SPECIAL NOTICE REGARDING PUBLIC PARTICIPATION AT MEETINGS OF THE WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA (WRD)

The President of the United States and the Governor of California have both declared a State of Emergency as a result of the threat of the novel coronavirus COVID-19. The Governor issued Executive Order N-33-20 which orders all individuals to stay at home, and also Orders N-25-20 and N-29-20 which direct Californians to cancel all large gatherings and allows for teleconferencing of public meetings. Additionally, the County of Los Angeles Department of Public Health issued a Safer At Home Order on April 10, 2020 prohibiting public gatherings or events of any size, and on May 13, 2020 extended the order indefinitely.

To that end, no members of the public will be allowed to attend in-person meetings, including this meeting. Instead, members of the public may teleconference by calling toll free (800) 309-2350 and pressing 9215521# for the Conference ID. You will be able to listen to the meeting, but in order to speak and provide Public Comment, you will need to press Star 5 (*5) on your phone at which time you will be placed in the que for the eventual opportunity to be un-muted and speak. You may also provide your public comments via email to board@wrd.org up to one hour before the meeting is scheduled to begin.

Each item on the agenda, no matter how described, shall be deemed to include any appropriate motion, whether to adopt a minute motion, resolution, payment of any bill, approval of any matter or action, or any other action. Items listed as "For information" or "For discussion" may also be the subject of an "action" taken by the Board or a Committee at the same meeting.

1. DETERMINATION OF A QUORUM

2. PUBLIC COMMENT
   Pursuant to Government Code Section 54954.3
   To make a Public Comment, press Star 5 on your phone to be recognized, and when un-muted please announce your name and affiliation.
3. **APPROVE THE MINUTES OF APRIL 21, 2020**  
*Staff Recommendation*: The Water Resources Committee approves the minutes as submitted.

4. **OPERATIONS UPDATE**  
*Staff Recommendation*: The Water Resources Committee receive and file the report.

5. **GROUNDWATER BASIN UPDATE**  
*Staff Recommendation*: The Water Resources Committee receive and file the report.

6. **EXECUTE A LETTER AGREEMENT WITH THE SANITATION DISTRICTS OF LOS ANGELES COUNTY FOR A TIME EXTENSION ON THE USE OF WRD’S RECYCLED WATER ALLOTMENT AT THE LOS COYOTES WATER RECLAMATION PLANT**  
*Staff Recommendation*: The Water Resource Committee recommends that the Board of Directors authorize the General Manager to execute a letter agreement with the Sanitation Districts of Los Angeles County for a time extension on the use of WRD’s Recycled Water Allotment at the Los Coyotes Water Reclamation Plant.

7. **MEMORANDUM OF UNDERSTANDING CONCERNING DEVELOPMENT OF A JOINT POWERS AUTHORITY FOR JOINT REPLENISHMENT FACILITY OPERATIONS BY AND BETWEEN THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND THE WATER REPLENISHMENT DISTRICT**  
*Staff Recommendation*: The Water Resources Committee recommends that the Board of Directors approve a Memorandum of Understanding concerning development of a Joint Powers Authority for Joint Replenishment Facility Operations by and between the Los Angeles County Flood Control District and the Water Replenishment District.

8. **WATER RESOURCES PLANNING UPDATE**  
*Staff Recommendation*: For discussion and possible action.

9. **DEPARTMENT REPORT**  
*Staff Recommendation*: For discussion and possible action.

10. **DIRECTORS’ REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF**

11. **ADJOURNMENT**  
*The Committee will adjourn to the next meeting currently scheduled on June 16, 2020, at 11:00 AM.*
In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the meeting, please contact Deputy Secretary at (562) 921-5521 for assistance to enable the District to make reasonable accommodations.

All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 4040 Paramount Boulevard, Lakewood, California 90712.

Agendas are available at the District’s website, www.wrd.org.

EXHAUSTION OF ADMINISTRATIVE REMEDIES – If you challenge a District action in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the Deputy Secretary at, or prior to, the public hearing. Any written correspondence delivered to the District office before the District’s final action on a matter will become a part of the administrative record.
DATE: MAY 19, 2020
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: APPROVE THE MINUTES OF APRIL 21, 2020

SUMMARY
A meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on April 21, 2020 at 11:04 AM at the District Office, 4040 Paramount Boulevard, Lakewood, California 90712. Committee Chair Robert Katherman called the meeting to order and presided thereafter.

FISCAL IMPACT
None

STAFF RECOMMENDATION
The Water Resources Committee approves the minutes as submitted.
A meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on April 21, 2020 at 11:04 AM at the District Office, 4040 Paramount Boulevard, Lakewood, California 90712. Committee Chair Robert Katherman called the meeting to order and presided thereafter.

1. DETERMINATION OF A QUORUM
   A quorum was present, which included:
   Committee: Committee Chair Robert Katherman; Director John D.S. Allen
   Staff: Dina Hidalgo; Angie Mancillas; Brian Partington; Kimberly Babescu;
   Tenisha Simeon; Lawrence Chiu; Ted Johnson; Rob Beste; Tom
   Knoell; Diane Gatza; Melody Wu; David Alvarez; Eric Owens; Evan
   Lue; Everett Ferguson; Lyndsey Bloxom; Stephanie Cuevas; Ester
   Rojas
   Public: None

2. PUBLIC COMMENT
   Pursuant to Government Code Section 54954.3
   None

3. APPROVE THE MINUTES OF FEBRUARY 18, 2020
   Staff Recommendation: The Water Resources Committee approve as submitted.

<table>
<thead>
<tr>
<th>First:</th>
<th>Allen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second:</td>
<td>Katherman</td>
</tr>
<tr>
<td>Discussion:</td>
<td>None</td>
</tr>
<tr>
<td>Vote:</td>
<td>Katherman, Yes; Allen, Yes</td>
</tr>
<tr>
<td>Result:</td>
<td>ITEM 3 PASSED</td>
</tr>
</tbody>
</table>

4. OPERATIONS UPDATE
   Senior Hydrogeologist Everett Ferguson provided an update on this item. Mr.
   Ferguson answered questions about the amount of potable and recycled water
   distribution in the Dominguez Gap Barrier.

   Director Katherman requested that staff present an update on discussions with the
   City of Los Angeles at the next meeting.

   Water Operations Superintendent Tom Knoell also presented on this item and
   provided an update on the Torrance Desalter, Leo J. Vander Lans and Albert Robles
   Center.

   The Water Resources Committee received and filed the report.
5. GROUNDWATER BASIN UPDATE
Mr. Ferguson elaborated on this item and answered questions regarding the percent of imported and recycled water in the basins.

Manager of Engineering Eric Owens also provided clarification on the status of the City of Lomita’s agreement for the Safe Drinking Water Program and indicated that the agreement is pending the City’s approval.

The Water Resources Committee received and filed the report.

6. WATER RESOURCES PLANNING UPDATE
Manager of Water Resources Diane Gatza presented an overview of this report and presented on the following items. Discussion followed.

1) Rob Beste will be presenting at the City of Lomita for the Regional Brackish Program.
2) An update was provided regarding Measure W. There is uncertainty of how Measure W will continue in light of the economic impact due to COVID-19.
3) PFAS workshop/conference for pumpers is scheduled for April 29, 2020.
4) Staff is working with West Basin staff to increase recycled water levels in the west coast basin.
7. **DEPARTMENT REPORT**
   None

8. **DIRECTORS' REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF**
   None

9. **ADJOURNMENT**
   There being no further business to come before the Committee, the meeting was adjourned at 11:49 AM to the next meeting scheduled for May 19, 2020 at 11:00 AM.

   ________________
   Chair

   **ATTEST:**

   ________________
   Member

   Approved in minutes of:

   ______________
DATE: MAY 19, 2020

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: OPERATIONS UPDATE

SUMMARY

The intent of the Operations Update staff report/agenda item is to inform and update members of the Water Resources Committee on a regular and reoccurring basis about operational matters, technical issues and various multi-agency strategies in regards to all of the District’s current and planned operational facilities.

Terminal Island Water Reclamation Plant (TIWRP) / Dominguez Gap Barrier Project (DGBP) Update

Highlights from the TIWRP / DGBP include the following:

- LASAN is continuing to work with the County to maximize flows to the barrier, where current demand is 6.8 million gallons per day (MGD).
- TITP is delivering 5.2-5.4 MGD due the barrier pressure issues. LASAN/LADWP is trouble shooting this issue. LADWP completed their Hydraulic Modeling task to evaluate the delivery pressures after correcting errors in the previous version and submitted those results to LACDPW.
- TITP operations staff completed the membrane replacement work.
- WRD is working to provide the updated groundwater model for the five-year Engineering Report.
- WRD staff is continuing to lead bimonthly operations conference calls with LADWP and LASAN.
- WRD staff is engaged in ongoing discussions with LADWP regarding TITP online time and delivery rate and the two pending construction projects (2nd Gap Connection and Potable Backup System).
Torrance Desalter Update

Highlights from the Torrance Desalter include the following:

- Production totaled approximately 303 acre-feet (AF) (99 million gallons) for the month of April 2020 (vs. 152 AF [49.4 million gallons] for March 2020). The plant was partially offline on April 21 and April 28 for cleaning of the RO membranes.
- Torrance Water Department staff continue to exercise precautionary measures related to COVID-19 – limiting Desalter access to essential staff. Immediate staff operating the Desalter have continued to remain safe and have not been impacted.

Leo J. Vander Lans Facility (LVL) Update

Highlights from the LVL facility include the following:

- Operations continue to be transitioned from the Long Beach Water Department (LBWD) to PERC Water. On May 1, 2020 PERC Water assumed the lead role in operating the facility, with the LBWD acting in a support capacity. LBWD continues to act as the lead for Sampling and Reporting activities. PERC Water continues to shadow the LBWD and will be assuming the lead role on these activities as the transition progresses.
- WRD continues the process of onboarding permits and contracts which have been maintained by the LBWD. The latest includes the fire and hazardous materials permits and trash services.
- Staff from both LBWD and PERC Water continue to exercise precautionary measures related to COVID-19 and have not been impacted at this time.
- During the month of April 2020, 398.3 AF of water supplied the barrier – 295.4 AF from the LB07A connection and 102.9 AF from LVL. Current Alamitos barrier injection is approximately 2.42 MGD.

Albert Robles Center (ARC) Update

Highlights from the ARC facility include the following:

- During the month of April 2020, production totaled approximately 925.8 acre-feet (AF) (302 million gallons) vs. 890AF (290 million gallons) in March. Production summary is as follows:
  - Annual target: 10,000AF
  - Production to date: 3,547.6AF
  - Balance: 6,452.4AF
- The treatment plant experienced an operator-initiated shutdown from April 11, 2020 to April 13, 2020. The County provided notification that flows were going to be diverted to the San Gabriel River Discharge 001 – concrete portion of the river,
as a result of the spreading grounds being full. Upon notification by the County, ARC production resumed at 05:15pm on 04/13, with flows again being sent to the spreading grounds.

- ARC site continues to operate with limited staff performing basic functions during COVID-19. Operations staff continue to exercise precautionary measures and have not been impacted at this time.

**FISCAL IMPACT**

None

**STAFF RECOMMENDATION**

The Water Resources Committee receive and file the report.
DATE: MAY 19, 2020
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: GROUNDWATER BASIN UPDATE

SUMMARY
Staff monitors groundwater conditions in its service area throughout the year. A summary of the latest information is attached.

FISCAL IMPACT
None

STAFF RECOMMENDATION
The Water Resources Committee receive and file the report.
GROUNDWATER BASINS AT A GLANCE*

* - Preliminary numbers, subject to change.
SUMMARY

Staff monitors groundwater conditions in its service area throughout the year. A summary of the latest information is presented below.

Precipitation (Oct. 1, 2019 – Apr. 29, 2020)

The WRD precipitation index reports that for the 2019-20 Water Year, there has been 14.43 inches of rainfall. The normal rainfall for this time period is 14.91 inches, so the District is 97% of normal. As of April 28, 2020, the U.S. Drought Monitor is reporting 58% of the State is abnormally dry, 42% under moderate drought, 20% under severe, and 5% under extreme drought conditions.

Snowpack (Snow Water Content [SWE] as of April 30, 2020)

In 1929, the State established the California Cooperative Snow Surveys Program with the California Department of Water Resources as the coordinator. Today, over 50 state, national, and private agencies collaborate in collecting snow data from over 300 snow courses with more than 60 of the courses being the original courses established in the early 1900’s. The average snow course is 1,000 feet long and consist of about 10 sample points. Anywhere from two to six courses are measured per day depending on weather and access method.

The snow survey is completed using a snow sampling tube equipped with a cutter on the end that is driven through the snow measuring the depth and obtaining a snow core. The snow core is then weighed and the snow water content (or snow water equivalent) calculated. The surveys are completed throughout the winter by returning to the same sample points throughout the season to observe the changing conditions. From February through May the data is used by the State to forecast snow melt runoff. Many snow courses are only measured on or around April 1st, and since it is presumed that the snow accumulates up to April 1st and melts thereafter, April 1st is the benchmark for historic data comparisons.
Northern Sierra Nevada – 5.8 in., 27% of normal to date and 20% of April 1st average
Central Sierra Nevada – 10.1 in., 41% of normal to date and 34% of April 1st average
Southern Sierra Nevada – 8.5 in., 41% of normal to date and 33% of April 1st average
Statewide Summary – 8.4 in., 39% of normal to date and 27% of April 1st average

This is likely the last Department of Water Resources - Snow Pack Report for Water Year 2019-20.
Reservoirs (as of May 3, 2020)

For all 16 reservoirs reported monthly to the committee, water levels have increased in 11 reservoirs compared to levels recorded in the previous month and decreased in 5 reservoirs. The largest increase (0.24 million acre feet) occurred at Lake Folsom. The smallest increase (<0.00 million acre feet) occurred at Lake Perris, Lake Silverwood, and Lake Powell. The largest decrease (-0.16 million acre feet) occurred at Lake Mead. The smallest decrease (<0.00 million acre feet) occurred at San Luis Reservoir.

These 16 reservoirs are at 55% capacity (39.97 million acre feet) which is up 0.49 million acre feet from the prior month (0.67 million acre feet State Water Project [SWP] and -0.18 million acre feet Colorado River Aqueduct [CRA]).

![Charts illustrating Lake Shasta (SHA) is currently draining and Lake Oroville (ORO) is currently filling.](image)

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>Capacity</th>
<th>Storage</th>
<th>% Full</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trinity Lake</td>
<td>2.45</td>
<td>1.91</td>
<td>78%</td>
<td>-0.07</td>
</tr>
<tr>
<td>Lake Shasta</td>
<td>4.55</td>
<td>3.67</td>
<td>81%</td>
<td>0.08</td>
</tr>
<tr>
<td>Lake Oroville</td>
<td>3.54</td>
<td>2.48</td>
<td>70%</td>
<td>0.20</td>
</tr>
<tr>
<td>Folsom Lake</td>
<td>0.98</td>
<td>0.71</td>
<td>73%</td>
<td>0.24</td>
</tr>
<tr>
<td>New Melones</td>
<td>2.40</td>
<td>1.90</td>
<td>79%</td>
<td>0.01</td>
</tr>
<tr>
<td>Don Pedro</td>
<td>2.03</td>
<td>1.72</td>
<td>85%</td>
<td>0.07</td>
</tr>
<tr>
<td>Lake McClure</td>
<td>1.02</td>
<td>0.74</td>
<td>72%</td>
<td>0.11</td>
</tr>
<tr>
<td>San Luis</td>
<td>2.04</td>
<td>1.50</td>
<td>73%</td>
<td>0.00</td>
</tr>
<tr>
<td>Millerton Lake</td>
<td>0.52</td>
<td>0.15</td>
<td>29%</td>
<td>-0.13</td>
</tr>
<tr>
<td>Pine Flat</td>
<td>1.00</td>
<td>0.70</td>
<td>70%</td>
<td>0.16</td>
</tr>
<tr>
<td>Castaic Lake</td>
<td>0.33</td>
<td>0.29</td>
<td>90%</td>
<td>0.01</td>
</tr>
<tr>
<td>Lake Perris</td>
<td>0.13</td>
<td>0.12</td>
<td>93%</td>
<td>0.00</td>
</tr>
<tr>
<td>Silverwood</td>
<td>0.08</td>
<td>0.07</td>
<td>87%</td>
<td>0.00</td>
</tr>
</tbody>
</table>

MWD Reservoirs (CRA)

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>Capacity</th>
<th>Storage</th>
<th>% Full</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powell</td>
<td>24.32</td>
<td>11.86</td>
<td>49%</td>
<td>0.00</td>
</tr>
<tr>
<td>Mead</td>
<td>26.12</td>
<td>11.39</td>
<td>44%</td>
<td>-0.16</td>
</tr>
<tr>
<td>DVL</td>
<td>0.81</td>
<td>0.76</td>
<td>94%</td>
<td>-0.01</td>
</tr>
</tbody>
</table>

Black Text - Decrease or no change in storage since the last report.
Green Text - Increase in storage since the last report.
Groundwater Levels (through April 24, 2020)

Groundwater levels in key monitoring wells are shown in the hydrographs below.

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Since Last Report</th>
<th>Since Same Time the Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Basin Key Well 1601T</td>
<td>Increased 8.4 feet</td>
<td>Decreased 4.2 feet</td>
</tr>
<tr>
<td>Central Basin Key Well Long Beach #6_4</td>
<td>Increased 10.3 feet</td>
<td>Increased 77.7 feet</td>
</tr>
<tr>
<td>West Coast Basin Key Well Lawndale #1_4</td>
<td>Decreased 2.1 feet</td>
<td>Increased 1.4 feet</td>
</tr>
<tr>
<td>West Coast Basin Key Well Carson #1_2</td>
<td>Increased 2.1 foot</td>
<td>Increased 0.7 feet</td>
</tr>
</tbody>
</table>

Bold indicates a change in direction (decreasing or increasing) since the last report.

Central Basin Key Well 1601T is between the two spreading grounds and rises rapidly with rainfall and replenishment but falls sharply during dry spells and lack of replenishment.
Optimum and Minimum Groundwater Quantity

In response to a 2002 State audit of the District’s activities, the Board of Directors adopted an Optimum and Minimum Quantity for groundwater in the District to define an appropriate operating range that would sustain adjudicated pumping rights, leave room for future storage projects, and identify a lower limit. The amounts are based on the accumulated overdraft concept, which the District tracks year by year based on changes in groundwater storage.

After an extensive review of over 70 years of water level fluctuations and discussions with the Board and pumping community, Water Year 1999/2000 was recognized as a representative year for the Optimum Quantity, which equated to an accumulated overdraft of approximately 612,000 acre feet. The Minimum Quantity was defined as an accumulated overdraft of 900,000 acre feet, which allowed an operating range from 0 acre feet (minimum) to 288,000 acre feet (optimum). The Board also adopted a policy to make-up the groundwater deficit should the accumulated overdraft fall too far below the Optimum Quantity.

The Accumulated Overdraft as of April 29, 2020, has been estimated at 725,895 acre feet (subject to change), which is 174,105 acre feet above the Minimum Groundwater Quantity and 113,895 acre feet below the Optimum Quantity. The Basin is at 60% of Optimum Quantity which is up 11% from last month.
Montebello Forebay Spreading Grounds (July 2019 - March 2020)

The following Chart shows the preliminary spreading grounds replenishment water:

For the Fiscal Year 2019-20, no imported water purchases are anticipated.

Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACDPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total waters conserved at the spreading grounds less the imported and recycled water deliveries. For the first nine months of the 2019-20 Fiscal Year, approximately 29,251 acre feet of local water capture has been reported by the LACDPW.
Preliminary numbers for the first nine months of the 2019-20 Fiscal Year show that approximately 43,630 acre feet of recycled water has been recharged with 5,905 AF consisting of advanced treated water from the ARC AWTF. Presuming the advanced treated water as “Null Water” the 120-month running average of recycled water contribution in the Montebello Forebay is 38.4% and the regulatory maximum is 45%, with additional studies and monitoring being required once 40% is reached.

**Tertiary Recycle Water Permit Update**

Following extensive collaboration between the District and LACSD, the Workplan required by the SWRCB - Division of Drinking Water and LARWQCB regarding the use of tertiary treated recycled water at the Montebello Forebay Spreading Grounds was submitted on November 18, 2019.

Upon receipt of comments on the Workplan from the State of California, the District and LACSD will proceed with finalizing the preparation and submittal of the new Title 22 Engineering Report. In anticipation of receiving comments in late spring 2020, staff is continuing to work with the LACSD on developing the known components of the new Title 22 Engineering Report. A preliminary scoping meeting and a follow-up strategy meeting were held on November 26, 2019, and January 27, 2020, respectively. Staff is working collaboratively with the LACSD preparing draft sections of the engineering report.
Seawater Barrier Well Injection and Replenishment (July 2019 - March 2020)

The following Chart shows the barrier water injection:

Preliminary numbers for the first nine months of the 2019-20 Fiscal Year show that the West Coast Barrier has used 12,404 acre feet of the total 17,000 acre feet planned for injection, 73% of total for the Fiscal Year. The Dominguez Gap Barrier used 5,832 acre feet of the total 7,500 acre feet planned for injection, 78% of the total for the Fiscal Year. The Alamitos Barrier, on the WRD side, used 2,658 acre feet of the total 4,500 acre feet planned for injection, 59% of the total for the Fiscal Year.
Assessible Pumping (Fiscal Year July 2019 – March 2020)

Preliminary numbers for groundwater production in the District for the Fiscal Year 2019-20 (July 2019 – March 2020) indicate pumping in the Central Basin was down 1,929 acre feet from the same time of the previous fiscal year (-1.5%) and the West Coast Basin pumping was 128 acre feet lower than the previous fiscal year (-0.6%). The total pumping is 149,759 acre feet compared to 151,817 acre feet during the same time the previous year for a decrease of 2,057 acre feet, or -1.4%. The current pumping data do not include eight Central Basin pumpers and two West Coast Basin pumpers who have not yet reported.
Preliminary numbers indicate 149,760 acre feet have been pumped this fiscal year and is 5.4% below the projected goal of 158,366 acre feet (or -8,606 acre feet). Monthly actual production versus 6-year average monthly production projections (FY 2014 through 2019) are included in the chart below.
For the Fiscal Year 2019-20 (July 2019 – March 2020), staff has tracked the production trends of the top five (5) producing pumpers and the bottom five (5) producing pumpers in each basin. These pumpers are identified in the following tables and are based on the change in volume (in acre feet) compared to the same time period for the previous Fiscal Year.

### Production Trends - Central Basin

<table>
<thead>
<tr>
<th>Top 5 Producing by Volume (AF)</th>
<th>July 2018 - March 2019</th>
<th>July 2019 - March 2020</th>
<th>Difference</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whittier, City of</td>
<td>3,101.67</td>
<td>4,220.52</td>
<td>1,118.85</td>
<td>36.07%</td>
</tr>
<tr>
<td>Cerritos, City of</td>
<td>5,907.68</td>
<td>6,444.67</td>
<td>536.99</td>
<td>9.09%</td>
</tr>
<tr>
<td>Paramount, City of</td>
<td>3,683.45</td>
<td>4,209.14</td>
<td>525.69</td>
<td>14.27%</td>
</tr>
<tr>
<td>California Water Service Company (East LA)</td>
<td>6,695.50</td>
<td>7,136.59</td>
<td>441.09</td>
<td>6.59%</td>
</tr>
<tr>
<td>Lynwood, City of</td>
<td>3,627.36</td>
<td>3,902.39</td>
<td>275.03</td>
<td>7.58%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bottom 5 Producing by Volume (AF)</th>
<th>July 2018 - March 2019</th>
<th>July 2019 - March 2020</th>
<th>Difference</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lakewood, City of Water Department</td>
<td>7,188.03</td>
<td>4,978.40</td>
<td>-2,209.63</td>
<td>-30.74%</td>
</tr>
<tr>
<td>Golden State Water Company</td>
<td>15,979.24</td>
<td>14,960.92</td>
<td>-1,018.32</td>
<td>-6.37%</td>
</tr>
<tr>
<td>Long Beach, City of</td>
<td>20,090.81</td>
<td>19,134.37</td>
<td>-956.44</td>
<td>-4.76%</td>
</tr>
<tr>
<td>San Gabriel Valley Water Company</td>
<td>1,266.37</td>
<td>695.07</td>
<td>-571.30</td>
<td>-45.11%</td>
</tr>
<tr>
<td>Bell Gardens, City of</td>
<td>769.00</td>
<td>362.56</td>
<td>-406.44</td>
<td>-52.85%</td>
</tr>
</tbody>
</table>

### Production Trends – West Coast Basin

<table>
<thead>
<tr>
<th>Top 5 Producing by Volume (AF)</th>
<th>July 2018 - March 2019</th>
<th>July 2019 - March 2020</th>
<th>Difference</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inglewood, City of</td>
<td>910.52</td>
<td>2,650.33</td>
<td>1,739.81</td>
<td>191.08%</td>
</tr>
<tr>
<td>Phillips 66 Company</td>
<td>3,312.93</td>
<td>3,949.76</td>
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DATE: MAY 19, 2020

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: EXECUTE A LETTER AGREEMENT WITH THE SANITATION DISTRICTS OF LOS ANGELES COUNTY FOR A TIME EXTENSION ON THE USE OF WRD'S RECYCLED WATER ALLOTMENT AT THE LOS COYOTES WATER RECLAMATION PLANT

SUMMARY
WRD has a 10,000 acre-foot a year allotment for recycled water from the Sanitation Districts of Los Angeles County’s (LACSD) Los Coyotes Water Reclamation Plant (LCWRP). This allotment was formalized in the Recycled Water Purchase Agreement with WRD and LACSD in 2013. To date, WRD’s LCWRP allotment has gone unutilized and per the agreement, WRD’s ability to use this allotment has now expired. WRD staff and LACSD staff have been working together to extend this term per the existing agreement term stating the ability to extend through a signed letter between both the LACSD Chief Engineer and the WRD General Manager. Both agencies have agreed to a five (5) year time extension for WRD to begin making investments to utilize this allotment and secure it into perpetuity. The allotment capacity will remain unchanged at 10,000 AFY at this point. WRD and LACSD will work together to determine if additional flow can be made available to WRD when the investments in utilizing the allotment are made. This allotment could be used for a potential back up recycled water supply to the Leo J Vander Lans (LVL) facility or a potential expansion of the facility.

FISCAL IMPACT
None

STAFF RECOMMENDATION
The Water Resource Committee recommends that the Board of Directors authorize the General Manager to execute a letter agreement with the Sanitation Districts of Los Angeles County for a time extension on the use of WRD's Recycled Water Allotment at the Los Coyotes Water Reclamation Plant.
Dear Mr. Whitaker:

**Extension of Leo J. Vander Lans Advanced Water Treatment Facility Recycled Water Allotment Deadlines**

The Agreement for Purchase and Sale of Recycled Water (Agreement) between Sanitation District No. 2 of Los Angeles County (District) and the Water Replenishment District of Southern California (WRD) dated July 1, 2013 provides allotments of treated wastewater from the District’s San Jose Creek, Whittier Narrows, Pomona, and Los Coyotes Water Reclamation Plants (WRPs) to WRD for multiple groundwater recharge uses.

The Agreement includes an allotment of 10,000 acre-feet per year (AFY) from the Los Coyotes WRP for use at WRD’s Leo J. Vander Lans Advanced Water Treatment Facility (LVL AWTF) for advanced treatment and use at the Alamitos Seawater Intrusion Barrier (LVL Allotment). The Agreement contains provisions (in Section 6.3.A) that subject the LVL Allotment to WRD meeting certain project milestones to enable use of recycled water from the Los Coyotes WRP at the LVL AWTF. The Agreement specifies dates by which WRD must award the contracts necessary to construct treatment and conveyance facilities needed to utilize the full LVL Allotment, and dates by which WRD must commence full operation of the expanded facility, or the LVL Allotment would be eliminated. The Agreement also states (in Section 6.6.B.iv) that the LVL Allotment will be adjusted every five years beginning five years after the commencement of full operation of the expanded facility, or five years after the deadline for commencement of full operation of the expanded facility in Section 6.3.A.

The Agreement provides that these time frames may be extended by mutual agreement of the District’s Chief Engineer and the General Manager of WRD. Although WRD did not award the contracts to construct the conveyance facilities necessary to utilize the LVL Allotment by the deadlines in the Agreement, WRD did expand the capacity of the LVL ATF from 3 Million Gallons per Day (MGD) to 8 MGD, which is adequate to utilize the full LVL Allotment. WRD has expressed interest in using the LVL Allotment in the future for its intended purposes, which are seawater intrusion abatement, replenishment of the groundwater basin, and regional water resiliency through groundwater storage. This use would be beneficial to regional water supplies and is consistent with the District’s commitment to maximizing recycled water use. As such, the District proposes extending the deadlines in Sections 6.3.A and 6.6.B.iv of the Agreement as follows:

1. WRD must award all the contracts necessary to construct treatment and conveyance facilities needed to utilize the full LVL Allotment by January 1, 2025 or the LVL Allotment will be eliminated, unless extended by mutual written agreement of the District’s Chief Engineer and the General Manager of WRD.
2. WRD must commence full operation of the expanded facility infrastructure by January 1, 2028 or the LVL Allotment will be eliminated, unless extended by mutual written agreement of the District’s Chief Engineer and the General Manager of WRD.

3. The LVL Allotment will be adjusted every five years according to Section 6.6.B.iv of the Agreement, beginning five years after commencement of full operation of the expanded facility infrastructure or January 1, 2028, whichever comes first.

If you have any questions or require additional information, please contact Erika Bensch at (562) 908-4288, extension 2836.

Very truly yours,

Robert C. Ferrante
Chief Engineer

The Parties to the Agreement hereby mutually agree with the extension of project deadlines for the LVL Allotment as specifically described in this letter as a Modification to the terms of the Agreement pursuant to Section 17 of the Agreement.

Signature: ___________________________________ Date: ________________________
Robert C. Ferrante
Chief Engineer and General Manager
Sanitation Districts of Los Angeles County

Signature: ___________________________________ Date:__________________________
Robb Whitaker
General Manager
Water Replenishment District of Southern California
MEMORANDUM
ITEM NO. 7

DATE: MAY 19, 2020
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: MEMORANDUM OF UNDERSTANDING CONCERNING DEVELOPMENT OF A JOINT POWERS AUTHORITY FOR JOINT REPLENISHMENT FACILITY OPERATIONS BY AND BETWEEN THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND THE WATER REPLENISHMENT DISTRICT

SUMMARY
WRD and the Los Angeles County Flood Control District (LACFCD) have had an over 60-year relationship regarding all replenishment infrastructure. LACFCD owns and operates the Montebello and Rio Hondo spreading grounds and all three seawater intrusion barriers within LA County. Although these facilities get water into the ground for both replenishment and flood control purposes there is a potential for our agencies to repurpose these facilities for future water resiliency in LA County. A repurposing of these facilities, cooperative operations and management along with the available storage in the groundwater basin could help both of our agencies to become more resilient.

LACFCD and WRD have been jointly working on developing a memorandum of understanding (MOU) for a future Joint Powers Authority (JPA) for both agencies to develop the future cooperative operations framework. Under this MOU LACFCD and WRD shall assign staff from each agency to work together on development of the framework for a potential Joint Power Authority (JPA) for Resiliency Facilities. Once the potential framework has been developed it will be brought before the WRD Board of Directors and LA County Board of Supervisors for approval and adoption. WRD staff anticipates this JPA development effort under the MOU to be complete by the end of 2020.

FISCAL IMPACT
None
STAFF RECOMMENDATION

The Water Resources Committee recommends that the Board of Directors approve the memorandum of understanding concerning development of a Joint Powers Authority for Joint Replenishment Facility Operations by and between the Los Angeles County Flood Control District and the Water Replenishment District.
MEMORANDUM OF UNDERSTANDING CONCERNING DEVELOPMENT OF A JOINT POWERS AUTHORITY FOR JOINT REPLENISHMENT FACILITY OPERATIONS BY AND BETWEEN THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND THE WATER REPLENISHMENT DISTRICT

This Memorandum of Understanding is entered as of DATE XX, 2020 by and among Los Angeles County Flood Control District (hereafter “LACFCD”) and Water Replenishment District of Southern California (hereafter “WRD”) or together as (“Parties”).

RECITALS

WHEREAS, the statutory objectives of the LACFCD are to provide for flood protection and water conservation within its boundaries; and

WHEREAS, LACFCD plans to prepare their region for the effects of a changing climate, including recurring cycles of drought, wildfire, and flooding; and

WHEREAS, LACFCD is implementing new strategies to capture billions of gallons of additional stormwater, increase sustainable water supplies, and leverage partnerships to optimize regional operations and maintenance of infrastructure; and

WHEREAS, LACFCD owns and operates several water conservation facilities within the WRD service area including the Rio Hondo and San Gabriel River Coastal Spreading Grounds, Alamitos Gap Barrier, Dominguez Gap Barrier and the West Coast Seawater Intrusion Barrier; and

WHEREAS, WRD’s mission is to provide, protect, and preserve safe and reliable high-quality groundwater in the Central and West Coast Basins, which provide half of the water supply to the residents of the WRD service area; and

WHEREAS, WRD is practically and financially responsible for providing replenishment water to the aforementioned groundwater replenishment facilities owned by LACFCD; and

WHEREAS, WRD owns and operates several facilities for the purposes of groundwater replenishment and protection such as the Leo J. Vander Lans Advanced Water Treatment Facility, the Albert Robles Center Advanced Water Treatment Facility and associated injection wells, and the Robert Goldsworthy Groundwater Desalter; and

WHEREAS, WRD has recently completed the Water Independence Now (WIN) effort to eliminate historical imported water demand for groundwater replenishment through increased production and capture of locally sustainable recycled water and stormwater; and
WHEREAS, WRD’s vision for the future is WIN4ALL, which will provide southern Los Angeles County with a locally sustainable and resilient water supply utilizing groundwater storage and underutilized water supplies; and

WHEREAS, LACPW and WRD have worked together collaboratively for 60 years to ensure reliable and safe groundwater supplies, while increasing regional sustainability through innovative utilization of recycled water supplies for groundwater recharge and maximizing effectiveness of stormwater capture methods; and

WHEREAS, LACFCD and WRD have significant overlapping service areas and shared goals to build upon the existing foundation of sustainable groundwater replenishment and provide regional water resiliency through continued innovation; and

WHEREAS, WRD proposes to collaborate with LACFCD to evaluate potential changes to the operations of the aforementioned replenishment facilities, specifically the San Gabriel and Rio Hondo Coastal Spreading Grounds, the Alamitos Gap Barrier, the Dominguez Gap Barrier, the West Coast Barrier, the Leo J. Vander Lans Advanced Water Treatment Facility, the Albert Robles Center Advanced Water Treatment Facility and associated injection wells, and the Robert Goldsworthy Desalter to expand the collective benefit of all facilities for the purposes of regional resiliency, while ensuring that the designed intent of all replenishment facilities is maintained (all facilities collectively hereafter “Resiliency Facilities”); and

WHEREAS, LACFCD and WRD will work collaboratively to explore the option of forming a Joint Powers Authority between the two agencies to cooperatively operate all Resiliency Facilities to maximize the use of locally sustainable water supplies such as storm water and recycled water and to ensure the integrity of ongoing flood control and groundwater replenishment activities is preserved.

NOW, THEREFORE, in consideration of the foregoing, it is understood and agreed between the Parties:

Section 1: LACFCD and WRD shall assign staff from each agency to work together on development of the framework for a potential Joint Power Authority (JPA) for Resiliency Facilities. Staff shall determine co-equal goals and a mission for the potential JPA. Staff will meet biweekly or otherwise as mutually agreed upon by the parties, to develop a JPA framework proposal for executive management consideration and legal review.
Section 2: LACFCD and WRD staff will work in good faith to develop the JPA framework and scope for proposal to executive management of both agencies as expeditiously as reasonably possible.

Section 3: LACFCD and WRD executive management shall meet bimonthly to review work complete and move the development of the JPA forward.

Section 4: All developed outcomes proposed through the JPA framework shall be mutually beneficial to both LACFCD and WRD and shall be for the purpose of collaboratively managing the Resiliency Facilities in an innovative fashion to preserve original design intent while expanding regional benefits to drought resiliency and local sustainability.

IN WITNESS WHEREOF, the Parties hereto have executed this Memorandum of Understanding by their duly authorized representatives.

APPROVED: APPROVED AS TO FORM:

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
By: Mark Pestrella, Executive Director
Date: xx

WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
By: Robb Whitaker, General Manager
Date: xx
DATE: MAY 19, 2020
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: WATER RESOURCES PLANNING UPDATE

SUMMARY

WRD’s Water Resources department works with the Board of Directors to develop the District’s strategic goals and initiatives and provides future program planning to ensure the necessary programs and projects are in-place to meet these goals. Included below is a summary of the major planning efforts currently in-progress and recent developments within those efforts. A verbal update will be provided on each item.

Regional Brackish Water Reclamation Program

The Water Replenishment District of Southern California (WRD) is responsible for managing and replenishing both the West Coast and Central Basins. Within the West Coast Basin a significant brackish water plume (approx. 600,000 acre feet) has been trapped due to seawater intrusion and the implementation of the West Coast Seawater Intrusion Barrier. WRD has initiated a Regional Brackish Water Reclamation Program (Program) to evaluate the feasibility of remediating the plume, working in partnership with six additional stakeholders pump and wholesale potable water within the basin. A feasibility study was initiated as the first step to determining how to remediate this plume to allow for future groundwater use within the basin.

WRD/LADWP Joint Los Angeles Basin Master Plan

The Water Replenishment District (WRD) and Los Angeles Department of Water and Power (LADWP) have been working collaboratively to establish a partnership on several projects and programs with overlapping objectives. Both staffs have been working towards mutually beneficial goals of utilizing all recycled water in the Los Angeles Basin as well as recharging and utilizing storage available in the West and Central groundwater basins in a sustainable fashion. A Memorandum of Understanding (MOU) has been developed and approved by LADWP and WRD to work together on a joint master plan effort.
In February 2019, WRD and LADWP initiated the joint master plan effort to evaluate the available assets within the greater Los Angeles area within the following three categories:

1. Sustainable recycled water supplies available;
2. Locations, infrastructure and treatment to get new recycled water into and out of the ground; and
3. Locations, infrastructure and treatment to get new water out of the ground.

Los Angeles County Sanitation Districts Joint Outfall System Water Recycling Fund – Potential Recycled Water Projects

Wastewater (i.e. brine) generated by the District’s Albert Robles Center AWTF in Pico Rivera will be discharged to the existing sewer system, which is owned and operated by the County Sanitation Districts of Los Angeles County (LACSD). Based on the brine flows and water quality anticipated from the AWTF, LACSD has calculated the sewer connection fee to be $15,863,166.90. In December 2018, LACSD modified their Connection Fee Ordinance to create a Joint Outfall System Water Recycling Fund where the entire connection fee paid by WRD will be used for projects that improve quantity and/or quality of recycled water for the benefit of WRD. WRD and LACSD staff have begun initial planning efforts to evaluate potential projects that would satisfy this description and provide benefit to both agencies and the region.

MWD/LACSD Regional Recycled Water Program

The Metropolitan Water District of Southern California (MWD) and the Sanitation Districts of Los Angeles County (LACSD) are currently completing a demonstration plant at the LACSD Joint Water Pollution Control Plant (JWPCP) wastewater treatment facility in Carson to produce 500,000 gallons per day, or 560 acre-feet per year, of advanced treated recycled water. The facility will generate information needed for future design and construction of a full-scale recycled water plant producing as much as 150 million gallons per day, or 168,000 acre-feet per year. Since 2016, WRD and MWD have worked collaboratively to evaluate potential groundwater recharge and storage opportunities that will take advantage of this new source of recycled water. MWD’s project concepts currently include conveyance of water from Carson to the Montebello Forebay for injection or spreading, to the West Coast Basin as a potential replenishment source for extraction associated with WRD’s Regional Brackish Water Reclamation Program, to the Long Beach area for injection and storage, to oil refineries, or possibly to water treatment facilities as a new raw water augmentation source.

Los Angeles County Safe, Clean Water Program

In 2018, Los Angeles County residents voted to approve Measure W – a public funding measure to capture, treat, reuse, and infiltrate stormwater. The County’s implementation of Measure W is the Safe, Clean Water Program. The Program will generate
approximately $300 million per year from a special parcel tax of 2.5 cents per square foot of impermeable surface area on private property in the Los Angeles County Flood Control District. WRD has been appointed to serve as the Groundwater Management Agency representative for three steering committees: Lower Los Angeles River, Lower San Gabriel River, and the South Santa Monica Bay Watershed Area.

WRD Per- and Polyfluoralkyl Substances (PFAS) Planning

WRD staff have initiated an internal PFAS Working Group that includes representatives from the Executive Management team, as well as the Hydrogeology, Engineering, Water Resources Planning, and External Affairs departments. The intent of the Working Group is to determine impacts to the groundwater basins and the pumping community that are related to PFAS and to develop solutions that address technical issues, determine funding needs and sources, and provide outreach support.

FISCAL IMPACT

None

STAFF RECOMMENDATION

For discussion and possible action.