

**BOARD OF DIRECTORS** 

**ROBERT E. ALVARADO** 

Division 1

JOE ESTES

Division 2

MARCO HENRIQUEZ

Division 3

KATHY MAC LAREN

Division 4

VINCENT DINO

Division 5

**DENNIS LaMOREAUX** General Manager

**ALESHIRE & WYNDER LLP** 

Attorneys



January 18, 2018

#### AGENDA FOR REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT to be held at the District's office at 2029 East Avenue Q, Palmdale **WEDNESDAY, JANUARY 24, 2018** 7:00 p.m.

NOTES: To comply with the Americans with Disabilities Act, to participate in any Board meeting please contact Dawn Deans at 661-947-4111 x1003 at least 48 hours prior to a Board meeting to inform us of your needs and to determine if accommodation is feasible.

Additionally, an interpreter will be made available to assist the public in making comments under Agenda Item No. 4 and any action items where public input is offered during the meeting if requested at least 48 hours before the meeting. Please call Dawn Deans at 661-947-4111 x1003 with your request. (PWD Rules and Regulations Section 4.03.1 (c))

Adicionalmente, un intérprete estará disponible para ayudar al público a hacer comentarios bajo la sección No. 4 en la agenda y cualquier elemento de acción donde se ofrece comentarios al público durante la reunión, siempre y cuando se solicite con 48 horas de anticipación de la junta directiva. Por favor de llamar Dawn Deans al 661-947-4111 x1003 con su solicitud. (PWD reglas y reglamentos sección 4.03.1 (c) )

Agenda item materials, as well as materials related to agenda items submitted after distribution of the agenda packets, are available for public review at the District's office located at 2029 East Avenue Q, Palmdale (Government Code Section 54957.5). Please call Dawn Deans at 661-947-4111 x1003 for public review of materials.

PUBLIC COMMENT GUIDELINES: The prescribed time limit per speaker is threeminutes. Please refrain from public displays or outbursts such as unsolicited applause, comments, or cheering. Any disruptive activities that substantially interfere with the ability of the District to carry out its meeting will not be permitted and offenders will be requested to leave the meeting. (PWD Rules and Regulations, Appendix DD, Sec. IV.A.)

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance to take action on any item.

- 1) Pledge of Allegiance/Moment of Silence.
- 2) Roll Call.
- 3) Adoption of Agenda.

- 4) Public comments for non-agenda items.
- 5) Presentations:
  - 5.1) Re-accreditation of Palmdale Water District's 'District of Distinction' Certification. (Chris Palmer, Public Affairs Field Coordinator, California Special Districts Association)
- 6) Action Items Consent Calendar (The public shall have an opportunity to comment on any action item on the Consent Calendar as the Consent Calendar is considered collectively by the Board of Directors prior to action being taken.)
  - 6.1) Approval of minutes of regular meeting held January 10, 2018.
  - 6.2) Payment of bills for January 24, 2018.
  - 6.3) Approval of reappointment of Helen Velador to Palmdale Recycled Water Authority Board. (No budget impact General Manager LaMoreaux)
  - 6.4) Approval of Resolution No. 18-1 being a Tax Sharing Resolution with Los Angeles County Sanitation Districts. (No budget impact General Manager LaMoreaux)
  - 6.5) Approve absence of Director Mac Laren from January 10, 2018 Regular Board Meeting due to a work commitment. (General Manager LaMoreaux)
- 7) Action Items Action Calendar (The public shall have an opportunity to comment on any action item as each item is considered by the Board of Directors prior to action being taken.)
  - 7.1) Consideration and possible action on reorganization of the Board of Directors for the positions of Vice President, Treasurer, and Secretary effective at the next Regular Board meeting. (Director Mac Laren)
  - 7.2) Consideration and possible action on contract with Black and Veatch Corporation to complete Emergency Action Plans and Flood Inundation Maps for Lake Palmdale and Littlerock Dam. (\$178,970.00 Budgeted Engineering/Grant Manager Riley)
  - 7.3) Consideration and possible action on Amendment No 1 with ESA Associates for the 2016 Water Master Plan Program Environmental Impact Report. (\$69,985.00 Budgeted–Engineering/Grant Manager Riley)
  - 7.4) Consideration and possible action on election of Special District Local Agency Formation Commission (LAFCO) Representative and Alternate Representative. (General Manager LaMoreaux)
  - 7.5) Consideration and possible action on outreach activities for 2018. (Public Affairs Director Shay)
    - a) Update on 100<sup>th</sup> year anniversary events.
    - b) Outreach plans for 2018.
    - c) Upcoming events.
    - d) Outreach recommendations from Directors.

- 7.6) Consideration and possible action on authorization of the following conferences, seminars, and training sessions for Board and staff attendance within budget amounts previously approved in the 2018 Budget:
  - a) Palmdale School District Foundation dinner to be held January 26, 2018 in Palmdale.
  - b) California Rural Water Association Distribution Certification Review Grades 1-2 to be held February 28 March 1, 2018 in Palmdale.
  - c) Antelope Valley Hispanic Chamber of Commerce 21<sup>st</sup> Gala Installation to be held March 23, 2018 at University of Antelope Valley.
  - d) P3 Water Summit 'Solving Water Challenges Through Partnerships' Conference to be held April 3 4, 2018 in San Diego.
  - e) Public Relations Society of America (PRSA) Western District Conference to be held April 12 13, 2018 in Denver, Colorado.
  - f) California Rural Water Association Water Treatment Certification Review Grades 1-2 to be held April 18 19, 2018 in Bakersfield.
- 8) Information Items:
  - 8.1) Reports of Directors:
    - a) Meetings/General Report.
    - b) Standing Committee/Assignment Reports (Chair):
      - 1) Antelope Valley State Water Contractors Association.
      - 2) Finance Committee.
  - 8.2) Report of General Manager.
    - a) January 2018 written report of activities through December 2017.
  - 8.3) Report of General Counsel.
- 9) Public comments on closed session agenda matters.
- 10) Break prior to closed session.
- 11) Closed session under:
  - 11.1) Conference with Legal Counsel Existing Litigation: A closed session will be held, pursuant to Government Code §54956.9 (d)(1), to confer with Special Litigation Counsel regarding existing litigation to which the District is a party. The title of such litigation is as follows: *Antelope Valley Ground Water Cases*.
- 12) Public report of any action taken in closed session.
- 13) Board members' requests for future agenda items.
- 14) Adjournment.

DENNIS D. LaMOREAUX, General Manager

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DDL/dd

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE:** January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

**FROM**: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 6.3 - APPROVAL OF REAPPOINTMENT OF

HELEN VELADOR TO PALMDALE RECYCLED WATER AUTHORITY BOARD. (NO BUDGET IMPACT - GENERAL MANAGER

LaMOREAUX)

#### **Recommendation:**

Staff recommends the Board reappoint Helen Velador to the Palmdale Recycled Water Authority Board as the fifth Board member.

#### **Background:**

The Palmdale Recycled Water Authority was formed by the Palmdale Water District and the City of Palmdale via the "Joint Exercise of Powers Agreement Creating the Palmdale Recycled Water Authority" in September 2012. That Agreement provides for the joint appointment by those two entities of a fifth Director in addition to two Directors from each of their respective Boards. All Authority Directors are appointed to serve one-year terms that may be renewed annually.

Helen Velador has served as the fifth Director of the Palmdale Recycled Water Authority since 2013. The Palmdale City Council considered and approved her reappointment at their January 4, 2017 City Council meeting.

#### **Strategic Plan Initiative/Mission Statement:**

This work is part of Strategic Initiative No. 5 – Regional Leadership. This item directly relates to the District's Mission Statement.

#### **Budget:**

This item will not affect the budget.

#### **Supporting Documents:**

None.

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE**: January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

FROM: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 6.4 - APPROVAL OF RESOLUTION NO. 18-1

BEING A TAX SHARING RESOLUTION WITH LOS ANGELES COUNTY SANITATION DISTRICTS. (NO BUDGET IMPACT -

GENERAL MANAGER LaMOREAUX)

#### **Recommendation:**

Staff recommends approval of Resolution No. 18-1 being a Tax Sharing Resolution with Los Angeles County Sanitation Districts.

#### **Alternative Options:**

The alternative option is to not approve Resolution No. 18-1.

#### **Impact of Taking No Action:**

The Los Angeles County Sanitation Districts will approve Resolution No. 18-1 without the Palmdale Water District's consent if no action is taken on this item.

#### **Background:**

Joint Tax Sharing Resolutions are presented for approval when an applicant requests annexation of their property into the Los Angeles County Sanitation Districts. The annexation process requires that a resolution for property tax revenue exchange be adopted by all affected local agencies before the annexation can be approved.

Joint Tax Sharing Resolutions have previously been approved by the Palmdale Water District and will continue to be presented to the Board for consideration as they are received.

#### **Strategic Plan Initiative/Mission Statement:**

This work is part of Strategic Initiative No. 3 – Systems Efficiency.

This item directly relates to the District's Mission Statement.

#### **Budget:**

Approval of Resolution No. 18-1 will have no impact on the budget.

#### **Supporting Documents:**

- August 1, 2017 letter from Los Angeles County Sanitation Districts regarding Tax Sharing Resolution, worksheet, and location map
- Resolution No. 18-1



## COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400 Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998 Telephone: (562) 699-7411, FAX: (562) 699-5422 www.lacsd.org

GRACE ROBINSON HYDE Chief Engineer and General Manager

January 3, 2018

General Annexation File

RECEIVED
JAN 0 8 2018

Mr. Dennis LaMoreaux, General Manager Palmdale Water District - Zone E 2029 East Avenue Q Palmdale, CA 93550

Dear Mr. LaMoreaux:

#### **Tax Sharing Resolutions**

Thank you for signing and returning the last joint resolutions that were submitted to your office for tax sharing purposes.

Enclosed, in triplicate, is a Joint Tax Sharing Resolution (resolution) involving your agency and others. The applicant has requested, in writing, annexation of his property into the County Sanitation District No. 14 (District) in order to receive off-site disposal of sewage. Please see the table below for the annexation and its associated project. The annexation process requires that a resolution for property tax revenue exchange be adopted by all the affected local agencies before an annexation may be approved. For any jurisdictional change which will result in a special district providing new service not previously provided to an area, the law requires the governing bodies of all local agencies that receive an apportionment of the property tax from the area to determine by resolution the amount of the annual tax increment to be transferred to the special district (Revenue and Taxation Code Section 99.01). Please note that by sharing the property tax increment with the District resulting from this annexation, your agency will not lose any existing ad valorem tax revenue it currently receives from the affected territory. Your agency would only be giving up a portion of the revenues it would receive on increased assessed valuation.

#### Annexation No.

#### Type of Project

14-428

one proposed gas station

Also, attached for the annexation is a copy of the applicable worksheet and map showing the location of the annexation. The worksheet lists the annual tax increment to be exchanged between your agency, other affected taxing entities, and the District. The tax sharing ratios listed in the worksheet were calculated by the County Auditor Controller by specific Tax Rate Area (TRA). For example, if the annexing territory were to lie within two separate TRAs, there would be a worksheet for each TRA. The Los Angeles County Chief Executive Office (CEO) is requiring the District to implement the worksheet for all District annexations in order to increase efficiency for the calculation of property tax sharing ratios.

The resolution is being distributed to all parties for signature in counterpart. Therefore, you will only be receiving a signature page for your agency. Enclosed are three sets of the resolution. One set of the resolution is for your files and the other two sets of the resolution need to be returned to the District. Please execute the two sets of the resolution and return them to the undersigned within 60 days as required by the Government Code. In addition, the County CEO's legal counsel is also requesting that the signature pages be properly executed from all affected agencies. Therefore, please have the Attest line signed by the appropriate person. Upon completion of the annexation process, your office will receive a fully executed copy of the tax sharing resolution for your files.

Your continued cooperation in this matter is very much appreciated. If you have any questions, please do not hesitate to call me at (562) 908-4288, extension 2708.

Very truly yours,

Donna J. Curry

Customer Service Specialist Facilities Planning Department

DC:

Enclosures:

14-428

1

#### PROPERTY TAX TRANSFER RESOLUTION WORKSHEET FISCAL YEAR 2017-2018

ANNEXATION TO:
ACCOUNT NUMBER:
TRA:
EFFECTIVE DATE:
ANNEXATION NUMBER:

CO.SANITATION DIST.NO 14 DEBT S. 066.45 08703 07/01/2018 428 PROJECT NAME: A-14-

PROJECT NAME: A-14-428

DISTRICT SHARE:

0.006360631

| ACCOUNT # | TAXING AGENCY                    | CURRENT<br>TAX SHARE | PERCENT                 | PROPOSED<br>DIST SHARE | ALLOCATED<br>SHARE | ADJUSTMENTS  | NET SHARE   |
|-----------|----------------------------------|----------------------|-------------------------|------------------------|--------------------|--------------|-------------|
| 001.05    | LOS ANGELES COUNTY GENERAL       | 0.256313695          | 25.6323 %               | 0.006360631            | 0.001630325        | -0.001678638 | 0.254635057 |
| 001.20    | L.A. COUNTY ACCUM CAP OUTLAY     | 0.000110821          | 0.0110 %                | 0.006360631            | 0.000000704        | 0.000000000  | 0.000110821 |
| 007.30    | CONSOL. FIRE PRO.DIST.OF L.A.CO. | 0.172140648          | 17.2140 %               | 0.006360631            | 0.001094923        | -0.001094923 | 0.171045725 |
| 007.31    | L A C FIRE-FFW                   | 0.007485042          | 0.7485 %                | 0.006360631            | 0.000047609        | 0.000000000  | 0.007485042 |
| 053.30    | ANTELOPE VY CEMETERY DISTRICT    | 0.001332080          | 0.1332 %                | 0.006360631            | 0.000008472        | -0.000008472 | 0.001323608 |
| 061.05    | ANTELOPE VLY MOSQ & VECTOR CONTR | 0.001038682          | 0.1038 %                | 0.006360631            | 0.000006606        | -0.000006606 | 0.001032076 |
| 068.05    | ANTELOPE VY RESOURCE CONSER DIST | 0.000928067          | 0.0928 %                | 0.006360631            | 0.000005903        | -0.000005903 | 0.000922164 |
| 225.01    | CITY-PALMDALE TD #1              | 0.066168600          | 6.6168 %                | 0.006360631            | 0.000420874        | -0.000420874 | 0.065747726 |
| 308.65    | PALMDALE WATER DIST ZONE E       | 0.043380779          | 4.3380 %                | 0.006360631            | 0.000275929        | -0.000275929 | 0.043104850 |
| 400.00    | EDUCATIONAL REV AUGMENTATION FD  | 0.076324121          | 7.6324 %                | 0.006360631            | 0.000485469        | EXEMPT       | 0.076324121 |
| 400.01    | EDUCATIONAL AUG FD IMPOUND       | 0.128611486          | 12.8611 %               | 0.006360631            | 0.000818050        | EXEMPT       | 0.128611486 |
| 400.15    | COUNTY SCHOOL SERVICES           | 0.001391624          | 0.1391 %                | 0.006360631            | 0.000008851        | EXEMPT       | 0.001391624 |
| 400.21    | CHILDREN'S INSTIL TUITION FUND   | 0.002760457          | 0.2760 %                | 0.006360631            | 0.000017558        | EXEMPT       | 0.002760457 |
| 689.01    | WESTSIDE UNION SCHOOL DISTRICT   | 0.062966522          | 6.2966 %                | 0.006360631            | 0.000400506        | EXEMPT       | 0.062966522 |
| 689.06    | CO.SCH.SERV.FD WESTSIDE UNION    | 0.008134129          | 0.8134 %                | 0.006360631            | 0.000051738        | EXEMPT       | 0.008134129 |
| 689.07    | DEV CTR HDCPD MINOR WESTSIDE UN  | 0.000845879          | 0.0845 %                | 0.006360631            | 0.000005380        | EXEMPT       | 0.000845879 |
| 717.02    | ANTELOPE VALLEY UNION HIGH SCH.  | 0.096013433          | 9.60 <mark>1</mark> 3 % | 0.006360631            | 0.000610706        | EXEMPT       | 0.096013433 |
| 717.06    | CO.SCH.SERV.FD ANTELOPE VALLEY   | 0.000352726          | 0.0352 %                | 0.006360631            | 0.000002243        | EXEMPT       | 0.000352726 |
| 717.07    | ANTELOPE VY.UN.HIELEM SCH FD.    | 0.047039496          | 4.7039 %                | 0.006360631            | 0.000299200        | EXEMPT       | 0.047039496 |

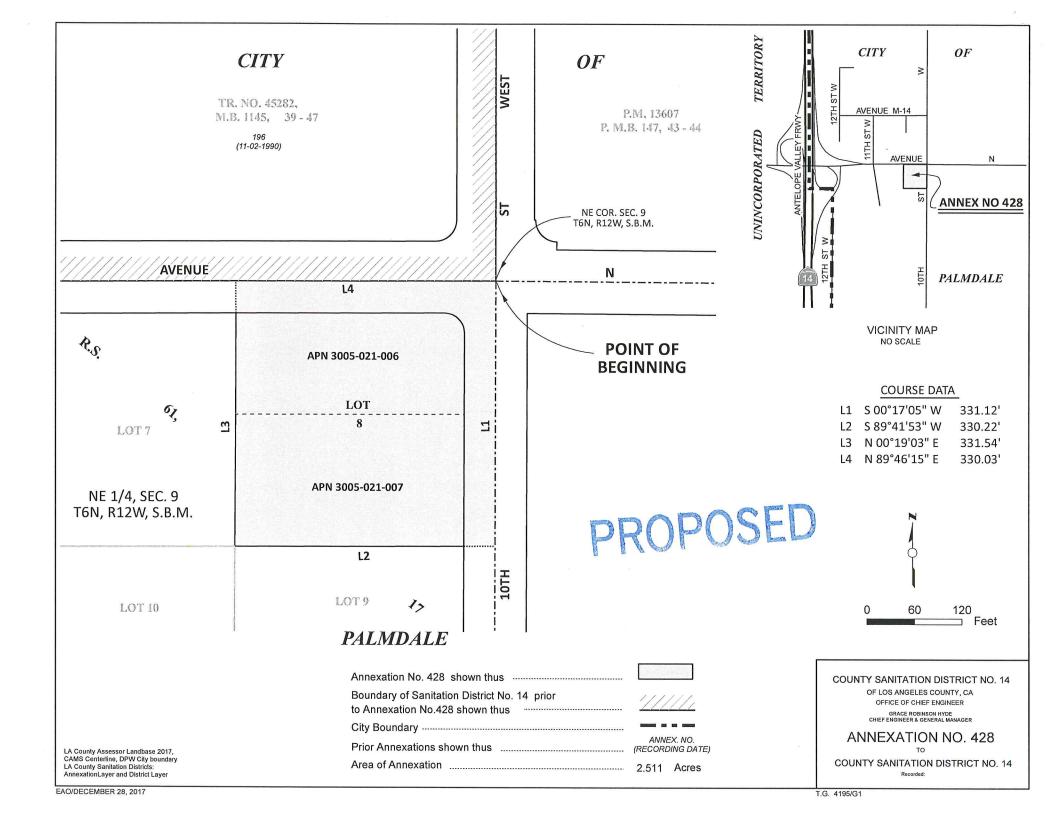
### PROPERTY TAX TRANSFER RESOLUTION WORKSHEET FISCAL YEAR 2017-2018

ANNEXATION NUMBER: 428

PROJECT NAME: A-14-428

TRA: 08703

| ACCOUNT # | TAXING AGENCY                    | CURRENT<br>TAX SHARE | PERCENT    | PROPOSED<br>DIST SHARE | ALLOCATED<br>SHARE | ADJUSTMENTS  | NET SHARE   |
|-----------|----------------------------------|----------------------|------------|------------------------|--------------------|--------------|-------------|
| 792.04    | ANTELOPE VY.JT. COMMUNITY COLL.  | 0.026661713          | 2.6661 %   | 0.006360631            | 0.000169585        | EXEMPT       | 0.026661713 |
|           |                                  |                      |            |                        |                    |              |             |
| ***066.45 | CO.SANITATION DIST.NO 14 DEBT S. | 0.000000000          | 0.0000 %   | 0.006360631            | 0.000000000        | 0.000000000  | 0.003491345 |
|           |                                  |                      |            |                        |                    |              |             |
|           | TOTAL:                           | 1.000000000          | 100.0000 % |                        | 0.006360631        | -0.003491345 | 1.000000000 |



#### RESOLUTION NO. 18-1

JOINT RESOLUTION OF THE BOARD OF SUPERVISORS OF THE COUNTY OF LOS ANGELES ACTING IN BEHALF OF

Los Angeles County General Fund

Los Angeles County Consolidated Fire Protection District

THE BOARD OF DIRECTORS OF COUNTY SANITATION DISTRICT NO. 14 OF LOS ANGELES COUNTY, AND THE GOVERNING BODIES OF

Antelope Valley Cemetery District

Antelope Valley Mosquito & Vector Control District

Antelope Valley Resource Conservation District

City of Palmdale

Palmdale Water District - Zone E

APPROVING AND ACCEPTING NEGOTIATED EXCHANGE OF PROPERTY TAX REVENUES RESULTING FROM ANNEXATION TO COUNTY SANITATION DISTRICT NO. 14.

#### "ANNEXATION NO. 428"

WHEREAS, pursuant to Section 99 and 99.01 of the Revenue and Taxation Code, prior to the effective date of any jurisdictional change which will result in a special district providing a new service, the governing bodies of all local agencies that receive an apportionment of the property tax from the area must determine the amount of property tax revenues from the annual tax increment to be exchanged between the affected agencies and approve and accept the negotiated exchange of property tax revenues by resolution; and

**WHEREAS**, the governing bodies of the agencies signatory hereto have made determinations of the amount of property tax revenues from the annual tax increments to be exchanged as a result of the annexation to County Sanitation District No. 14 entitled *Annexation No. 428*;

#### NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

- 1. The negotiated exchange of property tax revenues resulting from the annexation of territory to County Sanitation District No. 14 in the annexation entitled *Annexation No. 428* is approved and accepted.
- 2. For each fiscal year commencing on and after July 1, 2017 or after the effective date of this jurisdictional change, whichever is later, the County Auditor shall transfer to County Sanitation District No. 14 a total of 0.3491345 percent of the annual tax increment attributable to the land area encompassed within *Annexation No. 428* as shown on the attached Worksheet.
- 3. No additional transfer of property tax revenues shall be made from any other tax agencies to County Sanitation District No. 14 as a result of annexation entitled *Annexation No. 428*.

- 4. No transfer of property tax increments from properties within a community redevelopment project, which are legally committed to a Community Redevelopment Agency, shall be made during the period that such tax increment is legally committed for repayment of the redevelopment project costs.
- 5. If at any time after the effective date of this resolution, the calculations used herein to determine initial property tax transfers or the data used to perform those calculations are found to be incorrect thus producing an improper or inaccurate property tax transfer, the property tax transfer shall be recalculated and the corrected transfer shall be implemented for the next fiscal year, and any amounts of property tax received in excess of that which is proper shall be refunded to the appropriate agency.

The foregoing resolution was adopted by the Board of Supervisors of the County of Los Angeles, the Board of Directors of County Sanitation District No. 14 of Los Angeles County, and the governing bodies of Antelope Valley Cemetery District, Antelope Valley Mosquito & Vector Control District, Antelope Valley Resource Conservation District, City of Palmdale, and Palmdale Water District - Zone E, signatory hereto.

|             | PALMDALE WATER DISTRICT - ZONE E             |
|-------------|--|
|             | SIGNATURE                                    |
| A TOTAL CIT | Vincent Dino, President PRINT NAME AND TITLE |
| ATTEST:     | January 24, 2018                             |
| Secretary   | Date   |

(SIGNED IN COUNTERPART)

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE**: January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

FROM: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 6.5 – APPROVE ABSENCE OF DIRECTOR MAC

LAREN FROM JANUARY 10, 2018 BOARD MEETING DUE TO A

WORK COMMITMENT. (GENERAL MANAGER LaMOREAUX)

Director Mac Laren was absent from the January 10, 2018 Regular Board Meeting. Agenda Item No. 6.4 has been placed on the Consent Calendar to excuse this absence pursuant to Section 4.07.2 of the District's Rules and Regulations which states, "The Board shall excuse absences by approving such absences pursuant to the Consent Calendar at the next regular Board meeting."

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

DATE: January 17, 2018

To: BOARD OF DIRECTORS

Board Meeting

FROM: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 7.1 – CONSIDERATION AND POSSIBLE ACTION ON

REORGANIZATION OF THE BOARD OF DIRECTORS FOR THE POSITIONS OF VICE PRESIDENT, TREASURER, AND SECRETARY EFFECTIVE AT THE NEXT REGULAR BOARD MEETING. (DIRECTOR MAC LAREN)

#### **Recommendation:**

There is no staff recommendation on this item.

#### **Alternative Options:**

There are no alternative options.

#### **Impact of Taking No Action:**

Action is needed to complete the rotation of the Board officer positions.

#### **Background:**

Article 4 of the District's Rules and Regulations, Section 4.05: Officers of the Board – states that "...The Board shall reorganize every two years, following an election, unless by a 3/5 majority vote the Board approves a reorganization at any other time." Section 4.06: Duties and Obligations of the Officers of the Board – identifies Officer duties and titles.

At the December 13, 2017 Regular Board meeting, Director Dino was elected as President of the Board of Directors. Director Estes was absent from this meeting, and it was determined to table the election of the remaining officers until the next regular Board meeting so all Directors can be present. Director Mac Laren was absent from the January 10, 2018 regular Board meeting, and it was determined to continue this item to the next regular Board meeting so all Directors can be present.

#### **Strategic Plan Initiative/Mission Statement:**

This item is under Strategic Initiative No. 5 – Regional Leadership. This item directly relates to the District's Mission Statement.

#### **Budget:**

There is no budget impact from this item.

#### **Supporting Documents:**

- Rules and Regulations Article 4 Section 4.05
- Rules and Regulations Article 4 Section 4.06

#### 4.04: BOARD ACTION

The Board may take action by motion, resolution, or ordinance. The affirmative vote of at least three Directors is necessary for the Board to take action. Motions and resolutions may be adopted on voice and/or mechanical vote: roll call shall be taken if requested by any Director. Ordinances shall be adopted on roll call vote.

#### 4.04.1 ORDINANCES

Where an ordinance is required by statute, but the procedure for such ordinance is not specified, the Board shall adopt the ordinance as follows:

- 1. The ordinance shall be noticed as an agenda item for two consecutive Board meetings.
- 2. The ordinance shall be introduced and read at two consecutive regular Board meetings, unless a motion is made and passed by a majority of the Board to waive the full reading of the ordinance. The ordinance may then be passed.
- 3. The ordinance shall become effective thirty (30) days after adoption and shall be published, within ten (10) days after its adoption, at least once for one week in a newspaper of general circulation within the boundaries of the District.

#### 4.05: OFFICERS OF THE BOARD

The officers of the Board shall be:

President, Vice President, Treasurer and Secretary.

Officers shall be elected by a 3/5 majority vote of the Board. The Board shall reorganize every two years, following an election, unless by a 3/5 majority vote the Board approves a reorganization at any other time.

# 4.06: DUTIES AND OBLIGATIONS OF THE OFFICERS OF THE BOARD Other than the duties and obligations specified herein, Officers have no rights or authority different from any other Director. In addition to such duties and

obligations imposed by law or by action of the Board of Directors, the duties of each Officer of the District are as follows:

#### 4.06.1 PRESIDENT

Preside over and conduct all meetings of the Board, including maintaining the order pursuant to the Rules of Procedure adopted by the Board and attached hereto as Appendix DD, to ensure constructive and democratic meetings and help, not hinder, the business and discussion of the Board. Carry out the resolutions and orders of the Board. Exercise other powers and perform other duties as prescribed by the Board in these Rules and Regulations and by other actions of the Board. Approve Board meeting agendas. Form or disband standing and ad hoc committees. Appoint committee members and the Chair of said committees. Sign all agreements to which the District is a party. Write and/or sign correspondence on behalf of the Board and PWD. In the event of an early vacancy in the office of the Presidency, the Vice President shall become the President.

#### 4.06.2 VICE PRESIDENT

Exercise the duties of the President in the absence of, when the President stands down, or when the President is unable to continue in his/her duties due to any other reason. In the event of an early vacancy in the position of Vice-President, the Board shall elect a new Vice-President in accordance with Section 4.04.

#### 4.06.3 TREASURER

Sign financial instruments as required and serve as the Finance Committee Chair. The Treasurer acts on behalf of the President in the event the President and Vice President are unable to do so. In the event of an early vacancy in the position of Vice-President, the Board shall elect a new Vice-President in accordance with Section 4.04.

#### 4.06.4 SECRETARY

Certify or attest to the actions taken by the Board. Sign the minutes of the Board meeting following their approval. In the absence of the Secretary from any meeting at which the Board approved meeting minutes, the Vice President, if present, shall sign the meeting minutes. In the event of an early vacancy in the position of Vice-President, the Board shall elect a new Vice-President in accordance with Section 4.04.

#### 4.07: DUTIES AND OBLIGATIONS OF ALL DIRECTORS

#### 4.07.1 RULES OF CONDUCT

The Board of Directors shall at all times conduct itself in accordance with all applicable Federal laws, State laws, Local laws, and the District's Rules and Regulations. Any violations by any Director of these Rules and Regulations, including this Article IV, may be addressed by the Board in the manner provided in the Rules of Procedure, attached hereto as Appendix DD at Section IV.B.

#### 4.07.2 PARTICIPATION IN OFFICIAL BUSINESS OF THE DISTRICT

Directors shall attend all regular and special meetings of the Board, including committee meetings, and other functions as approved in advance by the Board of Directors, including those listed in Appendix V. In the event a Director is unable to attend a meeting, or other official business of the District, the Director shall notify the President and General Manager with as much advance notice as reasonably practical, or as soon thereafter as reasonably practical. Failure to attend four consecutive regular meetings of the Board, without the prior approval of the Board, will result in loss of committee assignments. The Board shall excuse absences by approving such absences pursuant to the Consent Calendar at the next regular Board meeting.

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE:** January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

FROM: Mr. James A. Riley, Engineering/Grant Manager

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 7.2 - CONSIDERATION AND POSSIBLE ACTION ON

CONTRACT WITH BLACK AND VEATCH CORPORATION TO COMPLETE EMERGENCY ACTION PLANS AND FLOOD INUNDATION MAPS FOR LAKE PALMDALE AND LITTLEROCK DAM (\$178,970.00 - BUDGETED -

ENGINEERING/GRANT MANAGER RILEY)

#### **Recommendation:**

Staff recommends that the Board:

Approve contract with Black and Veatch Corporation to complete emergency action plans and flood inundation maps for Lake Palmdale and Littlerock Dam in the amount of \$178,970.

#### **Alternative Options:**

The Board cannot approve the contract and instruct staff to complete the work.

#### **Impact of Taking No Action:**

Having staff complete the work will negatively impact other critical work of the engineering staff.

#### **Background:**

Newly enacted California state law that became effective July 1, 2017 requires dam owners to prepare an Emergency Action Plan (EAP) for their dams and critical appurtenant structures under certain conditions and in specific time limits (Water Code Sections 6160 and 6161). For dams meeting the "extremely high" hazard classification (Littlerock Dam), the EAP must be completed and submitted for the subject dam by January 1, 2018. For dams meeting the "high" hazard classification (Harold Dam), the EAP must be completed and submitted for the subject dam by January 1, 2019. Prior to these dates, as required under the new law, an inundation map must be submitted for review and approval by the Division of Safety of Dams (Division).

The PWD has submitted a letter to the Division of Safety of Dams stating that the updates to the previous EAP and inundation maps for Littlerock Dam will not be completed by January 1, 2018. The letter states that the PWD is in the process of selecting a consultant to update the EAP and inundation maps for Littlerock. Results from this update would be available during the late summer or fall of 2018. A similar schedule would be followed for Harold Dam (Lake Palmdale).

#### BOARD OF DIRECTORS PALMDALE WATER DISTRICT

VIA: Mr. Dennis D. LaMoreaux, General Manager

January 17, 2018

The District issued a Request for Proposals in November 2017 to three consulting firms inviting them to submit a proposal. The firms were CDM Smith, Montgomery Watson Harza, and Black and Veatch. Based on a review of the proposals, Black and Veatch was selected.

#### **Strategic Plan Initiative/Mission Statement:**

This item is under Strategic Initiative No. 3 – Systems Efficiency.

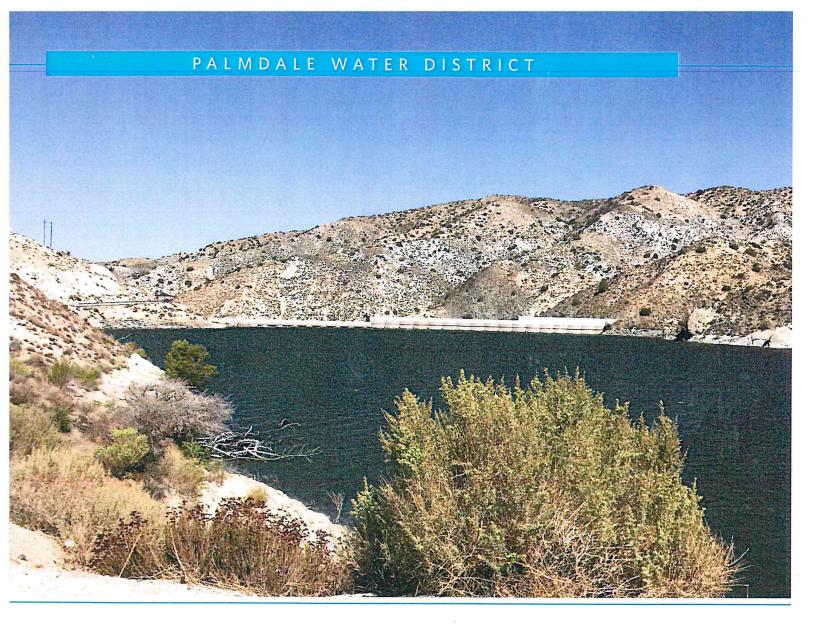
This item directly relates to the District's Mission Statement.

#### **Budget:**

This project is under Budget Item No. 1005021-000.

#### **Supporting Documents:**

• Proposal and Scope of Work from Black and Veatch



# Emergency Action Plans and Flood Inundation Maps

HAROLD DAM (LAKE PALMDALE) AND LITTLEROCK DAM

**JANUARY 11, 2018** 





January 11, 2018

Mr. James Riley Engineering/Grant Manager Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550

RE: Proposal for Harold Reservoir (Lake Palmdale) and Littlerock Dam Emergency Action Plans and Flood Inundation Maps

Dear Mr. Riley:

The preparation of meaningful and useful EAPs and Inundation Maps are critical for emergency preparedness and protection of the public. Black & Veatch's experience in the development of Emergency Action Plans and in the preparation of Inundation Maps that meet California DSOD requirements is extensive and makes us an ideal candidate for preparing these documents.

We offer the following:

- A Highly Experienced Team to Deliver Comprehensive Evaluation and Recommendation. Our highly experienced project team will be led by Jeff Neemann and Jim Rasmus, who recently managed the Watershed Sanitary Survey Update for Palmdale Water District (PWD). The core team will consist of Greg Zamensky, our practice leader for dams, Frank Means, our senior hydraulic engineer, and Kristina Lecina, our dam breach expert. We will leverage our experience to develop a comprehensive and maintainable EAP as well as useful and insightful inundation maps.
- A Strong Understanding of Agency Requirements, Dam Design, and Dam Safety Issues. The challenges relative to dam safety and hydraulic structure evaluation, particularly dam structures like those owned by PWD, can be complex and often unique. Developing emergency response solutions for PWD will require a thorough understanding of the existing conditions and constraints. The numerous technical and non-technical issues require a collaborative approach that encourages the direct involvement of PWD personnel in workshops and selected meetings; we believe this approach is vital to the success of any dam safety project.

We are excited to work on this project and look forward to a favorable review. If you have any questions, please do not hesitate to contact me at (949) 788-4233 or Jim Rasmus at (760) 621-8418.

Very truly yours,

Black & Veatch Corporation

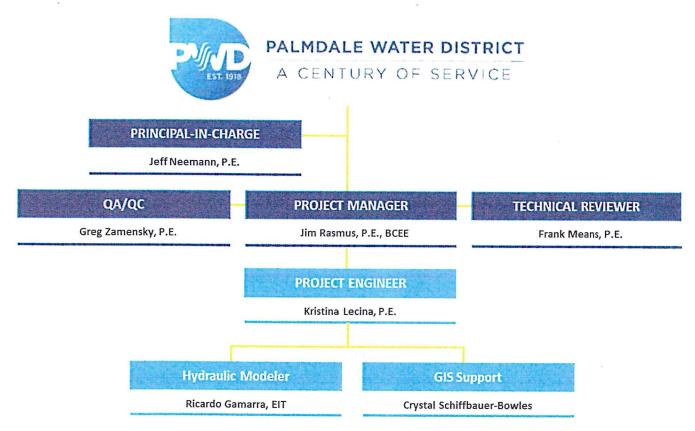
Jeff Neemann, P.E.

Associate Vice President

PROJECT TEAM

## **Project Team**

The Black & Veatch project team, displayed in the organization chart below, includes highly qualified and experienced professionals who are committed to achieving the objectives and goals of this project. As the project management team, Jeff Neemann and Jim Rasmus will provide regional and engineering insight as well as overall project coordination. Along with Jeff and Jim, several members of the proposed project team have served the PWD on previous projects. Greg Zamensky, our Practice Leader for Dams and Flood Control, will provide quality control of the production process and products. Frank Means, our chief hydraulic modeler of river and open channel systems, will serve as Technical Reviewer. Kristina Lecina will act as our team's project engineer. Kristina has over six years of experience specifically in the development of dam breach inundation maps and Emergency Action Plan (EAP) development. She will be responsible for the oversight and coordination of all technical aspects of the project, as well as overall production of reports and inundation maps. She will work with a highly experienced staff of hydraulic modelers and GIS analysts to ensure a high quality product that meets all state regulations.



The following pages highlight the team members dedicated to this project and provide brief descriptions of their personal qualifications. Resumes for each individual are provided in the Resumes section to further demonstrate their relevant work experience history.

#### A CLOSER LOOK AT OUR TEAM



#### Jeff Neemann, P.E. | PRINCIPAL-IN-CHARGE

Dr. Neemann is a Client Director and Water Sector Lead for Smart Integrated Infrastructure for Black & Veatch. He background is in the development and application of advanced water treatment technologies, in particular, evaluation, pilot testing, design, and operation of ozone, chlorine dioxide, ultraviolet light (UV), granular activated carbon, and membrane (UF, MF, NF, RO) technologies. As Water Sector Lead he is developing and applying big data and technology solutions for the water industry. He is an inventor on two patents for limiting bromate formation during ozonation.



#### Jim Rasmus, P.E., BCEE | PROJECT MANAGER

In his 30 years of experience, Jim has successfully managed many complex water projects. His leadership qualities and communication skills make him particularly well-suited for challenging projects involving coordination with multiple disciplines. One particular focus of his is in the planning, design, and construction of innovative water supply and water reuse projects. Jim's innovative ideas and leadership have led his clients to many awards for innovations.



#### Greg Zamensky, P.E. | QA/QC

Greg is an experienced project engineer and manager. His work experience includes project management, geotechnical engineering, and design efforts for more than 100 dams across the United States. This work includes emergency response, forensic evaluation, investigation, development of design/construction documents, preparation of emergency action plans and construction oversight. He is experienced with multiple dam types including earth, mass concrete, slab and buttress, roller-compacted concrete, and rockfill. His design experience includes new and rehabilitation of embankment dams, roller compacted concrete (RCC) dams, and water retention structures. In addition, Greg co-authored national publications regarding the use of RCC for dam engineering applications and is actively involved in both the U.S. Society on Dams and the Association of State Dam Safety Officials.



#### Frank Means, P.E. | TECHNICAL ADVISOR

Frank has experience in water resources planning and design that includes master planning, feasibility studies, inundation mapping, open channel design, design studies, and hydraulic analyses. Hydraulic designs have been performed for open channels, spillways, canals, bridged waterway structures, vortex drop shaft, rectangular drop shafts, stilling basins pipeline crossings and other hydraulic control structures. He has also focused on flood plain management studies. Frank has performed extensive work with FEMA and the U.S. Army Corps of Engineers in conjunction with these flood studies, and other hydraulic modeling analysis. He also has experience modeling storm water conveyance systems. Frank has concentrated on the use of the USEPA Storm Water Management Model (SWMM) and XP-SWMM for this purpose, and his project work has ranged from city storm water master plans, to combined sewer overflow systems, and university storm water master plans.



#### Kristina Lecina, P.E. | PROJECT ENGINEER

Kristina has over fifteen years of professional experience as a Water Resources Engineer. She has gained experience in the hydrologic and hydraulic assessment of watersheds, water resources planning, stormwater collection, dam breach evaluations, and the design of discharge measurement structures. She also has an emphasis in hydraulic modeling of open channel systems such as canals and rivers. Much of her recent work has focused on addressing license compliance issues for dams and hydropower projects.



#### Ricardo Gamarra, P.E. | HYDRAULIC MODELER

Ricardo is experience in open channel flow, watershed planning, hydraulic structure design, and urban watershed hydrology. He has worked on numerous projects including dam and spillway hydraulic analysis, hydrologic and open channel hydraulics modeling, and GIS analysis.



#### Crystal Schiffbauer-Bowles | GIS SUPPORT

Crystal serves as a GIS Specialist in Black and Veatch's Information Solutions team within Infrastructure Planning & Asset Management. She has more than 11 years of experience in GIS-related services; plus additional experience in environmental sciences, surveying and firefighting GIS applications. Her more recent focus is in GIS applications for geospatial analysis and mapping, problem solving and organization, and online map development. Crystal's environmental and surveying background allows her to apply GIS methods to field and office operations for various projects.

FIRM EXPERIENCE

## Firm Experience

Black & Veatch is a leading global engineering, consulting and construction company specializing in infrastructure development in energy, water, telecommunications, and management consulting, federal and environmental markets. Black & Veatch develops tailored infrastructure solutions to complex challenges that meet clients' needs and provide sustainable benefits.

#### **EMERGENCY PREPAREDNESS**

Emergency preparedness is a critical element of dam ownership and protection of the public and critical infrastructure is a foremost priority for all dam owners. This past year's near-failure at Oroville Dam has resulted in an in-depth review of all state-wide dams by California's Department of Safety of Dams, resulting in new emergency preparedness requirements for many state jurisdictional dams. Early warning systems and effective EAPs are the most significant elements of emergency preparedness for a dam owner. Black & Veatch has been developing EAPs and preparing these systems for more than 30 years. With our experience,



we understand how to develop emergency systems that are operable and maintainable over the long term. Recent Department of Water Resources, Division of Safety of Dams (DSOD) guidelines will require annual EAP testing with a review and update every 10 years. These requirements must be kept in mind as the EAP is developed to ensure long-term viability of the document. Our general approach to preparing a concise and usable EAP will require a collaborative atmosphere between Black & Veatch and Palmdale Water District (PWD).

#### **EAP Development**

Common EAP elements are global to state and federal dam safety agencies. However, the specific makeup of these elements, leading to usability of the EAP, is not driven by these guidelines, but rather by the Owner and Black & Veatch's experience. We will work with PWD and other necessary emergency management personnel to develop/refine the specific elements of

the EAP. A few elements for consideration include:

- Notification Flow Chart(s) More than one flow chart may be advisable depending on internal Owner protocols, downstream parties, and Emergency Management Agencies' interests.
- Event Level Determination Guidance Generally, a table that provides the user information allowing diagnosis of the severity of an observation. This guidance document will be considerably different for the different dam types.



Multi-colored data action sheets, used by Black & Veatch, can greatly accelerate access and review of critical responses to a dam safety emergency.

- Action Data Sheets Single pages that provide specific response and intervention details for each event listed in the Event Level Determination table.
- Responsibilities Requires coordination between the dam owner, emergency management authorities and the City. Responsibilities to be established include: evacuations; dissemination of information to the public; establishing and maintaining a control center for the duration of an emergency, as well as dam control and mitigation at the dam itself.
- **EAP Exercises** Recent FEMA guidelines for the development of EAPs have placed more emphasis on instituting of exercising strategies within the EAP itself. The EAP exercise development plan requires coordination with the dam owner to establish a balance between long-term EAP maintenance and functionality.

#### Dam Breach Modeling & Flood Routing

Dam Safety agencies require that Owners have a detailed understanding of the consequences of failure of their dams and that they report that information to the public. Utilizing agency recommended software for dam breach modeling and 2-dimensional flood wave routing, a hydraulic model of the downstream channel and the inflow tributaries is developed and dam breach conditions applied. Standard tasks that would be involved in a comprehensive downstream hydraulic model include (but are not limited to):

- Develop a 2-D hydraulic model in HEC-RAS in conjunction with the HEC-GeoRAS tool for ArcGIS, to create a geo-referenced model of the downstream channel and tributaries based on best-available topographic/elevation data.
- Perform field surveys as appropriate for inclusion in the model for critical structures such as bridges and crossings.
- Execute Breach and Non-Breach model runs for all required hydrologic conditions. These typically would include: fair weather or "sunny day" conditions; the Spillway Design Flood condition (SDF); and the Probable Maximum Flood (PMF) condition. California DSOD currently only requires analyses of sunny day conditions.
- Catalog digital output from all phases of modeling for regulatory submission, internal project management, and inclusion within PWD's existing databases.

#### Dam Breach Inundation Mapping

The inundation maps for an EAP identify the population at risk in case of a dam failure. The proper graphical representation of the analysis results is just as important as the results themselves. Black & Veatch will coordinate with PWD and emergency management personnel to incorporate necessary information to create useful maps. We will use dam safety and GIS specialists to prepare maps tailored to PWD's needs.

Black & Veatch engineers have established formats for inundation maps ensuring that the final product meets all state and federal regulations.

Standard tasks that would be involved in downstream inundation mapping include, but are not limited to:

Review of existing publicly available geographic and topographic information for inclusion in the mapping.

- Overlay of accurately projected inundation extents on the most recent publicly available aerial orthographic imagery.
- Development of orthographic reference points for all maps
- Perform field survey as appropriate to validate locations of critical structures inside or in close proximity to the inundation limits.
- Provide hard copy and digital versions of maps.

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Develop properly projected and referenced geodatabases that meet state requirements for replication

#### Recent Experience in Preparing EAPs and Inundation Maps

Some of Black & Veatch's more recent relevant project experiences with dam breach analyses and/or inundation mapping are listed in the table below. Team members have had some level of involvement on all of these projects.

| PROJECT NAME   CLIENT   LOCATION             | DATE | INUNDATION<br>MAPPING | EAP | EAP<br>EXERCISING |
|--|------|-----------------------|-----|-------------------|
| Middle Fork American River Project, PCWA, CA | 2017 | <b>I</b>              |     |                   |
| Dam Breach of 38 Small Dams, PG&E, CA        | 2016 |                       |     |                   |
| Motts Run Dam, Spotsylvania County, VA       |      |                       |     |                   |
| Lake Cooley Dam, SJWD, SC                    | 2013 |                       |     | M                 |
| Lyman Lake Dam, SJWD, SC                     | 2013 |                       |     | <b>I</b>          |
| Guajataca Dam, PREPA, Puerto Rico            | 2013 |                       |     |                   |
| Carite Dam, PREPA, Puerto Rico               | 2013 |                       |     |                   |
| Hunting Run Dam, Spotsylvania County, VA     | 2012 |                       |     | iii               |
| Occoquan River Project, Fairfax Water, VA    | 2012 |                       |     |                   |
| PacifiCorp Dam Safety (15), CA, OR           | 2012 |                       |     |                   |
| WE Energies (12), WI, MI                     |      |                       |     |                   |
| Lake Blalock Dam, Spartanburg Water, SC      | 2010 |                       |     |                   |
| Lake Lenexa Dam, City of Lenexa, KS          | 2009 |                       | -   |                   |

More detailed descriptions of select projects from the above table are provided below. Additional projects demonstrating the breadth of Black & Veatch's experience on dams, dam safety issues, and flood inundation modeling are also included.



#### PLACER COUNTY WATER AUTHORITY (PCWA)

Middle Fork Project, EAP Reprint and Inundation Mapping | California

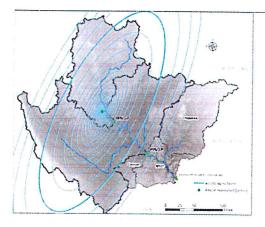
PCWA owns, operates, and maintains the FERC regulated Middle Fork American River Project which includes three high hazard dams. The existing EAP required updating and revision to bring it in line with the 2015 release of FERC guidelines for EAP development. The revision involved development of Level Determination guidelines and Action Data Sheets to guide response or each of the three dams. The entire document layout was modified to match FERC guidelines. New inundation maps that meet both FERC and DSOD requirements were also developed for the three high hazard dams. Preparation of maps required development of 2-D hydraulic models in HEC-RAS to evaluate inundation extents, flood depths, and floodwave progression in the downstream reaches. Over 190 miles of river reach for the three dams was modeled under both breach and no breach conditions for two hydrologic conditions: Fair weather and flood. Flood conditions were based on FERC approved Inflow Design Floods (IDFs) for each of the dams.



#### PUERTO RICO ELECTRIC POWER AUTHORITY (PREPA)

Guajataca Dam and Carite Dam Inundation Mapping | Puerto Rico

PREPA contracted with Black & Veatch to develop EAPs for two of their dams: Guajataca Dam and Carite Dam. The EAP followed FEMA guidelines (FEMA 64) and involved development of Level Determination guidelines and Action Data Sheets to guide response for each of the dams, as well as a Notification Flowchart and delineation of responsibilities. Black & Veatch performed hydrologic analyses of the contributing watersheds for Guajataca and Carite Dams. Four flood flow inflow hydrographs were developed for each dam: 6-Hr PMF; 24-Hr PMF; 6-Hr 100-Yr; and 24-Hr 100-Yr. 2-Dimensional HEC-RAS hydraulic models were prepared of the downstream river reaches to determine inundation extents, flood depths and floodwave progression due to dam breach failure under each of the four flood conditions. A fair weather failure was also modeled. Inundation maps were prepared using ArcGIS to provide visual representation of flooding and to identify at risk structures.



#### **XCEL ENERGY**

Prairie Island & Monticello NGPs | Minnesota

The Nuclear Regulatory Commission (NRC) requested Xcel Energy to reevaluate external flooding sources at their two nuclear generating plants. Flooding sources include the PMF on the Mississippi River. A HEC-HMS hydrologic model of the 45,000 square mile watershed was developed. Because of the size and location of the watershed, hydrologic modeling required a significant team effort. The Black &Veatch and AWA team's expertise brought an unparalleled synergy to successfully perform this analysis. AWA provided meteorological data used for calibration and calculated the all-season and snow-season site specific PMP for each plant. Black & Veatch calibrated the hydrologic model to simulate flooding during both the all-season and snow-season (rain-over-snow conditions) PMP events.



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#### SPOTSYLVANIA COUNTY

Motts Run Dam and Hunting Run Dam EAP Development and Inundation Mapping | Virginia

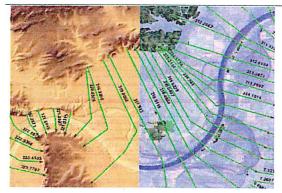
Spotsylvania County contracted Black & Veatch to update and review existing EAPs and inundation maps for two of their state judrisdictional dams: Motts Run Dam and Hunting Run Dam. The EAPs required substantial updating to meet current state regulations. New dam breach inundation maps were also developed for the two high hazard dams, identifying urban areas at-risk of flooding. Preparation of maps required development of 2-D hydraulic models in HEC-RAS to evaluate inundation extents, flood depths, and floodwave progression in the downstream reaches. Hydraulic models were run under breach and no breach conditions fair weather and PMF. Hydraulic routing extended through the City of Fredericksburg including multiple bridge crossings.



#### STARTEX JACKSON WELLFORD DUNCAN DISTRICT (SJWD)

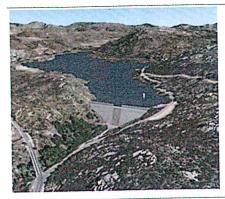
Lake Cooley Dam and North Tyger Reservoir Dam EAP Development and Inundation Mapping | South Carolina

SJWD owns, operates, and maintains several state-jurisdictional high hazard dams. SJWD contracted Black & Veatch to develop EAPs for two of their dams: Lake Cooley Dam and North Tyger River Dam. The EAPs were accepted by South Carolina Dam Safety and included: Action Data Sheets; responses, action limits; evacuation protocols. New inundation maps that meet state requirements were also developed for the two high hazard dams. Preparation of maps required development of 2-D hydraulic models in HEC-RAS to evaluate inundation extents, flood depths, and floodwave progression in the downstream reaches. Hydraulic models were run under breach and no breach conditions for two hydrologic conditions: Fair weather and flood. Flood conditions were based the dam's design storm, which is the Probable Maximum Flood. The PMF for both dams was evaluated based on NOAA's HMR 51/52 procedures and utilizing the HEC-HMS program.



#### US ARMY CORPS OF ENGINEERS TULSA DISTRICT Oklahoma District

Black & Veatch served as Systems Engineer to the US Army Corps of Engineers Tulsa District and prepared flood inundation mapping and economic damages modeling for 17 reservoirs and their downstream reaches. The reservoirs are Arcadia, Big Hill, Birch, Canton, El Dorado, Elk City, Fort Gibson, Fort Supply, Heyburn, Hugo, Kaw, McClellan-Kerr, Sardis, Skiatook, Texoma, Toronto, and Wister. The reservoirs are a part of the Tulsa District's Water Control Program. Approximately 2,085 miles of river were included in the project and were mapped for various different events, including the SDF, 100-, 50-, 10-, and 5-year return interval events. The first phase of the project involved the collection and development of GIS data for the river reaches. The unsteady-state and steady-state hydraulic modeling was setup using HEC-GeoRAS and HEC-RAS. Calibration with a historical event was also performed. The flood inundation maps were prepared using the GIS data and the hydraulic model results. The mappings, along with HAZUS data, were used as inputs to HEC-FIA in order to prepare economic damage models for each reach.



#### CITY OF ESCONDIDO

#### Lake Wohlford Dam | California

The existing Wohlford Dam was found to be unstable during large seismic events. The City of Escondido contracted with Black & Veatch to design a replacement dam and facility that satisfies FERC (a small hydro plant is located two miles downstream) and California DSOD regulations. The replacement facility consists of a new 125-ft RCC dam, intake tower, spillway (integral with the dam), and outlet works. As part of the design process, we developed the PMP and corresponding PMF, and routed the flows downstream using a HEC-RAS hydraulic model to identify the appropriate IDF. All work was approved by the FERC and DSOD.



#### **CITY OF NEW YORK**

#### Honk Falls Dam | New York

Black & Veatch is providing preliminary design services to help decide the best course of action with the existing Honk Falls Dam which is no longer needed and has been determined to be a potential hazard. Alternatives evaluated vary from rehabilitation of the dam to decommissioning the dam. Rehabilitation of the dam will require modifying the structure to meet current dam safety standards. Required actions will likely include partially demolishing the structure to handle the spillway design flood (SDF), anchoring the structure and updating the outlet works.



#### **WE ENERGIES**

#### Twin Falls Hydroelectric Project | Wisconsin

Black & Veatch developed the Inflow Design Flood (IDF) as part of the design studies for the Twin Falls Powerhouse Redevelopment Project; which included construction of a new powerhouse and spillway. The IDF analysis was conducted for four separate embankments with corewalls to evaluate incremental downstream impacts. The failure for each embankment was modeled using the National Weather Service's DAMBRK program and included evaluation the potential for domino failure of three downstream dams. The analysis determined that the IDF for largest embankment failure was 90 percent of the Probable Maximum Flood event.



#### CITY OF LYNCHBURG

#### Department of Utilities, Dam Safety | Virginia

The City of Lynchburg (City) owns, operates, and maintains the Hollins Mill, College Lake, and Pedlar Dams. The City contracted with Black & Veatch to perform a comprehensive general engineering analysis of their dams. Services provided by Black & Veatch included the following: PMP determination using HMR 52/53; PMF development and routing using HEC-HMS; hydraulic model development using HEC-GeoRAS; inflow design flood study to identify the hazard classification and IDF; three-dimensional stability analysis and foundation scour evaluation at Pedlar Dam; and preliminary design of flood retaining wall across Pedlar Dam. An incremental damage assessment was prepared for College Lake Dam in an attempt to reduce the IDF and lessen the extent of dam rehabilitation.

PROJECT APPROACH

## Project Approach

The State of California dam safety regulations are enforced by the DSOD. New state regulations passed in 2017 require that inundation maps be prepared for dams and critical appurtenant structures regulated by the state, except those classified as low hazard. Consequently, DSOD updated the hazard potential for all state jurisdictional dams to prioritize the development of EAPs and Inundation maps. As a result of these regulations, PWD is required to prepare inundation maps and EAPs for their two state jurisdictional dams: Harold Dam and Littlerock Dam.

Flood inundation studies for both dams were originally prepared in 1973 and the inundation maps for Harold Dam date from this study. The EAP and inundation map for Littlerock Dam were prepared in 1995. These documents require updating to satisfy the current state regulations.

Black & Veatch proposes to prepare EAPs and inundation maps for both Harold Dam and Littlerock Dam that meet DSOD requirements.

#### SCOPE

#### Project Management

We will provide the necessary schedule, budget and quality control activities necessary to insure a successful project, including the following:

Quality Assurance/Quality Control – Each submittal will be reviewed by an independent Quality Control reviewer prior to submittal to PWD.

Monthly Reports & Meetings – Attend two meetings in addition to the workshops to discuss progress and any other project issues. A monthly report will be prepared for submission to PWD. The monthly report will include:

- Narrative Progress Report
- Earned Value vs. Actual Billings
- Schedule Status
- Trend Register (to document any scope changes)

#### Data Review

PWD has provided several key documents in their RFP. Our team will review these documents and attempt to collect all other available information associated with the existing EAPs (drawings) and supporting hydrologic/hydraulic data for modeling purposes. Black & Veatch will review and synthesize the data to develop a foundation for the new modeling and EAPs.

Publicly available topographic data will be reviewed to ascertain coverage extents. We will preferentially utilize topographic data based on Light Detection and Ranging (LiDAR) for model development. LiDAR is a remote sensing method that uses light in the form of a pulsed laser to measure variable distance to the Earth in order to create a digital elevation model of the terrain. If unavailable, the USGS National

Elevation Dataset (NED) will be used as the Digital Elevation Model (DEM) for hydraulic model development.

Our team will review available historic inflow and reservoir level data as well as operational considerations in order to establish an appropriate baseflow condition for the fair weather (Sunny Day) dam breach scenario. The data review will also determine an appropriate initial reservoir water level prior to dam breach.

#### Hydraulic Modeling

Black & Veatch will prepare new, geo-referenced, hydraulic model of Harold Dam and Littlerock Dam and the downstream reaches based on best available topographic data utilizing Geographic Information Systems (GIS). The topographic data, compiled as a DEM will be based on the best available topographic data, and will meet the specified DSOD requirements for coordinates and projections per California Code of Regulations (adopted 10/19/2017). The geo-referenced hydraulic model will be prepared using the U.S. Army Corps of Engineers (USACE), HEC-GeoRAS software. HEC-GeoRAS is a set of utilities and tools that enables the processing of geospatial data within ArcGIS and allows for the preparation of geometric data for import into HEC-RAS. HEC-RAS is the USACE software that enables 2-dimensional unsteady flow calculations for networks of natural and constructed channels. HEC-RAS couples dam breaching capabilities with inundation modeling and mapping.

We will prepare a dam breach simulation for the Sunny Day hydrologic condition using unsteady flow and dynamic routing methods in HEC-RAS. The Sunny Day dam failure scenario will model downstream flooding extents resulting from a dam breach at the dam with the reservoir at the maximum operating water surface elevation (i.e. crest of spillway or other dam specific operating condition). The resulting flow discharge hydrographs will be routed through the downstream reach(es). The hydraulic model will extend to a location downstream where the influence of a dam failure is considered negligible. By DSOD standards, negligible is less than 1 foot of incremental rise.

Our team will use industry standards and recommendations (FERC, USBR) for establishing the dam breach parameters. The method of failure will be a piping failure, as dam overtopping would not occur under a sunny day scenario. A sensitivity analysis of breach parameters will be performed for each dam to ensure that all downstream structures that could be impacted by a dam failure are included in the inundation zone.

The existing inundation maps for both of PWD's dams indicate a potential flow split downstream of each dam. Black & Veatch will thoroughly investigate topographic data to ensure accurate hydraulic modeling and if necessary prepare two separate hydraulic models of the downstream reaches in order to evaluate the highest risk of flooding within each reach.

All bridges and in-river structures in the downstream reaches will be included in the hydraulic model. Black & Veatch will perform a cursory inquiry with CalTrans and Los Angeles County to acquire relevant bridge drawings. However, PWD will be relied on to provide any relevant structural drawings of in-river structures or bridges that are not readily available from these two agencies.

At the conclusion of this task, our team will prepare a technical memorandum documenting any assumptions, and methodologies and procedures used for the hydraulic modeling. Results of the analyses, appropriate conclusions, and necessary supporting calculations will also be documented.

#### Inundation Mapping

The California Code of Regulations outlines the requirements of inundation mapping to be used for state jurisdictional dams. All maps must also meet the requirements specified within FEMA P-946 (2013). Black & Veatch will prepare inundation maps of the reaches downstream of each dam for the sunny-day (aka fair-weather) dam failure scenario. The maps will be presented on 11x17 pages at a scale that is sufficient to clearly show downstream inhabited areas within the inundation zones. The maps will incorporate the hydraulic modeling results and will make use of the most current topographic information and aerial imagery available. We will include the following items on the inundation maps:

- Aerial imagery
- Inundation zones
- Contours
- Dams, streets, buildings, railroads, bridges, campgrounds and other significant features within 1000 feet of the inundation zone.
- Potential evacuation routes (coordinated with emergency management authorities)
- Cross-sections at critical locations detailing: distance from dam; travel times for flood wave; peak water surface elevation; incremental rise in water level; and peak discharge.

Our team will provide draft maps for each dam to PWD for review and comment. Upon receipt of one set of comments, we will prepare the final inundation maps. At the conclusion of this task, Black & Veatch will provide PWD with four (4) DVDs containing digital versions of the maps, a geodatabase with all the digital layers used to prepare the maps, and the technical memorandum documenting hydraulic modeling approaches and assumptions. The DVD will be appropriate for direct submission to DSOD by PWD and will meet all DSOD requirements for data submission.

#### **Emergency Action Plans**

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DSOD has provided a sample EAP on their website to assist dam owners in the development of state jurisdictional EAPs. We will use this template along with the additional information provided in the RFP documents to develop a thoughtful EAP for each of PWD's two dams. While Littlerock Dam's 1995 EAP is outdated, some of the information contained within may still be relevant and applicable. Our team will update and revise the information contained within the existing Littlerock Dam EAP in consultation with PWD and in accordance with DSOD requirements. Once prepared, the Littlerock Dam EAP will serve as a template for the Harold Dam EAP as there are likely to be multiple sections that are not dam-specific that can carry-over into the Harold Dam EAP (i.e. emergency management agencies; contact information; reporting forms; EAP maintenance).

The EAPs for both dams will follow the outline as presented in the DSOD sample EAP. We will coordinate development of all text, figures, tables and appendices with PWD personnel prior to preparing a formal draft document. It is anticipated that up to two meetings between Black & Veatch, PWD, and emergency management agencies will be needed to discuss EAP content.

Our team will establish procedures for reliable and timely level determination of an emergency situation to ensure that the appropriate course of action is taken based on the urgency of the situation. For the EAPs, three levels of emergency classification will be used:

- Level 1: Unusual, slowly developing event
- Level 2: Potential dam failure, rapidly developing
- Level 3: Imminent dam failure

Training of the EAP is not included within this scope of work. PWD will be relied upon to provide the list of EAP holders and contact information for local emergency management authorities.

Our team will prepare a digital draft EAP for review and comment by PWD personnel. Upon receipt of one-set of collated comments, we will finalize the EAP for distribution. Black & Veatch will provide PWD with a digital copy of the EAP that includes all maps and appendices, as well as hard copies. Mass reproduction of the EAP is not currently considered in this task order. The EAP will also be included on each of the four (4) Inundation Mapping DVDs. PWD will be responsible for routing the document to DSOD and all other EAP holders

#### **DELIVERABLES**

The following items will be delivered to PWD.

#### Harold Dam

- 4 Hardcopies of the Harold Dam EAP Hardcopies compiled to include all inundation maps and the Dam Breach Inundation Mapping Report as appendices.
- 1 Editable copy (Microsoft Word version) of Harold Dam EAP for future EAP maintenance and revisions
- 4 DVDs containing the following files:
  - PDF of Harold Dam EAP
  - PDF of Harold Dam Dam Breach and Inundation Mapping Report
  - PDF of Harold Dam Inundation Maps
  - Geodatabase containing GIS Layers as required by DSOD

#### Littlerock Dam

- 4 Hardcopies of the Littlerock Dam EAP Hardcopies compiled to include all inundation maps and the Dam Breach Inundation Mapping Report as appendices
- 1 Editable copy (Microsoft Word version) of Littlerock Dam EAP for future EAP maintenance and revisions
- 4 DVDs containing the following files:
  - PDF of Littlerock Dam EAP
  - PDF of Littlerock Dam Dam Breach and Inundation Mapping Report
  - PDF of Littlerock Dam Inundation Maps
  - Geodatabase containing GIS Layers as required by DSOD

PROJECT SCHEDULE

## Project Schedule

Black & Veatch is prepared to begin this work scope immediately. Once the Notice to Proceed (NTP) is received, Black & Veatch will require three (3) weeks to review all available data on the dams, develop the EAP template specific to PWD dams and identify information gaps. Once information gaps have been identified, Black & Veatch and PWD will meet to perform a comprehensive review of the information gaps and to establish meaningful protocols and approaches for EAP execution. It is anticipated that development of draft EAPs for Littlerock Dam and Harold Dam will require twenty-four (24) weeks from our NTP for this task order. Completion of the EAPs is heavily dependent on the level of comment on the draft.

Development of Inundation Maps will be performed in parallel to the development of EAPs. It is anticipated that development of draft Inundation Maps for Littlerock Dam and Harold Dam will require twenty (20) weeks from our NTP for this task order.

FEE PROPOSAL

## Fee Proposal

|   | Principal | Project \ Manager | Water Quality Specialist | Technical<br>Reviewer | Project<br>Engineer | Staff<br>Engineer | GIS Staff  | Admin<br>Staff | Total Hours | Expenses           | Total Fee             |
|---|-----------|-------------------|--------------------------|-----------------------|---------------------|-------------------|------------|----------------|-------------|--------------------|-----------------------|
| Task/Rates (\$/hr)  | 275       | 250               | 250                      | 190                   | 165                 | 130               | 130        | 85             |             |                    |                       |
| Task A. Project Management and<br>Review of Existing Information              | 8         | 12                | 2                        | 2                     | 16                  | 2                 | 2          | 24             | 68          |                    |                       |
| Fee, \$   | \$2,200   | \$3,000           | \$500                    | \$380                 | \$2,640             | \$260             | \$260      | \$2,040        |             | \$595              | \$11,875              |
| Task B. Develop Emergency Action<br>Plans                                     | 0         | 4                 | 24                       | 0                     | 240                 | 0                 | 0          | 0              | 268         |                    |                       |
| Fee, \$   | \$0       | \$1,000           | \$6,000                  | \$0                   | \$39,600            | \$0               | \$0        | \$0            |             | \$2,345            | \$48,945              |
| Task C. GIS - Set up Basemaps,<br>Prepare DEMs, Prepare<br>Geodatabase Layers | 0         | 0                 | 0                        | 0                     | 20                  | 0                 | 84         | 0              | 104         |                    |                       |
| Fee, \$ Task D. Model Development   | \$0       | \$0               | \$0                      | \$0                   | \$3,300             | \$0               | \$10,920   | \$0            |             | \$910              | \$15,130              |
|   | 0         | 0                 | 0                        | 14                    | 16                  | 120               | 0          | 0              | 150         |                    |                       |
| Fee,\$  | \$0       | \$0               | \$0                      | \$2,660               | \$2,640             | \$15,600          | \$0        | \$0            |             | \$1,313            | \$22,213              |
| Task E. Dam Breach Simulations  | 0         | 0                 | 0                        | 14                    | 0                   | 200               | 0          | 0              | 214         |                    | 1,                    |
| Fee, \$ Task D. Develop Inundation Maps                                       | \$0       | \$0               | \$0                      | \$2,660               | \$0                 | \$26,000          | \$0        | \$0            |             | \$1,873            | \$30,533              |
| Task D. Develop mandation maps  | 0         | 0                 | 0                        | 0                     | 40                  | 0                 | 140        | 0              | 180         |                    |                       |
| Fee, \$ Task F. Prepare Dam Beach and   | \$0       | \$0               | \$0                      | \$0                   | \$6,600             | \$0               | \$18,200   | \$0            |             | \$1,575            | \$26,375              |
| Inundation Report   | 0         | 8                 | 0                        | 40                    | 16                  | 80                | 0          | 0              | 144         |                    |                       |
| Fee, \$   | \$0<br>8  | \$2,000           | \$0<br>26                | \$7,600               | \$2,640             | \$10,400<br>402   | \$0<br>226 | \$0            | 1128        | \$1,260<br>\$9,870 | \$23,900<br>\$178,970 |

RESUMES



### Jeff Neemann, D.ENG., P.E.

Principal-in-Charge

Dr. Neemann is a Client Director and Water Sector Lead for Smart

Integrated Infrastructure for Black & Veatch. He background is in the development and application of advanced water treatment technologies, in particular, evaluation, pilot testing, design, and operation of ozone, chlorine dioxide, ultraviolet light (UV), granular activated carbon, and membrane (UF, MF, NF, RO) technologies. As Water Sector Lead he is developing and applying big data and technology solutions for the water industry. He is an inventor on two patents for limiting bromate formation during ozonation.

#### PROJECT EXPERIENCE

North Texas Municipal Water District (MWD)| Lake Tawakoni Water Treatment Plan; Wylie, TX Process Engineer. Assisted with the design of a green field 30 mgd (expandable to 90 mgd) treatment facility. Treatment process includes pre-ozonation, flocculation, sedimentation, intermediate, ozonation, dual media filtration, chlorine disinfection, and chloramines for secondary disinfection. Tasks included bench-scale testing of ozone and pilot scale testing of sedimentation, ozone, and biological filtration.

North Texas MWD | Chlorine Dioxide; Wylie, TX Process Engineer. Evaluated preoxidation with chlorine dioxide to reduce DBP formation for a 890 mgd treatment facility. Project consisted of bench-scale testing, pre-design, and detailed design for full-scale chlorine dioxide generation system.

City of Sioux City | Southbridge Water Treatment Plant; Sioux City, IA

Lead Process Engineer. Assisted with the design of a green field 15 mgd (ultimately 30 mgd) treatment facility on the Missouri River. Treatment process includes a horizontal collector well, aeration, coagulation/sedimentation and microfiltration with an encased membranes, and chlorine disinfection. Performed membrane training and develop operator tools for membrane operations.

## Office Location Irvine, CA

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#### Education

- Ph.D., Civil Engineering, University of Kansas, 2016
  MS, Environmental Engineering, Missouri University of Science and Technology, 1998
- BS, Civil Engineering, Missouri University of Science and Technology, 1996

Professional Registration PE – 2002, KS, 17008

Year Career Started | Year Started with B&V 1998 | 1998

Water District No.1 of Johnson County | Phase V Design; Lenexa, KS

Lead Process Engineer. Assisted with the design of a green field 30 mgd (ultimately 150 mgd) treatment facility on the Missouri River. Treatment process includes a horizontal collector well, aeration, lime softening and microfiltration with an encased membranes, chlorine disinfection, and chloramines for secondary disinfection. Performed membrane training and develop operator tools for membrane operations.

Southern Nevada Water Authority | Filter Retrofit; Las Vegas, NV

Lead Process Engineer. Evaluated options to retrofit 26 existing filters for 600 mgd Alfred Merritt Smith WTF. Alternatives considered included shallow media, deep media, GAC, plastic block underdrains, SS underdrains, low profile media retention. Selected option included new underdrains, low profile media retention, sand, anthracite, and raising gullet walls and troughs to increase height. Tasks include preliminary design, detailed design, and startup testing.

Water Research Foundation | Effective of Ozone Dissolution Methods on Bromate Formation, Disinfection Credit, and Operating Cost; Denver, CO

Technical Advisor. The objective of this project was to evaluate ozone exposure, design components, and water quality impacts in bubble diffusers and side stream injection. The project was a tailored collaboration led by the Southern Nevada Water Authority in partnership with the Regional Municipality of Halton. As technical advisor reviewed testing plans and results, participated in project meetings, and provided guidance on testing plan and practical design aspects of side stream injection and bubble diffusers.

Water Research Foundation | Treatment of Algal Toxins in Rivers and River Influenced Groundwater; Denver, CO

Principal Investigator. The objective of this project is to determine the effectiveness of common drinking water treatment processes in controlling cyanotoxin levels. The project team will perform testing to establish the expected removal of algal metabolites by a variety of treatment processes under a range of conditions representative of those encountered in practice. Specific processes that will be investigated include oxidation with chlorine, chlorine dioxide, potassium permanganate or ozone; lime softening; riverbank filtration; and powdered activated carbon adsorption. The proposed project will also examine the relationship between removal of algal toxins and removal of the taste- and odor-causing compounds geosmin and MIB.

City of Winston-Salem | Smart Water Analytics; Winston-Salem, NC

Solution Lead. Assisted with development of remote monitoring and smart water analytics for two water reclamation plants. One solution focuses on the balance of dissolved oxygen (DO) in the activated sludge process to optimize energy and effluent quality. Another solution uses real-time data on energy efficiency (kW/MG) and cost to treat water (\$/1000 gallons) to help the operations staff make decisions about balancing flow between the two water reclamation plants with a new transfer pump station. A third solution will provide monitoring and smart water analytics for a new combined heat and power (CHP) used to generate energy and heat from digester gas.

City of Lubbock | Smart Analytics – Membrane App; Lubbock, TX

Solution Lead. Assisted with development of remote monitoring and smart water analytics for a membrane system in Lubbock, TX. The membrane "app" focuses on the current daily production of the membrane system including the energy efficiency (kW/MG) and cost to produce water (\$/1000 gallons). The cleaning efficiency section has event based calculations that use data to identify when maintenance washes have been conducted and even track the membrane permeability before and after the event so operators can view and assess performance.

City of El Dorado | Ceramic Membrane Pilot and Study; El Dorado, KS

Lead Process Engineer. Pilot testing of ceramic membranes from a new 30 mgd WTP. Pilot testing included evaluation of design flux rate, cleaning chemicals, and addition of powdered activated carbon (PAC) for taste and odor. Study evaluated polymeric membranes versus ceramic membranes and developed preliminary cost estimates.

City of Lubbock | Water Treatment Plant MF/UF Membrane; Lubbock, TX Process Engineer. Assisted with pilot program, regulatory approval, cost evaluation, design and implementation for new 15 mgd WTP treating surface water from Lake Alan Henry applying coagulation, plate setters, UF, and disinfection. Special aspects included acceptance by local regulatory agency of high-rate pretreatment and waste handling at site without a sewer.

Beaver Water District | Chlorine Dioxide Improvements; Lowell, AR Lead Process Engineer. Designed new disinfection facilities for the generation and feed of chlorine dioxide with the capacity to disinfect 150 mgd. The chlorine dioxide was generated with a two chemical system that uses gaseous chlorine and sodium chlorite. The facility was also designed to feed chlorine in the event that the chlorine dioxide generation system is out of service. Ferrous sulfate storage and feed systems were installed at each of the three treatment plants and will feed ferrous sulfate at the flash mix of each plant. Ammonia feed facilities including bulk storage and feed systems were designed to be ready for implementation if additional DBP reduction is required.

Cucamonga Valley Water District | Lloyd W. Michael Water Treatment Plant Improvements; Rancho Cucamonga, CA
Lead Process Engineer. Preliminary and final design for the addition of UV and GAC to the existing 60 mgd conventional water treatment plant. The plant treats East Branch SWP water and is designed for enhanced coagulation. Project components included UV disinfection, partial treatment with GAC, and conversion of a reservoir to chlorine contact.



## Jim Rasmus, P.E., BCEE, ENV SP

Project Manager

In his 30 years of experience, Mr.

Rasmus has successfully managed many innovative water reuse, water resources and stormwater projects. Mr. Rasmus' creative ideas and leadership have led his clients to many awards for innovations. A recent water harvesting and restoration project that Jim has lead has garnered the following awards: NACWA's 2014 National Environmental Achievement Award; ENR California's 2013 Best Project (Water/Environmental Category); CASQA's 2014 Sustainable Stormwater Project of the Year, AAEEs Grand Prize for Environmental Sustainability, and was selected as a finalist for ASCE's 2015 Outstanding Civil Engineering Achievement Award. Jim gives back to the water profession through volunteer activities for WateReuse Association, California's Clean Beach Task Force, and mentoring activities with San Diego State University's Senior Design Class.

#### PROJECT EXPERIENCE

Palmdale Water District | Watershed Sanitary Survey and Drinking Water Sources Assessment Update; Palmdale, CA

Project Manager. Investigated potential contamination sources in Palmdale Water District's surface water supply sources as part of PWD's 2012 and 2017 Watershed Sanitary Survey Updates. Assessed potentially contaminating activities/sources of contamination within the watershed and the relative risk posed to source water quality. Evaluated current raw and treated water quality for regulatory compliance. Identified opportunities within the watershed for reducing risks to water quality/contamination. The update was coordinated with the local branch office of the California Division of Drinking Water, and the report concluded with straightforward recommendations on improvements to monitoring, maintenance practices.

City of Los Angeles Bureau of Sanitation | Echo Park Lake Rehabilitation Project; Los Angeles, CA Engineering Manager/Assistant Project Manager. Responsible for leadership of the preliminary design, design and construction phase engineering services for

## Office Location San Diego, CA

#### Education

- MS, Civil Engineering, San Diego State University, 1993
- BS, Civil Engineering, San Diego State University, 1986

#### **Professional Registration**

PE – 1993, AZ, 27032 | PE – 1990, CA, 46127 Board Certified Environmental Engineer(BCEE), 1993

Year Career Started | Year Started with B&V 2002 | 1985

water quality improvements and lake restoration within this 19-acre urban park. The rehabilitation is viewed as a great success in implementing multipurpose solutions recreational enhancements within the community while achieving the City's objectives to enhance water supply, water quality, and downstream flood control. The project featured: a DSOD-reviewed submerged partition dam to mitigate concerns over an existing embankment; over 4 acres of additional constructed wetlands along with a recirculation and aeration systems; a bentonite-enhanced liner system to mitigate water lost through exfiltration; and provisions for quick-lime addition to mitigate odors and speed up drying of excavated clays and sediments.

Los Angeles Department of Water and Power | Silver Lake and Ivanhoe Reservoirs Alternative Water Supply and Long-term Water Quality Study; Los Angeles, CA

Engineering Manager. Responsible for a study to review three separate sources of water: groundwater, recycled water, and urban stormwater to fill and maintain the level within the SilverLake Reservoir Complex. In order to assess the long-term water quality a three-dimensional water quality model of the reservoir was developed. Model results showed the reservoir could be kept filled and meeting esthetic standards through the use of a blend of these three water sources with bubble-plume aeration (to manage nutrients bound up in the sediment) and at 1,600 gpm recirculation system with floating wetland islands (to manage external sediment loads). To minimize disruption at the site, the existing outlet tower was repurposed into a recirculation pump station and the recirculation piping was tethered to the reservoir floor.

Helix Water District | El Monte Valley Restoration, Mining, and Groundwater Recharge Project; Lakeside, CA

Project Manager. Led the development of conceptual designs; hydraulic and hydrogeologic modeling; regulatory efforts with the Division of Drinking Water; and Environmental Impact Report for the El Monte Indirect Potable Reuse Project. This \$80M project will ultimately restore over 500 acres of degraded habitat and recharge up to 5,000 acre-feet per year of recycled water treated with reverse osmosis and advanced oxidation processes into the El Monte Groundwater Basin. Efforts included the development of site-specific groundwater models; a groundwater pilot study with extraction wells and spreading basins; engineering design for nearly ten million cubic yards of mass grading and 13-miles of off-site pipelines; plans for staging and mining and transfer of high value sand and aggregate; development of a groundwater management plan; a channel enhancement plan; and coordination with regional stakeholders and regulatory agencies.

San Bernardino Valley Municipal Water District | Enhanced Recharge Facilities for Santa Ana River Water, Mentone, CA

Task Leader/Technical Adviser. Designs, environmental services, and construction support for a project to provide up to 500 cfs of enhanced recharge in the Santa Ana River Spreading Basins into the Bunker Hill Basin. Key facilities include: horizontally-raked intake screens; diversion weir enhancements via a hydraulic crest gate, a sedimentation basin, a 500 cfs delivery channel with plunge pools and turnouts, 3,800 LF of 96-inch steel pipe, and 400 surface acres of additional recharge basin area. The project goals are to establish long-term water management for the Upper Santa Ana communities and improve water supply reliability.

Delta Habitat Conservation and Conveyance Program | Department of Water Resources, Sacramento, California.

Water Resources Staff Supervisor/Technical Advisor. Provided supervision and leadership for several highly specialized engineers working on various elements of the Bay Delta Habitat Conservation and Conveyance Program including: the evaluation of the Yolo Bypass, the Fremont Weir Improvements, the Intake Screens, Pre-sedimentation Basins, restoration areas, and other

components. Provided technical reviews for studies, scoping and resource allocations.

City of Escondido | Wohlford Penstock Rehabilitation Project, City of Escondido, CA Project Manager. As Engineer of Record for the 48inch diameter (75-cfs) Wohlford Penstock project, was responsible for oversight and supervision for the hydraulic analysis, detailed design drawings and specifications. This complex piping system included a submerged sleeve valve, and emergency drainage system utilizing a Howell-Bunger fixed cone valve, an outlet tower with wedge gate valves, automated butterfly valves, cathodic protection, instrumentation and telemetry. In addition to the design supervision, he directed the efforts of all environmental documentation to comply with CEQA/NEPA, the approval of a license amendment through FERC, and the approval of the State DSOD.

City of San Diego | Lake Hodges Water Quality Study, San Diego, CA

Task Leader. This study focused on the development of alternatives for improving water quality in this 30,000 AF surface water impoundment in northern San Diego County. Responsible for stakeholder outreach and development of options for enhancing the incoming water quality through restoration of up to 50 acres of upstream wetlands and related ecosystem.

Lake Calavera Preliminary and Final Designs, Carlsbad, CA (while at Atkins)

Project Manager. Preliminary Design Report that evaluated multiple uses for an under-utilized 520 acrefeet reservoir. Proposed uses include: operational and seasonal storage for a recycled water system, using the Lake as an additional source of surface water to supplement the recycled water system, and other recreational uses. The report evaluated and provided preliminary designs for: an urban runoff diversion system, new inlet/outlet piping system for the dam, an access road across the dam, a wetlands treatment system, and alternatives for a 4,500 gpm recycled water pump station.



### Greg Zamensky, P.E.

QA/QC

Mr. Zamensky is an experienced

project engineer and manager. His work experience includes project management, geotechnical engineering and design efforts for more than 100 dams across the United States. This work includes emergency response, forensic evaluation, investigation, development of design/construction documents, preparation of emergency action plans and construction oversight. Mr. Zamensky is experienced with multiple dam types including earth, mass concrete, slab & buttress, roller-compacted concrete, and rockfill. An area of particular interest is the development and testing of EAPs.

#### PROJECT EXPERIENCE

Fairfax Water; Dam Engineering Basic Ordering Agreement; Fairfax, VA

Program Manager. Fairfax Water owns and operates two mass concrete dams (85-ft and 35-ft high) on the Occoquan River. Task orders included development and execution of an EAP functional exercise; hazard classification for the Low Dam; incremental damage assessment and inundation mapping; early warning system design (siren); development of a DSMP for both structures; Part 12 dam inspections; and evaluation of and rehabilitation design for the Lower Dam.

Spartanburg Water System; Lake Blalock Dam Rehabilitation; Spartanburg, SC.

Project Engineer. Development of a new EAP for this 75-ft high, high hazard potential dam. The new EAP format established a revised standard for the state (DHEC). Based on the dam rehabilitation and EAP efforts, SWS was awarded the Regional ASDSO Award of Merit.

Fairfax County Park Authority; Dam Certification and Inspections; Fairfax, VA

Project Manager. Provided certification assessment for embankment dams (Lake Fairfax, North, and South Dams) to comply with state regulations. Work included dam safety inspection; EAP development; and hazard classification determination.

## Office Location Denver, CO

#### Education

- MS, Civil Engineering, Geotechnical Virginia Tech, 1993
- BS, Civil Engineering, Geotechnical Virginia Tech, 1992

**Professional Registration** 

PE - 2015, TX, 121474 | PE - 2013, CO, 004811 PE - 2009, FL, 69609 | PE - 2009, SC, 27304 PE - 1999, VA, 0402034418

Year Career Started | Year Started with B&V 1992 | 2006

Puerto Rico Electric and Power Authority; Guajataca Dam Safety Study; Quebradillas, Puerto Rico (U.S.)

Engineering Manager. Dam break inundation study for this 105-ft tall puddle core, embankment dam. Evaluations included hydrologic modeling and PMF development; hydraulic modeling of multiple dam break scenarios; development of detailed inundation maps using GIS; and preparation of supporting documentation.

Spotsylvania County; Hunting Run Reservoir; Spotsylvania, VA

Project Manager. Prepared hydraulic modeling for modernization of inundation mapping, prepared new EAP in compliance with state dam safety guidelines.

Puerto Rico Electric and Power Authority; Carite Dam Safety Study; Cayay, Puerto Rico (U.S.) Engineering Manager. Dam break inundation study for this 100-ft tall embankment dam. Evaluations included hydrologic modeling and PMF development; hydraulic modeling of multiple dam break scenarios; development of detailed inundation maps using GIS; and preparation of supporting documentation.

Union/Lancaster Counties; Catawba River Reservoir; Union, SC

Engineering Manager. Detailed design of new reservoir including dam, pump station and outlet works. Work include dam break inundation study for this 110-ft tall zoned embankment dam. Evaluations included hydrologic modeling of the watershed and PMF development; hydraulic modeling of the Catawba River (25 river miles); development of detailed inundation maps using GIS; and preparation of supporting documentation.

City of Lynchburg; College Lake Dam; Lynchburg, VA

Project Manager. Evaluation of rehabilitation alternatives for a 45-ft high, high hazard dam. An inadequate spillway required study of hydrologic, hydraulic and stability characteristics of various rehabilitation alternatives including RCC overtopping. Prepared inundation mapping, hazard classification and rehabilitation alternatives study.

Natural Resources Conservation Service | Dam Engineering IDIQ Contract, Nationwide Program Manager. Nationwide contract to provide dam engineering services on NRCS facilities. Issued task orders included dam design review for projects in OK, MO and KY; construction monitoring of 15 facilities in Iowa; and comprehensive dam assessments for 16 dams (NC) that included inspection, hydrologic and hydraulic modeling, risk analyses, and development of remedial alternatives.

City of Lynchburg Department of Utilities; Pedlar Dam Safety Analysis; Lynchburg, VA Project Manager. The project involves a comprehensive safety evaluation of the 65-ft high, 500-ft long mass concrete dam. Our analyses included hydrologic modeling and PMF development; hydraulic modeling of the downstream channel using HEC-GeoRAS; scour potential of the downstream rock mass; and 3-D finite element stability using ANSYS. Additional work included inundation mapping and hazard classification of the dam.

Augusta County Service Authority; Coles Run Dam Evaluation; Buena Vista, VA Project Manager. Coles Run Dam is a 65-ft earthfill dam with an undersized concrete lined channel spillway. Evaluated alternatives to modify the spillway to provide adequate capacity including widening; performed intrusive investigation; developed inundation mapping; evaluated use of micro-hydro.

Washington Suburban Sanitary Commission; Duckett Dam Safety Analysis; Laurel, MD Project Manager. Preparation of comprehensive safety analysis for a 135 ft high slab and buttress dam. The project includes detailed stability evaluations for the concrete dam and seven 16-ft high, 20-ft wide Taintor gates; PMF estimate; hydraulic modeling of downstream area and inundation mapping; seismic hazard analysis; rock erodability evaluation; and development of rehabilitation alternatives.

City of Manassas Department of Utilities; T. Nelson Elliott Dam; Manassas, VA

Project Manager. Rehabilitation of a 60 ft high concrete/earth composite dam due to inadequate spillway capacity. Prepared preliminary design for RCC overtopping and post-tensioned anchors. Also provided a series of dam safety services including: routine dam safety inspection, EAP update and GIS map modernization, and performing a potential failure modes assessment.

Maryland-National Capital Park & Planning Commission; Burnt Mills Dam; MD Project Manager. Comprehensive safety study of a 23-ft high Ambursen Dam including PMF development, hydraulic modeling of downstream, inundation mapping, inspection, finite element stability analysis and remedial recommendations.

Fairfax County Park Authority; Lake Accotink Dam; Fairfax, VA

Project Manager. This 35-ft high slab & buttress dam required a safety inspection, EAP revision, H&H review and spillway flood determination. Provided updated EAP and state inspection forms.

Montgomery County Government; Emergency Action Plans; Germantown; Germantown, MD Project Manager. Two, zoned embankment, high-hazard dams (Lake Hallowell and Gunner's Lake) required new emergency action plans (EAP) that included inundation maps using available GIS data.

City of Escondido; Lake Wohlford Dam Replacement; Escondido, CA Engineering Manager. Design of a replacement dam for the existing 100-ft high (high hazard) hydraulic fill dam due to seismic instability. The project includes dam type alternatives analysis; geotechnical investigation; stability/seepage analyses; detailed design; and hydrologic/hydraulic modeling of PMF and dam break scenarios.



## Frank Means, P.E.

Technical Advisor

Mr. Means has experience in water resources planning and design that includes master planning, feasibility

studies, inundation mapping, open channel design, design studies, and hydraulic analyses. Hydraulic designs have been performed for open channels, spillways, canals, bridged waterway structures, vortex drop shaft, rectangular drop shafts, stilling basins pipeline crossings and other hydraulic control structures. Mr. Means has also focused on flood plain management studies. He has performed extensive work with FEMA and the U.S. Army Corps of Engineers in conjunction with these flood studies, and other hydraulic modeling analysis. Mr. Means also has experience modeling storm water conveyance systems. He has concentrated on the use of the USEPA Storm Water Management Model (SWMM) and XP-SWMM for this purpose, and his project work has ranged from city storm water master plans, to combined sewer overflow systems, and university storm water master plans. With experience using HEC-1, HEC-2, HEC-RAS, GeoHEC-RAS, HEC-HMS, DAMBREAK, BOSS DAMBRK, SWMM, XP-SWMM. ArcMap and developed hydrologic and hydraulic spreadsheets, he is capable of performing all types of surface water modeling.

#### PROJECT EXPERIENCE

PCWA | Middle Fork American River Project, L.L. Anderson Reservoir Dam Breach Analyses, Placer County, CA

Water Resources Engineer. Performed a Dam Failure Study of L. L. Anderson Dam. This included reservoir routing, gate operations, and flood wave routing approximately 50 miles. Analyzed domino effects of a downstream dam, Ralston Afterbay Dam, breaching due to the flood wave. Developed HEC-RAS models for unsteady state conditions for the PMF and Sunny Day Breach conditions. Prepared flood inundation mapping to be used in the Emergency Action Plan. Utilized ArcMAP with HEC-GeoRAS to construct the HEC-RAS models and produce the inundation mapping.

Office Location Kansas City, MO

#### Education

- MS, Civil Engineering, Pennsylvania State University, 1991
- BS, Civil Engineering, Pennsylvania State University, 1988

Professional Registration PE – 1995, MO, EN027153

Year Career Started | Year Started with B&V 1991 | 1991

SJWD | Lake Cooley and North Tyger Reservoir Dam Breach Analyses, Spartanburg, SC Water Resources Engineer. Performed a Dam Failure Study of Cooley Lake Dam and North Tyger Reservoir Dam. This included developing a PMF, a HEC-HMS model for the PMP, along with reservoir routing. Analyzed domino effects of the upstream dam breach cascading into the downstream dam. Developed HEC-RAS models for unsteady state conditions for the PMF. Prepared flood inundation mapping to be used in the Emergency Action Plan for each dam. Utilized ArcMAP with HEC-GeoRAS to construct the HEC-RAS models and produce the inundation mapping.

Xcel Energy | FHRR Flood Studies for Prairie Island and Monticello Nuclear Generating Plant; Prairie Island and Monticello, MN

Water Resources Engineer. Evaluated the impact of the Probable Maximum Precipitation, snowmelt, and the Probable Maximum Flood with and without a dam breach simulation of over 100 dams upstream of PINGP and MNGP, and the seismic dam breach evaluation during a "sunny day" event. Used HEC-RAS 4.1 and GIS to model an unsteady state flood wave routed through the Mississippi River as it passes the NGP site. These flood events were prepared for the NRC.

City of Spotsylvania; Dam Failure Study Hunting Run Dam; City of Spotsylvania, VA
Technical Support. Provided technical support, assistance, and review for the Dam Failure Study of Hunting Run Dam in Spotsylvania, Virginia. The PMF was supplied with this project, therefore focus on routing through the dam, development of a spillway rating curve, breaching of the dam, routing the flood wave and producing inundation maps to be used in an Emergency Action Plan. Determined maximum water surface elevations for the different dam breach scenarios. Developed HEC-RAS models for unsteady

state conditions for the PMF with and without a dam breach failure, as well as a sunny day failure. Utilized ArcMAP and other GIS tools along with HEC-GeoRAS to construct the HEC-RAS model.

Puerto Rico Electric and Power Authority | Dam Failure Study at Guajataca Dam; Puerto Rico (U.S.) Technical Support. Provided technical support, assistance, and review for the Dam Failure Study of Guajataca Dam in Puerto Rico. This included the development of a PMF for the Site. Constructing a HEC-HMS model for the PMP to be applied to and routing through the reservoir. Developed spillway rating curves for the dam and incorporated them into the HEC-HMS model. Determined maximum water surface elevations for the different dam breach scenarios. Developed HEC-RAS models for unsteady state conditions for the PMF with and without a dam breach failure. Utilized ArcMAP and other GIS tools along with HEC-GeoRAS to construct the HEC-RAS model. Produced inundation maps of the flooding that can be used to create an Emergency Action Plan.

City of Lynchburg | College Lake Flood Inundation Study; City of Lynchburg, VA Water Resources Engineer. Determined the Probable Maximum Precipitation (PMP) using HMR-51/52. Computed hydrologic watershed characteristics for computing the Probable Maximum Flood (PMF) using HEC-HMS. Performed dam breach analysis and flood inundation mapping. Performed unsteady state modeling of the dam breach wave and the channel storage effects. Utilized GIS applications to produce flood inundation mapping and dam breach arrival characteristics.

California DWR Delta Habitat Conservation & Conveyance Program Modeling of Yolo Bypass and Freemont Weir; Sacramento, CA Water Resources Engineer. Performed hydraulic analysis of low flood flows (500–6,000cfs) through the Yolo Bypass. Used LiDAR data, field surveys, bathymetry, and construction drawings to obtain accurate representation of the Bypass. Took into account tidal effects along with a weir control structure for external and internal boundary controls. Used ARC-Map/Geo-RAS and HEC-RAS for analyses. Determined amounts of flood inundation areas and levels for fish and wildlife habitat improvement. Results were used for screening purposes of options.

U.S. Army Corps of Engineers Tulsa District | Real-Time Flood Inundation Mapping and Economic Damages Modeling; Tulsa, OK

Water Resources Engineer. Black & Veatch. Developed HEC-RAS models for unsteady state conditions for the Spillway Design Flood, and steady state conditions for the 10-, 50-, 100-, and 500-yr storm events. Utilized ArcMAP and other GIS tools along with HEC-GeoRAS to construct models for individual reaches of reservoir routing along the Arkansas, Illinois, Canadian, North Canadian, Red, and Poteau Rivers along with major tributary streams to these rivers. Detailed work was involved with modeling gate operations and spillway activation in accordance with Water Control Manuals for the reservoirs to ensure accurate water surface elevations throughout the modeling reach. Calibration was performed to selected storm events with available data. Multiple gates were operated in sequence with other gates in a particular structure along with operational gates on upstream or downstream structures.

City of Longmont | Water Treatment Plant Hydraulic Analyses; City of Longmont, CO Water Resources Engineer. Perform the hydraulic modeling for drainage diversion channel, spillway analysis, and flood inundation from a breach of a holding pond levee. Used HEC-RAS to determine hydraulic capacity of channel and new crossing to convey the max flows. Designed the spillway to pass the peak flows leaving the holding pond. Used DAMBRK to model the flood depths downstream of the holding pond. Results of this analysis helped determine what size classification of the dam to apply for when constructing an Emergency Action Plan.

Metropolitan Water District of Southern California | Gene Wash and Copper Basin Inundation Study and Mapping; San Bernardino, CA Project Engineer. For the preparing of a dam break inundation study and report for Gene Wash and Copper Basin Reservoirs. Used the National Weather Service DAMBRK model in conjunction with the unsteady flow portion of HEC-RAS to perform the breach analysis and determine inundation limits. Procedures and limits of the study were determined by following the Governor's Office of Emergency Services, California Code of Regulations. Prepared inundation maps for 13 miles of river reach.



## Kristina Lecina, P.E.

Project Engineer

Kristina has over fifteen years of professional experience as a Water Resources Engineer. She

has gained experience in the hydrologic and hydraulic assessment of watersheds, water resources planning, stormwater collection, dam breach evaluations, the design of discharge measurement structures and the preparation of hydraulic profiles for treatment plants. She also has experience in modeling pipeline hydraulics including transients, networks, collection systems and open channel systems such as canals and rivers. Much of her recent work has focused on addressing license compliance issues for dams and hydro-power projects.

#### PROJECT EXPERIENCE

Placer County Water Agency | Mammoth Lake Dam Breach Inundation Map Development, CA Senior Engineer. Preparation of hydraulic models of stream channel systems downstream of Mammoth Lake in HEC-RAS. Investigated the potential for flooding from dam failure under Sunny Day conditions. Prepared flood inundation maps utilizing ArcMap and HEC-GeoRAS software. Prepared geodatabase with layer coverages meeting California DSOD requirements.

Placer County Water Agency | MFARP Dam Breach Inundation Map Development, CA
Senior Engineer. Preparation of hydraulic models of riverine systems associated with the Middle Fork
American River Project in HEC-RAS. Investigated the potential for flooding from dam failures under both the Inflow Design Flood (IDF) and Sunny Day conditions for each of the three high risk dams in the project: L.L. Anderson Dam; Hell Hole Dam and Ralston Afterbay Dam. Prepared flood inundation maps utilizing ArcMap and HEC-GeoRAS software.

Placer County Water Agency | MFARP Emergency Action Plan Reprint, CA| FEB 2017 – Dec 2017 Senior Engineer. Comprehensive review and update to the Emergency Action Plan (EAP) for the Middle Fork American River Project. Reorganization of the EAP to address the revised FERC 2015 EAP Guidelines.

## Office Location Sacramento, CA

#### Education

- M.S., Biological & Agricultural Engineering, University of Minnesota, 2001
- B.S., Biosystems Engineering, University of Nebraska, 1999
- B.S., Biology, University of Nebraska, 1995

**Professional Registration**PE – 2008, KS, 20359 | PE – 2014, AZ, 58255

Year Career Started | Year Started with B&V 2001 | 2001

Pacific Gas & Electric | Small Dam Dam-breach Inundation Study, CA

Senior Engineer. Developed hydraulic models in HEC-RAS for thirty-eight separate small dam systems. Investigated the potential for downstream flooding from dam failure under sunny day conditions. Prepared flood inundation maps utilizing ArcMap and HEC-GeoRAS software.

Spotsylvania County, Virginia | Dam Breach Inundation Study for Motts Run Dam, Spotsylvania County, VA

Engineer. Developed hydraulic model of Motts Run Reservoir and its downstream valley in HEC-RAS. Investigated the potential for flooding from dam failures under both Probable Maximum Flood (PMF) and Sunny Day conditions. Prepared flood inundation maps utilizing ArcMap and HEC-GeoRAS software.

SJWD | Lyman Lake Dam EAP, Spartanburg County, SC

Engineer. Developed watershed hydrology and estimated the outflow hydrograph from Lyman Lake Dam due to a dam failure scenario using HEC-HMS for the PMF event using HMR 51/52. Developed hydraulic model of downstream valley in HEC-RAS and prepared flood inundation maps.

Puerto Rico Energy and Power Authority | Dambreak Inundation Study for Lago Guajataca, Puerto Rico

Engineer. Developed watershed hydrology and estimated the outflow hydrograph from Lago Guajataca due to a dam failure scenario using HEC-HMS for the PMF and 100-year events using TP-42 and NOAA Atlas 14. Developed hydraulic model of downstream valley in HEC-RAS and prepared flood inundation maps.

Spotsylvania County, Virginia | Dambreak Inundation Study for Hunting Run Dam, Spotsylvania County, VA Engineer. Developed hydraulic model of Hunting Run Reservoir and its downstream valley in HEC-RAS. Investigated the potential for flooding from dam failures under both Probable Maximum Flood (PMF) and Sunny Day conditions. Prepared flood inundation maps utilizing ArcMap and HEC-GeoRAS software.

Puerto Rico Energy and Power Authority | Dambreak Inundation Study for Lago Carite, Puerto Rico

Engineer. Developed watershed hydrology and estimated the outflow hydrograph from Lago Carite due to a dam failure scenario using HEC-HMS for the PMF and 100-year events using TP-42 and NOAA Atlas 14. Developed hydraulic model of downstream valley in HEC-RAS and prepared flood inundation maps.

Essex & Suffolk Water | Dam Break Analysis for Recreational Lake; Essex County, United Kingdom Staff Engineer. Developed an estimated outflow hydrograph due to a dam breach scenario using DAMBREAK U.K. Developed hydraulic model of downstream valley in ISIS and prepared flood estimation maps.

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE:** January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

**FROM**: Mr. James A. Riley, Engineering/Grant Manager

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 7.3 - CONSIDERATION AND POSSIBLE ACTION ON

AMENDMENT NO 1 WITH ESA ASSOCIATES FOR THE 2016 WATER MASTER PLAN PROGRAM ENVIRONMENTAL IMPACT REPORT. (\$69,985.00

- BUDGETED - ENGINEERING/GRANT MANAGER RILEY)

#### **Recommendation:**

Staff recommends that the Board: Approve contract amendment No. 1 with ESA Associates to complete the 2016 Water Master Plan Program Environmental Impact Report in the amount of \$69,985.00.

#### **Alternative Options:**

The Board can choose to not approve the amendment and have ESA submit report as it presently stands.

#### **Impact of Taking No Action:**

Have staff to direct consultant to finish the EIR as it presently stands. This would require that staff seek alternative locations for some of the features in the 2016 Program EIR

#### **Background:**

ESA was selected by Palmdale Water District (PWD) to prepare a Program Environmental Impact Report (PEIR) for the Water System Master Plan (WSMP). The Notice of Preparation (NOP) was released in January 2017, and ESA held a scoping meeting in March 2017. ESA compiled the administrative draft PEIR (ADEIR) throughout 2017, conducting biological and cultural resources surveys and completing all environmental analysis required by the California Environmental Quality Act (CEQA). After submitting the full ADEIR in November 2017, PWD informed ESA that a new component, an expansion of the PWD headquarters, would need to be included in the project description and analyzed in the PEIR. Well locations were also moved. Additionally, a cultural resources feature was found to be present at one of the proposed WSMP facilities, and another facility is proposed in an area with high likelihood of discovery of prehistoric archaeological remains. To address the new headquarters building and cultural work, ESA has prepared this Amendment No. 1. The amendment is separated between the new/revised WSMP components and the additional work required to evaluate the headquarters expansion.

#### BOARD OF DIRECTORS PALMDALE WATER DISTRICT

VIA: Mr. Dennis D. LaMoreaux, General Manager

January 17, 2018

Several project details have changed during ESA's preparation of the ADEIR that require revision to the analysis. The location of two of the five production wells has been changed from what was presented in the 2016 WSMP. Instead of wells clustered in the eastern portion of PWD's service area, two are now located in the northern portion of PWD's service area. All ADEIR sections, including all graphics, will need to be updated to account for this change in location, which will affect issues such as land use characterization, agriculture resources designation, and other topics. Additionally, one pipeline location was moved to avoid impacts to the LA Aqueduct, which required an additional field survey and revision of analysis and graphics.

ESA's original scope of work assumed that no cultural resources would be identified during field surveys. ESA's archaeologists conducted field surveys on July 6-7, 2017, October 20, 2017, and November 6, 2017. One resource, a historic refuse with earthen ditch/reservoir, was identified during the field survey adjacent to the proposed near-term pipelines along E. Avenue 4<sup>th</sup> Street (see ADIER Figure 2-2e). This resource has not yet been evaluated for its significance under CEQA (i.e., as a historical resource or unique archaeological resource) and may be impacted by the project. ESA archaeologists found that artifact concentrations are located within 10 feet of the pipeline route. As such, it would be difficult, if not impossible, to avoid this resource during construction. As a result, ESA has proposed an onsite meeting with PWD to discuss the options for avoiding constituents of archaeological site.

Additionally, the ES-03 project feature has a high likelihood of prehistoric resources discovery (see ADEIR Figure 2-2b). The site is partially underlain by a higher-sensitivity geologic unit (Holocene alluvium), is within proximity to a historic water source, and has a low degree of slope. In addition, there have been 18 prehistoric resources documented within a 0.5-mile radius of ES-03. As such, the subsurface archaeological sensitivity of this portion of the project area is considered high and an Extended Phase I testing program (i.e., presence/absence testing) is recommended to be implemented prior to completion of the Draft PEIR.

#### **Strategic Plan Initiative/Mission Statement:**

This item is under Strategic Initiative No. 3 – Systems Efficiency – Implement 2016 Water Master Plan.

This item directly relates to the District's Mission Statement.

#### **Budget:**

This project is under Project No. 14-404.

#### **Supporting Documents:**

Scope of Work from ESA Associates

#### SCOPE OF WORK

#### **Task 1: Project Management**

#### Task 1.1: Scope, Schedule and Budget

The issues outlined above require the ESA project management team to spend time working towards resolutions with the technical experts, which was not originally planned for or anticipated in ESA's original scope of work. Additionally, the work proposed under this Amendment 1 will result in additional project management time.

#### **Task 2: Project Description**

ESA will revise the project description to include the new location of the two production wells within the text and on graphics. Any revision to the project alignments based on changes to avoid cultural resources will also be captured in the project description and related figures.

#### **Task 4: Administrative Draft EIR**

#### **Cultural Resources Survey and Reporting**

#### 4th Street East

<u>Site Visit.</u> ESA will participate in an onsite meeting with PWD to discuss the options for avoiding constituents of archaeological site CA-LAN-3645H. ESA assumes that two (2) ESA staff will participate in the site visit, and it will be conducted within approximately one-half (0.5) days including travel time.

Recommendations. ESA will develop recommendations for next steps for this project component. If PWD is able to relocate the pipeline, ESA will provide recommendations for additional identification work in the new pipeline alignment, if necessary (i.e., archival research, survey, etc.). If the pipeline route cannot be relocated, ESA will provide recommendations for significance evaluation of CA-LAN-3645H and/or protective measures to be taken during project implementation. The draft recommendations will be provided in a technical memorandum and provided to PWD for review and comment. The final recommendations will be incorporated in to the Cultural Resources Assessment Report.

#### **ES-03**

<u>Work Plan</u>. ESA will prepare a work plan to guide the Extended Phase I testing program. The work plan will outline the goals of the investigation; field methods to be employed (including a map depicting proposed mechanical and/or hand excavation locations); laboratory procedures; reporting requirements; provisions for Native American monitoring; and regulations and procedures to be enacted in the event of the discovery of human remains. A draft work plan will be submitted to PWD for review and comment. The work plan will also be provided to any Native American representatives who request a copy for their review. A final work plan incorporating comments will be prepared.

Field Investigation. After PWD approval of the final work plan, ESA will implement the work plan. This will include a combination of mechanical and hand excavation techniques focused on the area of direct impact (ADI) plus sufficient buffer, estimated to cover a 200-foot by 200-foot area where the tank will be located and approximately 100 linear feet of pipeline route. ESA anticipates that up to 10 shovel test pits (STPs) and up to 50 feet of mechanical trenching will be excavated, and that a crew of three (3) archaeologists can complete the investigation within three (3) work days including travel time and mobilization. Mechanical trenching will be conducted by a backhoe and operator (rental fee is estimated to be \$3,320 [\$170/hour for 16 hours plus \$600 drop-off/pick-up]) and directed by an archaeologist. If PWD is able to provide a backhoe and operator, ESA would reduce the costs accordingly. ESA assumes that PWD will obtain any necessary access agreements or permissions required from the landowner prior to field mobilization and that no artifacts will be collected or removed from the site during testing. This scope and cost estimate does not include fees associated with Native American participation in the field investigation. If the San Manuel Band of Mission Indians would like to provide a Native American participant monitor, ESA will reduce the field staff and costs accordingly. ESA assumes that the Native American participant monitor would contract directly with PWD; however, ESA is available to contract directly with the monitor if all parties are amenable to that arrangement.

Reporting. The results of the investigation will be documented in an Extended Phase I Testing Report. The report will provide the methods and results of the field investigation, and recommendations for further work, if deemed necessary. A draft report will be submitted to PWD for review and comment. The report will also be provided to any Native American representatives who request a copy for their review. A final report incorporating comments will be prepared. The final report will be filed at the South Central Coastal Information Center. ESA assumes that a negative findings report will be prepared and that all deliverables will be provided in electronic format (Word and/or PDF).

#### **Administrative Draft PEIR Revisions**

All environmental sections included in the ADEIR will be revised to analyze construction and operation of two production wells in the northern portion of the project area. The analysis will address any impacts to groundwater production given the new area for operation. Additionally, the results of the cultural resources surveys and assessments described above will be incorporated into the ADEIR. If any of project component locations changes based on the results of the surveys, the new locations will be incorporated into the environmental analysis.

#### PWD HEADQUARTERS EXPANSION UNDERSTANDING

ESA understands that PWD would like to assess environmental impacts associated with a headquarters expansion within the PEIR for the WSMP. The headquarter expansion would consist of demolition of existing buildings at the corner of E. Avenue Q and 20th Street in Palmdale and construction of a 21,000 square foot building. The building to be constructed would be one story in height and would be constructed on land currently owned by PWD. PWD anticipates the demolition and construction would occur between 2020 and 2030, which puts it within the long-term component category analyzed in the WSMP PEIR.

#### SCOPE OF WORK

#### **Task 2: Project Description**

ESA will revise the project description to include the demolition of existing buildings and construction of the PWD headquarters expansion as a long-term component evaluated at a program level. This will include updating all relevant figures.

#### Task 4: Administrative Draft EIR

#### **Historic Resources Assessment**

ESA will prepare a Historic Resources Assessment addressing the existing PWD Headquarters located at 2029 East Avenue Q, Palmdale, CA 93550 (AIN: 3022-012-918). The area is currently partially developed with buildings, structures, and pavement, and partially undeveloped with vacant and unpaved areas. A preliminary review of historic maps and aerial photographs indicate that the area proposed for demolition in the southwest corner of the site was undeveloped until sometime between 1959 and 1965 when three to four structures were constructed onsite. Given that there are buildings/structures onsite that are more than 45 years old (California Office of Historic Preservation's threshold for consideration as historical resources) and the project includes future development of the existing PWD Headquarters, ESA will conduct a historic resources assessment. The tasks to be completed include:

<u>Archival Research</u>. ESA will conduct site-specific research of the project area. Focused site-specific research may include review of building permits, Sanborn Maps, city directories, and historic maps, aerials, and photographs. Research will be conducted at the other archives and relevant internet sites to be identified as applicable. ESA assumes that PWD will make available any original plans or drawings for the existing facilities.

<u>Site Visit.</u> A site visit will be conducted to document historic-age buildings/structures located on the PWD Headquarters. Both exterior and interior access will be required. California Department of Parks and Recreation (DPR) 523 forms will be prepared. ESA assumes one architectural historian can complete the site visit in one (1) day including mobilization and travel time and that no more than six (6) buildings/structures will be documented.

<u>Historic Resources Assessment</u>. Since construction of the PWD Headquarters was initiated sometime between 1959 and 1965 and is more than 45 years old, ESA will assess the PWD Headquarters for its eligibility as a historical resource under CEQA. ESA will evaluate PWD Headquarters for eligibility under the applicable criteria of the National Register of Historic Places (National Register), the California Register of Historical Resources (California Register), and local preservation ordinances. If the PWD Headquarters is identified as a historical resource, ESA will provide general recommendations to guide future development on the site. The historic resources assessment will be documented in a Draft Historic Resources Assessment Report. and one set of DPR 523 forms will be prepared for the PWD Headquarters. Upon receipt of PWD comments on the draft report, ESA will prepare a Final Historic Resources Assessment Report. A copy of the final report will be filed at the South Central Coastal Information Center.

#### **Administrative Draft PEIR Revisions**

The ADEIR will be revised to include a program-level analysis of building demolition, and construction and operation of the modified PWD headquarters. Some environmental areas of consideration will be the removal and hauling of demolition material offsite, potential cultural resource impacts associated with demolition, potential biological resources impacts to nesting birds on the property, and potential air quality considerations to the housing development to the south of the proposed demolition and construction site. However, since this is a long-term project component to be implemented after 2020, no biological or cultural site surveys will be conducted, and no quantitative air emissions calculations will be conducted. Such analyses would expire in their applicability and should be done when PWD has specific plans for the headquarters expansion.

#### Fee Proposal

The attached Table 1 provides ESA's cost estimate for the scope of work amendment described above, broken down by each modification subject, task and labor hours per ESA employee. Our fee proposal is not to exceed \$69,985.

### TABLE 1: PRICING PROPOSAL ESA Labor Detail and Expense Summary

|            |   |                 |              |                           |                          |                         |                  |                  |               | A. Bell      | M Loder     |           |                           |                          |                         |               |               |             |
|------------|---|-----------------|--------------|---------------------------|--------------------------|-------------------------|------------------|------------------|---------------|--------------|-------------|-----------|---------------------------|--------------------------|-------------------------|---------------|---------------|-------------|
|            | Employee Name                           |                 | Strauss      | Jerabek                   | Ehringer                 |                         | Molioo           | Taylor           |               | M. Gonzalez  | A. Madrid   |           |                           |                          |                         |               |               |             |
|            |   | Bames           | Ainsworth    | Jacobus                   | Schniewind               | Dubois                  | Spano            | Vader            | F. Clark      | J. Avila     | Matroni     |           | G. JaFolla                | J. Anderson              | S. Lewis                |               |               |             |
|            | Title                                   | Senior Director | Director III | Managing<br>Associate III | Managing<br>Associate II | Managing<br>Associate I | Senior Associate | Senior Associate | Associate III | Associate II | Associate I | Subtotal  | Project<br>Technician III | Project<br>Technician II | Project<br>Technician I | Subtotal      | Hours         | Labor Price |
| Task #     | Task Name/Description                   | \$265           | \$230        | \$195                     | \$180                    | \$165                   | \$150            | \$140            | \$130         | \$120        | \$100       |           | \$115                     | \$95                     | \$80                    |               |               |             |
|            | WSMP Amendment 1                        |                 |              |                           |                          |                         |                  |                  |               |              |             | \$ -      |                           |                          |                         | \$ -          |               | \$ -        |
| 1          | Project M anagement                     | 2               |              | 20                        |                          |                         | 10               |                  |               |              |             | \$ 5,930  |                           |                          |                         | \$ -          | 32            | \$ 5,930    |
| 2          | Project Description                     | 2               |              | 4                         |                          |                         | 8                |                  |               |              |             | \$ 2,510  | 2                         | 6                        |                         | \$ 800        | 22            | \$ 3,310    |
| 4          | Administrative Draft EIR                |                 |              |                           |                          |                         |                  | i i              |               |              |             | \$ -      |                           |                          |                         | \$ -          |               | \$ -        |
|            | Cultural Resources Survey and Reporting |                 |              |                           | 17                       |                         | 62               |                  |               | 24           | 33          | \$ 18,540 | 3                         | 14                       | 25                      | \$ 3,675      | 178           | \$ 22,215   |
|            | Administrative Draft PEIR Revisions     |                 | i d          | 16                        | 4                        |                         | 24               | ) j              |               |              | 8           | \$ 8,240  | 4                         | 8                        |                         | \$ 1,220      | 64            | \$ 9,460    |
|            |   |                 |              |                           |                          |                         |                  |                  |               |              | ,           | \$ -      |                           |                          |                         | \$ -          | -             | \$ -        |
| 17         |   |                 |              |                           |                          |                         |                  |                  |               |              |             |           |                           |                          |                         | WSMP.         | Amendment 1   | \$ 40,915   |
|            |   |                 |              |                           |                          |                         |                  |                  |               |              |             | \$ -      |                           |                          |                         | \$ -          |               | \$ -        |
|            | PWD Headquarters Expansion              |                 |              |                           |                          |                         |                  |                  |               |              |             | \$ -      |                           |                          |                         | \$ -          |               | \$ -        |
| 2          | Project Description                     |                 |              | 4                         |                          |                         | 8                | j i              |               |              |             | \$ 1,980  | 2                         | 6                        |                         | \$ 800        | 20            | \$ 2,780    |
| 4          | Administrative Draft EIR                |                 | 37           |                           |                          |                         |                  |                  |               |              |             | \$ -      |                           |                          |                         | \$ -          | -             | \$ -        |
|            | Cultural Resources Survey and Reporting |                 |              | 6                         | 4                        |                         |                  | 32               |               |              | 24          | \$ 8.770  | 2                         | 5                        |                         | \$ 705        | 73            | \$ 9,475    |
|            | Administrative Draft PEIR Revisions     |                 |              | 8                         | 4                        | 4                       | 16               |                  | 4             | 16           | 12          | \$ 10,100 | 4                         | 2                        |                         | \$ 650        | 78            |             |
| i          |   |                 |              |                           |                          |                         |                  |                  |               |              |             | \$ -      |                           |                          |                         | \$ -          | E             | \$ -        |
|            |   |                 |              |                           |                          |                         |                  |                  |               |              |             |           |                           |                          | PV                      | /D Headquarte | ers Expansion | \$ 23,005   |
|            |   |                 |              |                           |                          |                         | 1                |                  |               |              |             | \$ -      |                           |                          |                         | \$ -          | 2             | \$ -        |
| Total Hour |   | 4               | -            | 58                        |                          | 4                       |                  |                  | 4             |              | 77          |           | 17                        |                          | 25                      |               | 467           |             |
|            | - Labor Costs                           | \$ 1,060        |              | \$ 11,310                 |                          |                         |                  |                  |               |              |             | \$ 56,070 |                           |                          |                         | \$ 7,850      |               | \$ 63,920   |
|            | Effort - Labor Hours Only               | 0.9%            | 0.0%         |                           |                          | 0.9%                    |                  | 8.6%             | 0.9%          |              | 16.5%       |           | 3.6%                      |                          | 5.4%                    |               | 100.0%        |             |
| Percent of | Effort - Total Project Cost             | 1.5%            | 0.0%         | 16.2%                     | 7.5%                     | 0.9%                    | 27.4%            | 8.0%             | 0.7%          | 6.9%         | 11.0%       |           | 2.8%                      | 5.6%                     | 2.9%                    |               |               | 91.3%       |

|                     | ESA Labor Costs  | \$   | 63,920       |
|---------------------|--|------|--------------|
|                     | ESA Non-Labor Expenses   |      |              |
|                     | Reimbursable Expenses (Printing, Mileage, Database fees) ESA Equipment usage (GIS/GPS) | \$   | 5,445<br>620 |
|                     | Subtotal ESA Non-Labor Expenses  | \$   | 6,065        |
| TOTAL PROJECT PRICE |  | \$ 6 | 39 985 NN    |

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE:** January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

FROM: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 7.4 – CONSIDERATION AND POSSIBLE ACTION

ON ELECTION OF SPECIAL DISTRICT LOCAL AGENCY FORMATION COMMISSION (LAFCO) REPRESENTATIVE AND ALTERNATE REPRESENTATIVE. (GENERAL MANAGER

LaMOREAUX)

The Palmdale Water District is entitled to cast one vote for a Special District Representative and one vote for a Special District Alternate Representative on the Local Agency Formation Commission (LAFCO). The candidates are as follows, and candidate statements are attached.

#### Representative:

- E.G. "Jerry" Gladbach, Castaic Lake Water Agency and Newhall County Water District
- Don Parazo, M.D., Antelope Valley Healthcare District

#### Alternate Representative:

- Don Parazo, M.D., Antelope Valley Healthcare District
- Joseph T. Ruzicka, Three Valleys Municipal Water District

#### **Strategic Plan Initiative/Mission Statement:**

This item is part of Strategic Initiative No. 5 – Regional Leadership. This item directly relates to the District's Mission Statement.

#### **Budget:**

This item will have no impact on the budget.

#### **Supporting Documents:**

- Special District LAFCO Representative and Alternate Representative ballot and instructions
- Nomination forms and candidate statements



## Lagerlof Senecal Gosnev & Kruse, LLP

301 NORTH LAKE AVENUE, 10TH FLOOR PASADENA, CALIFORNIA 91101

PHONE: (626) 793-9400 • FAX (626) 793-5900

William F. Kruse E-MAIL: WFKRUSE@lagerlof.com

TO:

PRESIDING OFFICER OF EACH INDEPENDENT SPECIAL DISTRICT IN

LOS ANGELES COUNTY

FROM:

WILLIAM F. KRUSE

RE:

BALLOT; SPECIAL DISTRICT LAFCO REPRESENTATIVE and LAFCO

ALTERNATE

DATE:

JANUARY 4, 2018

Enclosed is the Ballot and the supplementary materials submitted for each of the candidates for Special District LAFCO REPRESENTATIVE for the term expiring in May 2018 and for Special District LAFCO ALTERNATE for the term expiring in May 2018. Nominations closed as of 5:00 p.m. on December 21, 2017.

Please vote for ONE candidate on each BALLOT. The marked ballots should be placed in the envelope marked "Ballot Envelope." Please write the name of your agency and sign your name on the outside of the ballot envelope and return the completed ballots by mail to:

William F. Kruse, Esq. Lagerlof, Senecal, Gosney & Kruse, LLP 301 N. Lake Avenue, 10th Floor Pasadena, CA 91101-5123.

No ballot will be counted if it is missing the name of the voting agency and the signature of the Presiding Officer on the ballot envelope.

The candidate receiving the highest number of votes will be declared the special district representative or alternate to LAFCO. In the event of a tie, a new election will be held with only the two candidates who constituted a tie on the ballot.

#### Ballots must be returned by 5:00 p.m. on April 6, 2018.

WFK/pjc Enclosures

cc: Paul Novak, w/enc.

## **BALLOT**

## SPECIAL DISTRICT LAFCO $\underline{\mathbf{REPRESENTATIVE}}$

| Please vot | e for no more than      | one candidate.  |
|------------|-------------------------|---|
|            | E.G. "JERRY" GL         | ADBACH  |
|            | Occupation:             | Water District Director   |
|            | Sponsor:                | Castaic Lake Water Agency;<br>and Newhall County Water District |
|            |                         |   |
|            | DON PARA <b>D</b> O, M. | D.  |
|            | Occupation:             | Healthcare District Director                                    |
|            | Sponsor:                | Antelope Valley Healthcare District                             |

#### NOMINATION

OF

## INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE TO THE

## LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

| To:              | Independent Special District Selection Committee                                     |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|
| From:            | Castaic Lake Water Agency  |  |  |  |  |  |  |
| Date:            | November 20, 2017  |  |  |  |  |  |  |
| Name of Candi    | date: E. G. "Jerry" Gladbach   |  |  |  |  |  |  |
| Castaic Lake     | e Water Agency   |  |  |  |  |  |  |
| E. G. "Jerry'    | Gladbach is pleased to nominat   |  |  |  |  |  |  |
|                  | as a candidate for appointment as specia   |  |  |  |  |  |  |
| district REPRE   | SENTATIVE to the Los Angeles Local Agency Formation Commission. Th                   |  |  |  |  |  |  |
| nominee is an el | ected official or a member of the board of an independent special district appointed |  |  |  |  |  |  |
|                  | For your consideration, we submit the following additional information togethe       |  |  |  |  |  |  |
|                  | f the candidate's qualifications.  |  |  |  |  |  |  |
| Elective office: | Division 2 CLWA Director   |  |  |  |  |  |  |
| Agency:          | Castaic Lake Water Agency  |  |  |  |  |  |  |
|                  |  |  |  |  |  |  |  |
| Type of Agency:  | Water Wholesaler   |  |  |  |  |  |  |
| Term Expires:    | December 31, 2020  |  |  |  |  |  |  |
| Residence Addre  | 27491 Hillcrest Place, Valencia, CA 91354  |  |  |  |  |  |  |
|                  |  |  |  |  |  |  |  |
| Telephone:       | 661 297-2200   |  |  |  |  |  |  |
| PLEASE ATTAC     | H RESUME OR CANDIDATE STATEMENT (limit one page)                                     |  |  |  |  |  |  |
| Cas              | taic Lake Water Agency   |  |  |  |  |  |  |
|                  | (Name of Agency)   |  |  |  |  |  |  |
|                  | $\mathcal{O}(1000)$  |  |  |  |  |  |  |
|                  | By   |  |  |  |  |  |  |
|                  |  |  |  |  |  |  |  |

#### E.G. "Jerry" Gladbach



#### EXPERIENCE / COMMITMENT / DEDICATION

I would be honored to continue serving you on the Local Agency Formation Commission for Los Angeles County. As Chair of Los Angeles LAFCO I have urged the Commission to become more customer oriented. If reelected I would also be able to continue representing Los Angeles County on the California Association of Local Agency Formation Commissions' Board of Directors, even though I am not a member of the CALAFCO Board. Recognizing that Special Districts are an important segment of government in California, I will represent your concerns at LAFCO for Los Angeles County and CALAFCO.

#### LAFCO

| Chair                  | 2006 – present |
|------------------------|----------------|
| First Vice-Chair       | 2005 - 2006    |
| Commissioner           | 2002 - present |
| Alternate Commissioner | 2001 - 2002    |

#### California Association of LAFCOs

| President                           | 2011 - 2012 |
|-------------------------------------|-------------|
| Vice President                      | 2010 - 2011 |
| Treasurer                           | 2008 - 2010 |
| Secretary                           | 2006 - 2008 |
| Chair, CALAFCO Conference Committee | 2008        |
| Member, Board of Directors          | 2005 - 2013 |
| Member, Water Committee             | 2005 - 2008 |

#### Association of California Water Agencies (ACWA)

| President          |  | 2004 - 2005    |
|--------------------|--|----------------|
| Vice President     |  | 2002 - 2003    |
| Region Chair       |  | 1998 - 2001    |
| Board of Directors |  | 1998 - present |

#### ACWA - Joint Powers Insurance Authority

| President           | 2010 – present              |
|---------------------|-----------------------------|
| Executive Committee | 2002 - 2003, 2006 - present |
| Board of Directors  | 2002 – present              |

#### Castaic Lake Water Agency

| Board of Directors                           | 1985 – present |
|--|----------------|
| President                                    | 1987 - 1990    |
| Chair, Water Resources Committee             | 2003 - 2016    |
| Chair, Finance, Administration, PR Committee | 1991 - 2002    |

#### CALAFCO's "Outstanding Commissioner" Award 2013

Water Education Foundation, Board of Directors 1987 - 2009

Los Angeles Department of Water and Power

Leadership in Engineering, Management, Environmental Planning / retired after 35 years

Past Member, United States EPA Groundwater Task Force

Provided technical assistance to U.S. Commission on Water Quality

Past Member, Advisory Committee, CalPoly State University,

Civil and Environmental Engineering

Professional Engineer, Registered in California

Life Member, American Society of Civil Engineers

Master of Science Degree in Civil Engineering / Water Resources

#### PERSONAL

Married with 3 children, and 6 grandchildren, I have lived in the Santa Clarita Valley for over 45 years and have been devoted to community service for that entire period.

#### NOMINATION

OF

# INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE TO THE LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

| lo: Inde           | ependent Special District Sel | ection Committee                                   |
|--------------------|-------------------------------|--|
| From: Newhall      | County Water District         |  |
| Date: Novemb       | per 9, 2017                   |  |
| Name of Candidate  | E. G. "Jerry" Gladbac         | h  |
| Newha              | ll County Water District      | is pleased to nominat                              |
| E. G. "Jerry       | " Gladbach                    | as a candidate for appointment as specia           |
| district REPRESE   |                               | eles Local Agency Formation Commission. Th         |
|                    |                               | board of an independent special district appointed |
|                    |                               | omit the following additional information togethe  |
|                    | e candidate's qualifications. |  |
| Elective office:   | Board Director                | of Castaic Lake Water Agency                       |
| Agency:            | Castaic Lake Wa               | ter Agency   |
| Type of Agency:    | Public water whole            | saler  |
| Term Expires:      | January 2021                  |  |
| Residence Address: | 27234 Bouquet Cany            | on Road, Santa Clarita, CA 91350                   |
|                    |                               |  |
| Telephone:         | 661-297-1600                  |  |
| PLEASE ATTACH      | RESUME OR CANDIDATE           | STATEMENT (limit one page)                         |
|                    | whall County Water District   | 2 2 2 P 2 - /                                      |
| 8                  | (Name of                      |  |
|                    | By: Stephen L. Co             |  |

#### E.G. "Jerry" Gladbach





I would be honored to continue serving you on the Local Agency Formation Commission for Los Angeles County. As Chair of Los Angeles LAFCO I have urged the Commission to become more customer oriented. If reelected I would also be able to continue representing Los Angeles County on the California Association of Local Agency Formation Commissions' Board of Directors, even though I am not a member of the CALAFCO Board. Recognizing that Special Districts are an important segment of government in California, I will represent your concerns at LAFCO for Los Angeles County and CALAFCO.

#### LAFCO

| Chair                  | 2006 - present |
|------------------------|----------------|
| First Vice-Chair       | 2005 - 2006    |
| Commissioner           | 2002 - present |
| Alternate Commissioner | 2001 - 2002    |

#### California Association of LAFCOs

| President                           | 2011 - 2012 |
|-------------------------------------|-------------|
| Vice President                      | 2010 - 2011 |
| Treasurer                           | 2008 - 2010 |
| Secretary                           | 2006 - 2008 |
| Chair, CALAFCO Conference Committee | 2008        |
| Member, Board of Directors          | 2005 - 2013 |
| Member, Water Committee             | 2005 - 2008 |

#### Association of California Water Agencies (ACWA)

| President          | 2004 - 2005    |
|--------------------|----------------|
| Vice President     | 2002 – 2003    |
| Region Chair       | 1998 – 2001    |
| Board of Directors | 1998 – present |

#### ACWA - Joint Powers Insurance Authority

| President           | 2010 - present              |
|---------------------|-----------------------------|
| Executive Committee | 2002 - 2003, 2006 - present |
| Board of Directors  | 2002 – present              |

#### Castaic Lake Water Agency

| Board of Directors                           | 1985 - present |
|--|----------------|
| President                                    | 1987 - 1990    |
| Chair, Water Resources Committee             | 2003 - 2016    |
| Chair, Finance, Administration, PR Committee | 1991 - 2002    |

#### CALAFCO's "Outstanding Commissioner" Award 2013

Water Education Foundation, Board of Directors 1987 - 2009

Los Angeles Department of Water and Power

Leadership in Engineering, Management, Environmental Planning / retired after 35 years

Past Member, United States EPA Groundwater Task Force

Provided technical assistance to U.S. Commission on Water Quality

Past Member, Advisory Committee, CalPoly State University,

Civil and Environmental Engineering

Professional Engineer, Registered in California

Life Member, American Society of Civil Engineers

Master of Science Degree in Civil Engineering / Water Resources

#### PERSONAL

Married with 3 children, and 6 grandchildren, I have lived in the Santa Clarita Valley for over 45 years and have been devoted to community service for that entire period.

#### NOMINATION

OF

## INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE TO THE

## LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

| To: Indep             | pendent Special District Selection Co  | mmittee                                   |
|-----------------------|--|---|
| From: Kristina        | Hong Antelope Valley Health            | are District Board of Director            |
| Date: '2//            |  |   |
| Name of Candidate:    | Don Parazo, MD.                        |   |
| Antelipe Valle        | ey Healthcare District                 | is pleased to nominate                    |
|                       |  | a candidate for appointment as special    |
| district REPRESE!     | NTATIVE to the Los Angeles Loca        | l Agency Formation Commission. The        |
| nominee is an elected | d official or a member of the board of | an independent special district appointed |
| for a fixed term. For | r your consideration, we submit the f  | ollowing additional information together  |
| with a resume of the  | candidate's qualifications.            |   |
| Elective office:      | Antelope Valley Healthroare            | Distinct Brand of Directors               |
| Agency:               |  | Deluct                                    |
|                       |  |   |
| Гуре of Agency:       | Healthcare District                    |   |
| Term Expires:         | 11/4/18                                |   |
| Residence Address:    | 4/103 Carmel Read, Pa                  | Invale (1) 93551                          |
|                       |  |   |
| Telephone:            | (661) 917. 3639                        |   |
| PLEASE ATTACH I       | RESUME OR CANDIDATE STATE              | EMENT (limit one page)                    |
| Antelase              | (Name of Agency)                       | trict                                     |
| , · · ·               | By: Misting Hong Jolley                | Wallacar Travial                          |

## DON V. PARAZO, M.D. CURRICULUM VITAE

PERSONAL

Marital Status:

Married to Angela Chin

Children: Matthew and Stephanie

**EDUCATION AND TRAINING** 

Pre-Medical

University of Texas, El Paso

Major – Microbiology Minor – Chemistry

Graduate Studies - Immunology

Medical School

Texas Tech University School of Medicine

Post Graduate Training

R.E. Thomason General Hospital

Family Practice Residency

Military Service

Health Professions Scholarship Program Chief of Family Practice Department El Toro MCAS, Santa Ana, CA.

CERTIFICATION AND DEGREES

1984 - Present

American Board of Family Medicine

1996 - 2006

American Board of Family Medicine/Geriatrics

#### TEACHING EXPERIENCE

Clinical Instructor of 4 years - Glendale Adventist Family Practice Residency Program

#### PROFESSIONAL EXPERIENCE

1988 - Present

Chief, Family Practice Department

High Desert Medical Group, Lancaster, CA.

1990 - Present

Associate Medical Director

High Desert Medical Group, Lancaster, CA.

#### COMMITTEES AND APPOINTMENTS

2002 - Present

Antelope Valley Hospital Board of Directors

2008 - 2016

Association of California Healthcare Districts

Board of Directors Chairman of the Board

2013 - 2015

Chairman of the Board - Antelope Valley Hospital Medical Center

Family Practice Steering Committee Quality Assurance Committee Peer Review Committee Utilization Review Committee

1987 - Present

High Desert Medical Group / Heritage Medical Group

California ACO Medical Director

#### **BALLOT**

## SPECIAL DISTRICT LAFCO REPRESENTATIVE (ALTERNATE)

| riease voic | e for no more than | one candidate.  |  |
|-------------|--------------------|---|--|
| *           |                    | *   |  |
|             | DON PARAZO, M.     | D.  |  |
|             | -                  | Healthcare District Director  Antelope Valley Healthcare District |  |
|             |                    | i.  |  |

#### JOSEPH T. RUZICKA

Occupation: Water District Director

Sponsor: Three Valleys Municipal Water District

#### NOMINATION

OF

# INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE (ALTERNATE) TO THE LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

| lo: Inde             | pendent Special District Selection Committee                                      |
|----------------------|---|
| From: GISTING        | Hong, Antelope Valley Healthcare Distorch Board of Directors                      |
| Date:                | 15/17   |
| Name of Candidate    | : Don Parazo, M.D.  |
| Antilope Val         | ley Health Care District is pleased to nominate                                   |
| Dan Parazo           | MD Chair as a candidate for appointment as  |
| ALTERNATE spe        | ecial district representative to the Los Angeles Local Agency Formation           |
| Commission. The r    | nominee is an elected official or a member of the board of an independent special |
| district appointed f | or a fixed term. For your consideration, we submit the following additional       |
| information togethe  | or with a resume of the candidate's qualifications.                               |
| Elective office:     | Antelope Valley Healthcare District Board of Directors                            |
| Agency:              | Antelope Valley Healthrane District   |
|                      |   |
| Гуре of Agency:      | Healtheure District   |
| Term Expires:        | 11/6/18   |
| Residence Address:   | 41103 Carmel Rud Palmidale CA 93551   |
|                      |   |
| Telephone:           | (661) 917 3639  |
| please attach resum  | e - one page only)  |
| Antelo               | (Name of Agency)  |
|                      | By: Kristing Hong Musle He<br>Its: Divertor Antology Valley Healthcare District   |

## DON V. PARAZO, M.D. CURRICULUM VITAE

PERSONAL

Marital Status:

Married to Angela Chin

Children: Matthew and Stephanie

**EDUCATION AND TRAINING** 

Pre-Medical

University of Texas, El Paso

Major - Microbiology Minor - Chemistry

Graduate Studies - Immunology

Medical School

Texas Tech University School of Medicine

Post Graduate Training

R.E. Thomason General Hospital Family Practice Residency

Military Service

Health Professions Scholarship Program Chief of Family Practice Department El Toro MCAS, Santa Ana, CA.

CERTIFICATION AND DEGREES

1984 - Present

American Board of Family Medicine

1996 - 2006

American Board of Family Medicine/Geriatrics

#### TEACHING EXPERIENCE

Clinical Instructor of 4 years - Glendale Adventist Family Practice Residency Program

#### PROFESSIONAL EXPERIENCE

1988 - Present

Chief, Family Practice Department

High Desert Medical Group, Lancaster, CA.

1990 - Present

Associate Medical Director

High Desert Medical Group, Lancaster, CA.

#### COMMITTEES AND APPOINTMENTS

2002 - Present

Antelope Valley Hospital Board of Directors

2008 - 2016

Association of California Healthcare Districts

Board of Directors Chairman of the Board

2013 - 2015

Chairman of the Board - Antelope Valley Hospital Medical Center

Family Practice Steering Committee
Quality Assurance Committee
Peer Review Committee

Utilization Review Committee

1987 - Present

High Desert Medical Group / Heritage Medical Group

California ACO Medical Director

#### NOMINATION

OF

#### INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE (ALTERNATE) TO THE LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

| To: Indep  | pendent Special District Selection Committee                                     |
|--|--|
| From: Three Va   | lleys Municipal Water District   |
| Date: November   | er 15, 2017  |
| Name of Candidate:   | Joseph T. Ruzicka  |
| Three Valleys Mu   | nicipal Water District is pleased to nominate                                    |
| Joseph T. Ruzicka  |  |
| ALTERNATE spec   | cial district representative to the Los Angeles Local Agency Formation           |
|  | ominee is an elected official or a member of the board of an independent special |
| district appointed for   | r a fixed term. For your consideration, we submit the following additional       |
| information together   | with a resume of the candidate's qualifications.                                 |
| Elective office:   | Director, Division 5   |
| Agency:  | Three Valleys Municipal Water District   |
| Type of Agency:  | California Special District  |
| Term Expires _ Dec   | ember 7, 2018  |
| Residence Address:   | 22311 E. Birds Eye Drive   |
| Annual Control of the | Diamond Bar, CA 91765  |
| Telephone:   | 909-861-7406   |
| (please attach resume  | - one page only)   |
| Three Valleys Mur  | nicipal Water District   |
|  | (Name of Agency)   |
|  | By: Bob Kuhn Its: Board President  |



# Candidate Statement of Joseph T. Ruzicka Nominee for LAFCO Independent Special District Representative—Alternate Member

Joe Ruzicka, a 42-year Diamond Bar resident and retired Regional Manager for the U.S Railroad Retirement Board, with operational and administrative responsibilities for all Southern California, would bring many years of public and volunteer service experience as the LAFCO Independent Special District Representative – Alternate Member.

I have served on the various committees that led to the eventual incorporation of the City of Diamond Bar, where immediately after the incorporation I was appointed from 1989 to 1996 as an inaugural member of the Diamond Bar Parks & Recreation Commission and was instrumental in instituting several new programs that accommodated the needs of youth sports organizations and also helped to initiate the popular "Concerts in the Parks" series. I was then appointed as a Planning Commissioner for the City of Diamond Bar from 1997 to 2003, during which time there were many accomplishments including the successful development of some 425 acres in the heart of the City I resigned from the Planning Commission to serve on the Three Valleys MWD Board of Directors

As a member of the Three Valleys Board of Directors, among other appointments, I currently serve as the Three Valleys' representative to the LAFCO Commission as the alternate voting member for Special Districts; in that capacity I have attended nearly all meetings of the commission since my appointment.

I have also served the City of Diamond Bar as President of the local Little League, as a member of the Walnut Valley Rotary Club (past president) and as a Board Member of the Diamond Bar Improvement Association. I am an eight-year Marine Corp veteran in both active and reserve duty (1954-1962). For nine years I was the Executive Director of the San Gabriel Valley Mediation Center.



**BOARD OF DIRECTORS** 

Brian Bowcock
David D. De Jesus
Carlos Goytia
Dan Horan
Bob Kuhn
John Mendoza
Joseph T. Ruzicka

GENERAL MANAGER/CHIEF ENGINEER Richard W. Hansen, P.E.

RECEIVED

JAN 1 6 2018

January 9, 2018

Palmdale Water District 2029 East Avenue Q, Palmdale, CA 93550

Re: Consideration of Support for Joe Ruzicka as the Independent Special District LAFCO Representative—Alternate

Dear Sir / Madam:

As a part of the selection process for the Special District LAFCO Representative—Alternate, Three Valleys Municipal Water District has nominated me, Joe Ruzicka to run for this seat. I am asking your organization to concur with this nomination and encourage your agency's vote in my support.

In supporting me, the LAFCO Board would receive the benefit of my many years of local and regional involvement along with proven problem-solving expertise. As the Three Valleys' Board's representative to LAFCO, I have attended nearly all of the meetings and am able to master the intricacies of the LAFCO process.

In both my public and professional activities I hope and strive to create positive influences and significant and important contributions.

Also, for your convenience and review, I have attached my candidate statement and resume. If I may answer any questions regarding this nomination, please contact me at (909) 861-7406.

Most Sincerely,

Three Valleys Municipal Water District

Joseph T. Ruzicka

Board Member, Division 5

Attachment

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE**: January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

FROM: Ms. Judy Shay, Public Affairs Director

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 7.5 – CONSIDERATION AND POSSIBLE ACTION

ON OUTREACH ACTIVITIES FOR 2018. (PUBLIC AFFAIRS

**DIRECTOR SHAY**)

A detailed report on Outreach activities, as listed on the agenda, will be provided at the Board meeting.



# AGENDA ITEM NO. 7.6 Hotel and Travel Accommodations

# **Event Name/Date:**

| CONTACT INFOR   |                       |                       |  |
|---|-----------------------|-----------------------|--|
| First Name  | Last I                | Name                  | Date   |
| 12  |                       |                       |  |
| ACCOMMODATIO  | N INFORMATIO          | ON                    |  |
| guarantee a room at the   | host hotel. In the en | vent that the host ho | nit this form as soon as possible otel is booked, every effort will be tes to the event discounted rate. |
|   |                       |                       |  |
| Arrival Date De   | eparture Date         | No. of guests         | Room Type  |
| Arrival Date De   | eparture Date         | No. of guests         | Room Type  |
|   |                       | No. of guests         | Room Type  |
|   |                       | No. of guests         | Room Type  |
| Do you require a smokin   |                       | No. of guests         | Room Type  |
| Do you require a smokin  Yes  No                                    | g room?               |                       |  |
| Do you require a smokin   | g room?               |                       |  |
| Do you require a smokin  Yes No  Do you need transpor  Yes No       | g room?               |                       |  |
| Do you require a smokin  Yes No  Do you need transpor  Yes No       | g room?               |                       |  |
| Do you require a smokin O Yes O No  Do you need transpor O Yes O No | g room?               |                       |  |
| Do you require a smokin  Yes No  Do you need transpor               | g room?               | airport to the hote   |  |

# Announcement!



# **NEW**

# PALMDALE SCHOOL DISTRICT FOUNDATION

A California Nonprofit Public Benefit Corporation

#### Purpose of the foundation:

The Corporation is a nonprofit public benefit corporation and is not organized for the private gain of any person. It is organized under the Nonprofit Corporation Law of California ("California Nonprofit Corporation Law") for public and charitable purposes. The specific purpose of the Corporation is to advance education in the Palmdale School District. The foundation is organized and operated exclusively for public and charitable purposes and which has established its tax-exempt status under Section 501(c)(3) of the Code.

#### **Foundation Board of Directors**

| Director                                 | Name           | Position    |
|--|----------------|-------------|
| Superintendent                           | Raul Maldonado | Chairperson |
| PSD Administrator                        | Barbara Gaines | Secretary   |
| PSD Business Services Representative     | Maria Alatorre | Treasurer   |
| Trustee                                  | Nancy Smith    | Director    |
| Trustee                                  | Sharon Vega    | Director    |
| Assistant Superintendent of Ed. Services | Elena Esquer   | Director    |
| PSD Administrator                        | Candace Craven | Director    |
| Business Partner                         | Jaime Ortiz    | Director    |
| Community Member                         | Open           | Director    |
| Community Member                         | Open           | Director    |
| PSD Parent                               | Open           | Director    |



# Hotel and Travel Accommodations

# **Event Name/Date:**

| CONTACT INFORM                               |                                      | D-1-   |
|--|--------------------------------------|--|
| First Name                                   | Last Name                            | Date   |
|  |                                      |  |
| ACCOMMODATION                                | INFORMATION                          |  |
| guarantee a room at the l                    | host hotel. In the event that the ho | submit this form as soon as possible st hotel is booked, every effort will be le rates to the event discounted rate. |
|  |                                      |  |
| Arrival Date De                              | parture Date No. of guests           | Room Type  |
|  |                                      |  |
|  | HONGER SEATON (                      |  |
| Do you require a smoking                     | groom?                               |  |
|  | groom?                               |  |
| ○ Yes ○ No                                   |                                      | hotel?   |
|  | tation from the airport to the       | hotel?   |
| O Yes O No  Do you need transport O Yes O No |                                      | hotel?   |
| Yes No  Do you need transport Yes No         | tation from the airport to the       | hotel?   |
| Yes No  Do you need transport Yes No         | tation from the airport to the       | hotel?   |
| O Yes O No  Do you need transport            | tation from the airport to the  Time | hotel?  Staff Representative   |



Distribution Grades 1-2

# Distribution Certification Review Grades 1-2 Complete 2018 Schedule

California Rural Water Association (CRWA) is offering a series of two-day review classes designed to enhance your working knowledge of water distribution. Classes include a pre-test, detailed instruction on the expected range of knowledge for distribution operators, and practice exams. This format helps operators brush up on the many aspects of distribution systems, and assists students with test-taking skills. *Please bring a calculator with a ten-digit display*.

| First Semester:  | Second Semester:                                       |
|--|--|
| □ January 31 – February 1, 2018: Lompoc (Santa Barbara County) | □ August 1-2, 2018: San Andreas (Calaveras County)     |
| ☐ February 7-8, 2018: Morgan Hill (Santa Clara County)         | ☐ August 1-2, 2018: Bakersfield (Kern)                 |
| ☐ February 14-15, 2018: Rohnert Park (Sonoma County)           | □ August 22-23, 2018: Modesto (Stanislaus County)      |
| ☐ February 14-15, 2018: Seaside (Monterey County)              | □ August 29-30, 2018: Brawley (Imperial County)        |
| ☐ February 21-22, 2018: Apple Valley (San Bernardino County)   | ☐ August 29-30, 2018: Sacramento (Sacramento County)   |
| ☐ February 21-22, 2018: Eureka (Humboldt County)               | ☐ September 5-6, 2018: West Covina (Los Angeles County |
| ☐ February 28 – March 1, 2018: Hughson (Stanislaus County)     | ☐ September 12-13, 2018: Arvin (Kern County))          |
| ☐ February 28 – March 1, 2018: Palmdale (Los Angeles County)   |  |
| ☐ March 7-8, 2018: Alturas (Modoc County)                      |  |
| ☐ March 7-8, 2018: Sonora (Tuolumne County)                    |  |
| ☐ March 14-15, 2018: Manteca (San Joaquin County)              |  |
|  |  |
|  |  |

Contact Hours: Each day of class is worth 6 SWRCB Water Contact Hours and 6 REHS/ CEUs

Class Schedule: SIGN IN - 8:00 am | CLASS - 8:30 am - 3:30 pm | LUNCH - 12:00 pm - 1:00 pm (on your own)

#### Information for the Attendee:

- A confirmation letter and map will be EMAILED to you within two weeks of the class date so please make sure your email address is valid.
- All registrants who have registered and paid for the class at least seven business days prior to the class will receive their certificate on-site.
- If any registrant requires special accommodations for disabilities, please contact our office at 800-833-0322 Cancellations must be
  received by CRWA in writing five business days prior to the event to qualify for a refund.
- Cancellations received within this time frame will be subject to a refund less a \$25 processing fee.
- All class transfer requests must be received five business days prior to the class and are subject to CRWA approval. Transfers will
  only be valid within the same calendar year.

For more in-depth training, and registration information, please visit www.cairuralwater.org or call 800.833.0322.

| Register Now!                                    | CRWA MEME  | BERS: \$250       | NON MEMBERS: \$35                  |
|--|--|-------------------|------------------------------------|
| Attendee(s) Name(s):                             |  | _ Current Dist.   | Grade: 012345                      |
| System/Company Name:                             |  | Taking Cert       | Exam? Yes/no                       |
| System/Company Address:                          |  |                   |                                    |
| Gity:  | State:   | Zip:              |                                    |
| Phone:   | FAX:   | Email:            |                                    |
| Mailing Address for Certificate(s):              |  |                   |                                    |
| ☐ CRWA Member (\$250 per student)                | □ Non-Member (\$350 per student)                 | Payment Tot       | al: \$                             |
| ☐ Check to follow in mail (payable to C          | CRWA)   □ Credit Card (print info belo           | ow)               |                                    |
| Credit Card #:                                   |  | _ Expiration Da   | ate:                               |
| Authorized Signature:                            |  |                   |                                    |
| CPMA is a 501(c)(2) non profit association provi | dly consing California's email water and wastewa | tor organizations | Tan into a great recourse for your |

CRWA is a 501(c)(3) non-profit association proudly serving California's small water and wastewater organizations. Tap into a great resource for your system! For information on becoming a CRWA member, please call 800.833.0322 or visit www.calcuralwater.crg.

TO REGISTER:

Please fax this form to 916-553-4904

Or email to cubaldo@calruralwater.org

Or mail to CRWA, 1234 North Market Blvd, Sacramento, CA 95834

Opt-out: If you wish to be taken off our distribution list, please call 800.833.0322 or email ccolson@calruralwater.org



# Hotel and Travel Accommodations

# **Event Name/Date:**

|  | TINT                              |   |
|--|-----------------------------------|---|
| First Name   | Last Name                         | Date  |
|  |                                   |   |
| ACCOMMODATION IN   | IFORMATION                        |   |
| guarantee a room at the host   | hotel. In the event that the h    | d submit this form as soon as possible to a soon as possible to the sooked, every effort will be able rates to the event discounted rate. |
| Arrival Date Depart  | ture Date No. of gues             | ts Room Type  |
| Arrival Date Depart  | interbate 140. or gues            |   |
|  |                                   |   |
|  |                                   |   |
| Do you require a smoking roo   | om?                               |   |
| Do you require a smoking roo O Yes O No  Do you need transportation      | om?                               |   |
| Do you require a smoking roo  Yes No  Do you need transportation  Yes No | om?<br>on from the airport to the |   |
| Do you require a smoking roo O Yes O No  Do you need transportation      | om?                               |   |
| Do you require a smoking roo  Yes No  Do you need transportation  Yes No | om?<br>on from the airport to the |   |
| Do you require a smoking roo  Yes No  Do you need transportation  Yes No | on from the airport to the        |   |





Antelope Valley Hispanic Chamber of Commerce

Sponsorship | Adverstising | Tickets

March 23rd 2018 • 6pm • UAV Grand Ballroom



# **PLATINUM**

\$3,000°° | GOLD

\$2,00000

- 2 Tables of 10
- Full page ad Inside Cover
- Mention on all event advertising
- 33"x81" Retractable Banner
- Table Recognition
- Sponsorship Plaque
- 1 Year 2018 Luncheon Pass for 2
- 1 Year 2018 Breakfast Pass for 2
- Banner placed at all 2018 Luncheons
- 1 Year advertising on our Website

- 1 Table of 10
- Full page ad Inside Back Cover
- Mention on all event advertising
- 33"x81" Retractable Banner
- Table Recognition
- Sponsorship Plaque
- 1 Year 2018 Luncheon Pass for 2
- 1 Year 2018 Breakfast Pass for 2
- 6 Month advertising on our Website

# SILVER

\$1,500° COPPER

\$1,000°°

- 4 Installation tickets
- 1/2 Page Ad
- Mention on all event advertising
- 33"x81" Retractable Banner
- Table Recognition
- Sponsorship Plaque
- 1 Year 2018 Luncheon Pass for 2
- 3 Month advertising on our Website

- · 2 installation tickets
- 1/4 Page ad
- Mention on all event advertising
- · 33"x81" Retractable Banner
- Table Recognition
- Sponsorship Plaque

# **BRONZE**

\$500°°

# Magazine Advertising

- · 2 installation tickets
- 1/10th Page Ad
- Mention on all event advertising

City/Zip:

E-Mail:

Table Recognition

Signature: \_

Sponsorship Plaque

- Outside Back Cover \$75000 Full Page \$50000 Deadline Is Half Page \$30000 Feb 15th 2018
- Quarter Page \$17500 Business Card (1/10) \$8000
- Send Artwork To: jorge@venturagraphix.com

Name: \_\_\_ ☐ Platinum Sponsor ☐ Copper Sponsor Company: ☐ Gold Sponsor ☐ Bronze Sponsor Address:

For more information contact the AV Hispanic Chamber of Commerce at 661-538-0607 or email avhispanicchamber@gmail.com

☐ Table of 10 \$550

☐ 1 Ticket \$65 ☐ 2 Tickets \$100

☐ Other ☐ Silver Sponsor

**Credit Card Information** 

☐ Visa ☐ MasterCard ☐ American Express

No: \_\_\_\_\_

Billing Address: \_

Exp:\_\_\_\_\_CVC\_\_

Prices are good until March 5, 2018. Table will cost \$600 and tickets will all be \$65 per person after March 5, 2018.



# Hotel and Travel Accommodations

# **Event Name/Date:**

| First Name   | Last Name                       | Date  |
|--|---------------------------------|---|
| That it wante  |                                 |   |
| ACCOMMODATION IN   | FORMATION                       |   |
| guarantee a room at the host   | hotel. In the event that the ho | submit this form as soon as possible<br>st hotel is booked, every effort will b<br>le rates to the event discounted rate. |
| Arrival Date Depart  | ure Date No. of guests          | Room Type   |
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| ○ Yes ○ No   |                                 | hotel?  |
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| Do you need transportatio  | on from the airport to the      | hotel?  |
| <ul><li>○ Yes ○ No</li><li>Do you need transportation</li><li>○ Yes ○ No</li></ul> | on from the airport to the      | hotel?  |

#### Michael A. Williams

From:

The P3 Water Summit <info@thep3conference.com>

Sent:

Thursday, January 04, 2018 7:59 AM

To:

Michael A. Williams

Subject:

The Role of Partnerships in Water Systems for 2018



April 3-4, 2018
Grand Hyatt | San Diego

Early Registration Ends
January 12th: Save \$300



When critical projects are not financially feasible under your current program, what are the alternative ways of funding them? What options are available for your water system?

Across the country communities are evaluating performance based contracts, public-private partnerships, and alternative delivery models to help design, build, finance, operate, and maintain their water, sewer, and drainage systems. The P3 Water Summit invites water managers to learn more about current and best practices in project delivery as well as recent and upcoming water projects.

Learn how water agencies of all sizes have been able to address longstanding challenges in their systems. Discover new project opportunities and partners for your next water, wastewater, or stormwater project.

The P3 Water Summit is where the public and private sector meet to discuss water challenges and find solutions. Last year more than 500 water managers and industry leaders met to discuss project delivery and find solutions to their system challenges.

If you're evaluating major investment or preparing a procurement or trying to address deferred O&M in your system, consider attending this April.

Details on the 2018 program are below. Register today to save \$300.

## **LEARN MORE**

# A Roadmap To Service Improvement



With a program that digs deeply into understanding how P3s can help improve service quality, address deferred O&M, attract skilled talent, and deliver needed system improvements.

# The 2018 P3 Water Summit Program

The 2018 program focuses on best practices, contracts, and structures that have been successfully used in partnerships to deliver projects across the United States.

Our agenda examines current trends in project delivery and explores:

- The risks, merits, applications, and feasibility of a P3 project
- How to best structure your next procurement
- Funding and financing options available today
- Setting standards and performance metrics in partnerships
- How to score, select, and negotiate with prospective partners
- Solutions for rural communities and smaller projects
- Ways to participate in the WIFIA Program, work with State Revolving Funds, and develop hybrid public/private financing for your next project.

Over 85 public water operators and industry practitioners will present their observations and experiences, discuss water projects currently in the market, and detail structures and best practices used in developing, building, and maintaining systems of all sizes.

## **VIEW PROGRAM**

# Who Attends the P3 Water Summit?



Utility managers and water professionals who want to understand how P3's can improve the performance and reliability of their water, waste, and storm water systems.

#### The P3 Water Summit Audience

Public attendees include utility operators, system managers, public works directors, state and local water authority administrators; EPA, BLM, USDA, and Army Corps of Engineers representatives; county supervisors, city managers, resiliency officers, and representatives of municipal water systems of all sizes.

Private sector attendees include senior professionals from utilities, water service, engineering, construction, law, design, development, banking, and consulting firms.

Public and private summit attendees benefit from incredible networking opportunities, build relationships with project owners, share best practices, learn current trends in system management, and discover new methods to address challenges in their water systems.

For more information on participating agencies, please visit our website.

## **SEE WHO ATTENDS**

# Where the Public and Private Sector Meet



# 2018 Program: 85+ Speakers, 25+ P3 Sessions, Workshops, Extensive Networking, and More!

Whether it's \$3 or \$300 million dollars of required investment, how do you ensure you are evaluating the best project delivery options available?

This April we will host project owners from across the country to learn how P3 can be used to overcome funding shortages and deliver critical water projects and improvements to their systems.

Attendees will learn from the managers and capital providers who used partnerships to make significant investments in their water systems, the policy makers who created legislation and financing programs to facilitate P3's, and the industry partners and P3 advisers who have helped bring these projects into operation.

Through seminars, workshops, case studies, roundtables, and extensive networking; Summit attendees meet experienced P3 practitioners and other owners as they discuss alternative delivery models from the technical, procurement, capital financing, risk management, and policy perspectives.

2018 Workshops and Panel Sessions include:

#### Strategies for Deferred O&M

A session focused on mounting challenges faced by agencies, and techniques to attract talent and resources needed to address growing risks in your system.

#### Techniques for Bridging the Gap

How to identify where your system stands versus industry standards. And learn how partnerships can be used to improve performance and quality of service.

#### Financing Solutions for Smaller Communities

Partnerships don't just have to apply to billion dollar urban water systems. P3 projects of \$5 to \$15 million dollars and even less are possible and have been done. Learn how P3's can work for smaller communities and systems supporting populations of fewer than 50,000 people.

#### Attracting the Right Partner: Procuring P3s

Through our procurement workshop we address best practices in selecting and negotiating with prospective partners and keys to managing partnerships.

#### Understanding the Different Types of Water P3s

Does a long term O&M contract or a DBO qualify as a P3? What are the different financing approaches? Do partnership even have to include financing?

#### P3s for Reliability & Sustainability

How can partnerships help your achieve your community's resiliency and sustainability goals? In what ways can partnerships help rebalance your water portfolio? Agencies and advisers that have engaged in P3s to achieve such ends will present their lessons learned and best practices.

#### **Project Showcases**

Learn about recent P3 projects and upcoming RFPs. Hear directly from project owners as they describe their project delivery experiences: from procurement to financing, from design to construction and operation. Speakers will discuss the partnership experience and current present data and details from their projects.

## **VIEW MORE SESSIONS**

The P3 Water Summit Is Supported By:

- Diamond Sponsor

Platinum Sponsor



**AECOM** 





- Gold Sponsor











- Silver Sponsor

Trade Association









**VISIT OUR WEBSITE FOR MORE!** 

**TO SAVE \$300** 

P3 Water Summit, 607 Rockefeller, Irvine, CA 92612

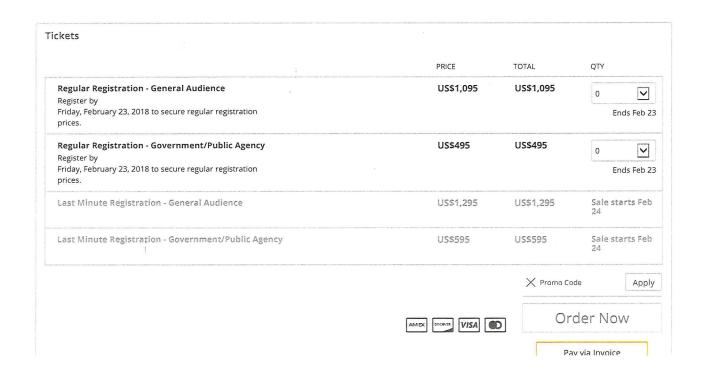
SafeUnsubscribe™ mawilliams@palmdalewater.org

Forward email | Update Profile | About our service provider

Sent by info@thep3conference.com

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The P3 Water Summit Page 5 of 5



## **STAY INFORMED**

Stay up-to-date on industry news, event information, and latest program developments.

| First Name* | Last Name* | Email Address* |
|-------------|------------|----------------|
|             |            |                |
|             |            |                |

Request Info



#### **EXPLORING THE APPLICATION OF PUBLIC-PRIVATE PARTNERSHIPS**





The beautiful Manchester Grand Hyatt San Diego Hotel is our event headquarters. A block of rooms are being held at the hotel at a special rate of \$219. Reservations must be made by March 16, 2018 or before the block is sold out in order to guarantee this rate. Reservations made after this date can only be honored on a space and rate available basis.

To make your hotel reservations, please click here (https://aws.passkey.com/event/49500829/owner/414/home) or call the hotel directly at (619) 232-1234 and identify yourself as part of The P3 Water Summit



# Hotel and Travel Accommodations

# **Event Name/Date:**

| CONTACT INFORMATION  | ON                        |   |
|--|---------------------------|---|
| First Name   | Last Name                 | Date  |
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| ACCOMMODATION INF  | ORMATION                  |   |
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|  |                           | d submit this form as soon as possible t  |
|  |                           | ost hotel is booked, every effort will be ble rates to the event discounted rate. |
|  | <b>*</b>                  |   |
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| ○ Yes ○ No  Do you need transportation   |                           | e hotel?  |
| Yes No  Do you need transportation  Yes No   |                           | e hotel?  |
| Yes No  Do you need transportation  Yes No   | a from the airport to the | e hotel?  |
| Yes No  Do you need transportation  Yes No   | a from the airport to the | e hotel?  |
| O Yes O No  Do you need transportation O Yes O No Flight Number                    | from the airport to the   | e hotel?  Staff Representative  |
| <b>Do you need transportation</b> O Yes O No  Flight Number                        | from the airport to the   |   |
| <ul><li>○ Yes ○ No</li><li>Do you need transportation</li><li>○ Yes ○ No</li></ul> | from the airport to the   |   |
| O Yes O No  Do you need transportation O Yes O No  Flight Number                   | from the airport to the   |   |



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#### Save the Date! 2018 Western District Conference

View All Events (/attend/)

#### **PRSA Western District**



The Public Relations Society of America (http://www.prsa.org/) is the largest public relations organization in the world, with more than 22,000 members nationwide. The Western District is one of 10 regions established by PRSA and covers 11 chapters in five western states comprising more than 2,200 members. Our goal is to provide a continuum of training, networking and advancing the public relations profession by offering a Western District Conference, building relationships with our chapters and creating organizational strength by consistently refining and honing our training, networking activities, events and board meetings.

Read more (/about)

MEMBER THURSDAY ONLY

Lunch Keynote

Thursday general sessions and keynote only

Thursday Sessions

Friday Sessions

Buy Now (http://prsacolorado.org/meetinginfo.php?id=40&ts=1509T2342I\_http://prsacolorado.org/meetinginfo.php?id=40&ts=1513123174)

All keynotes

Food throughout event

Buy Ticket (http://prsacolorado.org/meetinginfo.php?id=40&ts=1

LUNCH ONLY NON-MEMBERS

NON MEMBER THURSDAY ONLY

Thursday Sessions and Keynote Only

NON MEMBER CONFERENCE

Friday Sessions All keynotes

Food throughout event

Buy Ticket (http://prsacolorado.org/meetinginfo.php?id=40&ts=1

#### **Executive Board**





JAN HOWARD, APR (HTTP://PRSAWESTERNDISTRICT.ORG /SPEAKER/JAN-HOWARD-APR/)



AMY BOUCHARD, APR (HTTP://PRSAWESTERNDISTRICT.ORG /SPEAKER/AMY-BOUCHARD-APR/) Immediate Past Chair (Las Vegas )



KEITH R. PILLOW, MBA, APR (HTTP://PRSAWESTERNDISTRICT.ORG /SPEAKER/KEITH-R-PILLOW-MBA-APR/)

AARON NORRIS, MBA, APR, CSPG (HTTP://PRSAWESTERNDISTRICT.ORG/SPEAKER/AARON-NORRIS-MBA-APR-CSPG/)

Treasurer and 2017 Conference Chair (Inland Empire)



CHRIS PEREZ, APR (HTTP://PRSAWESTERNDISTRICT.ORG /SPEAKER/CHRIS-PEREZ-APR/) Special Events Chair (Inland Empire)



PATRICE LEHERMEIER, APR (HTTP://PRSAWESTERNDISTRICT.ORG /SPEAKER/PATRICE-LEHERMEIER-APR/)

#### From Our Blog

(http://prsawesterndistrict.org /going-for-the-get-unleashing-your-persuasive-power-to-getwhat-you-want/)

22 Feb 2017 Going for the "Get": Unleashing Your Unleashing Your
Persuasive Power to Get
What You Want
(http://prsawesterndistrict.
org/going-for-the-getunleashing-yourpersuasive-power-to-getwhat-you-want/)



/welcome-prmatters-prs-rolein-driving-organizations-jane/)

21 Feb 2017

Welcome- #PRMatters -PR's Role in Driving Organizations (Jane) (http://prsawesterndistrict. org/welcome-prmatters-prs-role-in-driving-organizations-jane/)



/ryan-holiday-author-and-media-manipulator-trust-meim-lying-the-future-of-mediaand-pr/)

21 Feb 2017

RYAN HOLIDAY, AUTHOR AND MEDIA
MANIPULATOR, "TRUST
ME I'M LYING: THE
FUTURE OF MEDIA AND PR"
(http://prsawesterndistrict.

org/ryan-holiday-author-and-media-manipulator-trust-me-im-lying-the-future-of-media-and-pr/)

1845 Chicago Ave., Ste. C, Riverside, CA 92507





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AWARDS ~

(http://prsawesterndistrictspeakers >

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# **Schedule**

↑ HOME (HTTP://PRSAWESTERNDISTRICT.ORG) / SCHEDULE

The Conference will be April 12-13, 2018 in Denver, Colorado. The 2018 conference schedule will be available closer to the date. Download the 2017 Conference Program (http://prsawesterndistrict.org/wp-content/uploads/2016/08/PRMatters-Program.pdf) for reference.

| 11        | # | SESSION  | SPEAKER(S)   |
|-----------|---|--|--|
| Apr, 2018 | 1 | APR BOOTCAMP (HTTP://PRSAWESTERNDISTRICT.ORG /PRODUCT/APR-BOOTCAMP/)                         | MIKE DAILY, APR (HTTP://PRSAWESTERNDISTRI- /SPEAKER/MIKE-DAILY-APR/) |
|           | 2 | LEADERSHIP DEVELOPMENT PROGRAM (HTTP://PRSAWESTERNDISTRICT.ORG /PRODUCT/LEADERSHIP-SESSION/) |  |

| # | SESSION                                      | SPEAKER(S) |
|---|--|------------|
| 3 | WESTERN DISTRICT CONFERENCE<br>BOARD MEETING |            |
|   | · ·  |            |
| 4 | WELCOME PARTY                                |            |

**12**Apr, 2018

| # | SESSION                       | SPEAKER(S)  | TIME                         |
|---|-------------------------------|---|------------------------------|
| 1 | REGISTRATION<br>& BREAKFAST   |   | 8:00<br>AM -<br>9:00<br>AM   |
| 2 | OPENING<br>GENERAL<br>SESSION |   | 9:00<br>AM -<br>9:30<br>AM   |
| 3 | OPENING<br>KEYNOTE            | SHONALI BURKE, ABC (HTTP://PRSAWESTERNDISTRICT.ORG /SPEAKER/SHONALI-BURKE-ABC/) | 9:40<br>AM -<br>10:45<br>AM  |
| 4 | BREAKOUT<br>SESSION 1         |   | 10:55<br>AM -<br>11:45<br>AM |
| 5 | LUNCHEON<br>KEYNOTE           | PETER SHANKMAN<br>(HTTP://PRSAWESTERNDISTRICT.ORG<br>/SPEAKER/PETER-SHANKMAN/)  | NOON<br>- 1:30<br>PM         |
| 6 | BREAKOUT<br>SESSION II        |   | 2:00<br>PM -<br>2:50<br>PM   |
| 7 | BREAKOUT<br>SESSION III       |   | 3:00 -<br>3:50<br>PM         |

| # | SESSION                       | SPEAKER(S) | TIME                 |
|---|-------------------------------|------------|----------------------|
| 8 | AFTERNOON<br>KEYNOTE<br>PANEL |            | 4:00 -<br>5:00<br>PM |
| 9 | DINE AROUND                   |            | ТВА                  |

| 13        | # | SESSION                     | SPEAKER(S) | TIME                       | VENUE |
|-----------|---|-----------------------------|------------|----------------------------|-------|
| Apr, 2018 | 1 | REGISTRATION &<br>BREAKFAST |            | 8:00<br>AM -<br>8:45<br>AM |       |
|           | 2 | MORNING<br>KEYNOTE          |            | 8:45 -<br>9:50<br>AM       |       |
|           | 3 | BREAKOUT SESSION IV         |            | 10:00 -<br>10:50<br>AM     |       |
|           | 4 | BREAKOUT<br>SESSION V       |            | 11:00 -<br>11:50<br>AM     |       |
|           | 5 | CLOSING<br>KEYNOTE          |            | NOON<br>- 1:00<br>PM       |       |

PM

(http://prsawesterndistrict.org)

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- **f** (https://www.facebook.com/PRSAWD/) **y** (https://twitter.com/prsawestdist)
  - 8+ (https://plus.google.com/u/0/105034925838831342180/videos)
  - (https://www.youtube.com/channel/UC0d0MtyJya-N-viqHXQbytQ)
    - in (https://www.linkedin.com/groups/2053909/profile)
      - (https://www.instagram.com/prsawestdist/)

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ATTEND (HTTP://PRSAWESTERNDISTRICT.ORG/ATTEND/)

# Venue

A / HOME (HTTP://PRSAWESTERNDISTRICT.ORG) / VENUE

## **Coors Field**

2001 Blake St, Denver, CO 80205





#### Welcome!

Welcome to Denver! The conference will be held in downtown Denver at Coors Field, home of the Colorado Rockies.

#### Hotel

The conference hotel will be the brand new Maven Hotel (https://www.themavenhotel.com/), just a short walk from Coors Field. The conference rate is \$199. Call and mention PRSA Western District to take advantage of the room block and special rate. Hotel amenities include:

- · In-Room Pour-Over Coffee
- · Complimentary High Speed WIFi
- In-Room Filtered Water
- Complimentary Transportation in a two-mile
- 10% Discount of off services and 20% Discount on retail purchases at the Oxford Spa.
- Complimentary Coffee Beverage at Lobby Coffee Kiosk
- Complimentary Beer or Margarita at Lobby Kiosk
- Complimentary online access to the New York Times
- 25% discount on all food and non-alcoholic beverages at Pig Train Coffee, Milkbox, ACME and Terminal Bar, which are all located a few blocks away inside Denver Union Station

#### **Parking**

Parking at the hotel is discounted to \$29/day with our block.

Parking at Coors Field is free during the conference in the Coors Field Main Parking Lot A (see map (http://prsawesterndistrict.org/wp-content/uploads/2018/01/Parking-Info-Gate-C-Attendee.Event-Entrance.pdf)). Access to this lot is from Park Avenue and Wazee Streets. You may park in any available space. This lot is free; however, there is a large flight of stairs to the left of Gate A you must use to get to our conference located at Gate C. View parking map and directions (http://prsawesterndistrict.org/wp-content/uploads/2018/01/Parking-Info-Gate-C-Attendee.Event-Entrance.pdf).

#### **Travel**

Hop aboard the A Line train (https://www.denver.org/about-denver /transportation/airport-rail/) from Denver International Airport to travel downtown to Union Station for just \$9. Between conference sessions, you can easily stroll through downtown or grab the free 16th Street Mall Shuttle or try Denver B-cycle city bikes for a unique way to get around (https://www.denver.org/about-denver /transportation/get-around-without-a-car/) without a car.

#### Weather

Be prepared for anything in April in Colorado. The sun will most likely shine, but April brings a wide array of temperatures so pack layers.

#### Questions

Contact info@prsacolorado.org (mailto:info@prsacolorado.org) with questions.

#### BUY TICKET (/attend)





# Hotel and Travel Accommodations

# **Event Name/Date:**

| T' - 1 N   | T   | Data Data  |
|--|---|--|
| First Name   | Last Name                                     | Date   |
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| ACCOMMODATION II   | NFORMATION                                    |  |
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|  |   | l submit this form as soon as possibl  |
|  |   | ost hotel is booked, every effort will<br>ble rates to the event discounted rate |
| made to secure a room at the   | e closet notet within compara                 | ole rules to the event discounted rule   |
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| Do you require a smoking ro  |   |  |
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| ○ Yes ○ No   |   | e hotel?   |
| ○ Yes ○ No   | om?   | e hotel?   |
| O Yes O No  Do you need transportation O Yes O No                                  | om?<br>ion from the airport to the            | e hotel?   |
| <ul><li>○ Yes ○ No</li><li>Do you need transportation</li><li>○ Yes ○ No</li></ul> | om?   | e hotel?   |
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| O Yes O No  Do you need transportation O Yes O No                                  | om?<br>ion from the airport to the            | e hotel?   |
| O Yes O No  Do you need transportation O Yes O No                                  | om?  ion from the airport to the              | e hotel?  Staff Representative   |



# Water Treatment Certification Review Grades 1-2 Complete 2018 Schedule

California Rural Water Association (CRWA) is offering a series of two-day review classes designed to enhance your working knowledge of Water Treatment. Classes include a pre-test, detailed instruction on the expected range of knowledge for Water Treatment operators, and practice exams. This format helps operators brush up on the many aspects of Water Treatment systems, and assists students with test-taking skills. *Please bring a calculator with a ten-digit display*.

| ☐ May 2-3, 2018: Tulare (Tulare County) ☐ May 9-10, 2018: Yreka (Siskiyou County) ☐ May 16-17, 2018: West Covina (Los Angeles County) | -November1, 2018: Modesto (Stanislaus County<br>7-8, 2018: Sacramento (Sacramento County) |
|---|---|
|---|---|

Contact Hours: Each day of class is worth 6 SWRCB Water Contact Hours and 6 REHS/ CEUs

Class Schedule: SIGN IN · 8:00 am | CLASS - 8:30 am - 3:30 pm | LUNCH - 12:00 pm - 1:00 pm (on your own)

#### Information for the Attendee:

- A confirmation letter and map will be EMAILED to you within two weeks of the class date so please make sure your email address is valid.
- All registrants who have registered and paid for the class at least seven business days prior to the class will receive their certificate on-site.
- If any registrant requires special accommodations for disabilities, please contact our office at 800-833-0322 Cancellations must be
  received by CRWA in writing five business days prior to the event to qualify for a refund.
- Cancellations received within this time frame will be subject to a refund less a \$25 processing fee.
- All class transfer requests must be received five business days prior to the class and are subject to CRWA approval. Transfers will
  only be valid within the same calendar year.

For more in-depth training, and registration information, please visit www.calruraiwater.org or call 800.833.0322.

| Register Now!                                  | CRWA MEMB                         | ERS: \$250       | NON MEMBERS: \$350   |
|--|-----------------------------------|------------------|--|
| Attendee(s) Name(s):                           |                                   | _ Current Water  | Freatment Grade: 0 1 2 3 4 5   |
| ystem/Company Name: Taking Cert Exam? Yes / no |                                   | xam? Yes / no    |  |
| System/Company Address:                        |                                   |                  |  |
| City:  | State:                            | Zip:             |  |
| Phone:   |                                   | Email: _         | The second secon |
| Mailing Address for Certificate(s):            |                                   |                  |  |
| ☐ CRWA Member (\$250 per student) ☐            | Non-Member (\$350 per student)    | Payment Tota     | l: \$  |
| ☐ Check to follow in mail (payable to CRW)     | A) ☐ Credit Card (print info belo | w)               |  |
| Credit Card #:                                 |                                   | _ Expiration Dat | e:   |
| Authorized Signature:                          |                                   |                  |  |
|  |                                   |                  |  |

CRWA is a 501(c)(3) non-profit association proudly serving California's small water and wastewater organizations. Tap into a great resource for your system! For information on becoming a CRWA member, please call 800.833.0322 or visit www.caliniralwater.org.

TO REGISTER:

Please fax this form to 916-553-4904

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Or mail to CRWA, 1234 North Market Blvd, Sacramento, CA 95834

OPT-OUT: If you wish to be taken off our Water Treatment list, please call 800.833.0322 or email ocolson@calruralwater.org

MINUTES OF REGULAR MEETING OF THE COMMISSIONERS OF THE ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION, DECEMBER 14, 2017.

A regular meeting of the Commissioners of the Antelope Valley State Water Contractors Association was held Thursday, December 14, 2017, at the Palmdale Water District at 2029 East Avenue Q, Palmdale. Chair Parris called the meeting to order at 7:00 p.m.

## 1) Pledge of Allegiance.

At the request of Chair Parris, Commissioner Henriquez led the pledge of allegiance.

#### 2) Roll Call.

| Attendance:                   | Others Present:                            |
|-------------------------------|--|
| Robert Parris, Chair          | Matt Knudson, General Mngr.                |
| Barbara Hogan, Vice Chair     | Peter Thompson II, Assistant General Mngr. |
| Kathy Mac Laren, Secretary    | Dennis Hoffmeyer, Controller               |
| Keith Dyas, Commissioner      | Lee McElhaney, AVEK Attorney               |
| Marco Henriquez, Commissioner | Dwayne Chisam, AVEK General Mngr.          |
| Tim Clark, Alt. Commissioner  | James Chaisson, LCID General Mngr.         |
|                               | Vincent Dino, PWD Director (Alt. Cmsnr.)   |
|                               | Danielle Henry, Administrative Assistant   |

EXCUSED ABSENCE--Leo Thibault, Treasurer-Auditor

## 3) Adoption of Agenda.

It was moved by Commissioner Mac Laren, seconded by Commissioner Henriquez, and unanimously carried by all members of the Board of Commissioners present at the meeting to adopt the agenda, as written.

# 4) Public Comments for Non-Agenda Items.

There were no public comments.

# 5) Consideration and Possible Action on Minutes of Regular Meeting Held October 26, 2017.

It was moved by Commissioner Henriquez, seconded by Commissioner Dyas, and unanimously carried by all members of the Board of Commissioners present at the meeting to approve the minutes of the regular meeting held October 26, 2017, as written.

#### 6) Payment of Bills.

General Manager Knudson reviewed the bills received for payment after which it was moved by Commissioner Mac Laren, seconded by Commissioner Henriquez, and unanimously carried by all members of the Board of Commissioners present at the meeting to pay the bills received as presented from PWD in the amount of \$538.11 for staff services, from AVEK in the amount of \$1,906.03 for staff services, from AV Web Designs in the amount of \$399.90 for the recurring monthly AVSavesWater.com website charges for November and December, 2017, and from USGS in the amount of \$14,800.00 for the Joint Funding Agreement for Cooperative Water Resources Investigations for the period of August 1, 2016 through October 31, 2016 as well as ratification of the payment made for \$30,550.00 for the period of November 1, 2016 through April 30, 2017.

# 7) Discussion and Possible Action on 2018 SMART Landscaping Expo. (Chair Parris)

Chair Parris requested that AVEK'S Water Conservation Committee meet in January, 2018 with representatives from each member agency to begin the planning of the 2018 SMART Landscaping Expo.

# 8) Status Update on AVSWCA Strategic Water Plan Ad Hoc Committee Meetings. (Chair Parris/General Manager Knudson)

Chair Parris stated that the Strategic Water Plan Ad Hoc Committee met prior to this meeting and discussed State Water Project Table A exchanges, future joint recharge projects, and potential solutions for various issues related to the Watermaster, the Antelope Valley Country Club, and the nitrate plumes from the Sanitation Districts.

# 9) Discussion and Possible Action on the Feasibility of Developing a Joint Groundwater Recharge Project with the AVSWCA Member Agencies. (General Manager Knudson)

General Manager Knudson stated that there is an interest in the development of a joint recharge project within Big Rock Creek due to the challenges associated with recharge in Littlerock Creek, and after a brief discussion of shared project costs and recharge capacities, it was determined that staff will provide a presentation to each member agency's Board in January, 2018 to seek support and approval to move forward with a Request for Proposals.

The Upper Amargosa Creek Recharge, Habitat Restoration, and Nature Park Project was then briefly discussed and staff was directed to extend an invitation to the City of Palmdale to attend the next Association meeting to discuss options to move the Project towards completion.

### 10) Report of General Manager.

# a) Update on Antelope Valley Watermaster Meetings.

General Manager Knudson stated that discussion topics at the previous Antelope Valley Watermaster Advisory Committee meeting included carry-over water and ramp down; that the next meeting is scheduled for January 24, 2018 at 10 a.m. at AVEK and discussion topics will include well applications, long term administration, and the 2018 Assessments and Budget; and that the development of Rules and Regulations for the Watermaster will be a big task for 2018.

# b) Update on AV-IRWMP Stakeholder Meeting.

# c) Update on Continuation of Joint Funding Agreement with USGS.

General Manager Knudson stated that the Stakeholders for the Antelope Valley Integrated Regional Water Management Plan have not met since the last Association meeting and that the next meeting will include further discussion regarding the proposed 25% cost sharing of future USGS Joint Funding Agreements for cooperative water resources investigations.

#### 11) Report of Controller.

### a) Update on Revenue, Expenses and Change in Net Position.

Controller Hoffmeyer provided a brief update on the Association's revenue, expenses and change in net position, including the recent USGS payments and upcoming invoice, and stated that he will be working on collection of the remaining Prop. 1A grant funding for the Integrated Regional Water Management Plan.

General Manager Knudson then informed the Commissioners that the Association received a certificate from ACWA/JPIA for zero claims and case reserves.

#### 12) Reports of Commissioners.

Commissioner Dyas requested that an update on the Fremont Valley Integrated Water Management Plan be provided at a future meeting.

There were no further reports.

### 13) Report of Attorney.

There was no report.

# 14) Commission Members' Requests for Future Agenda Items.

It was determined that "Discussion and Possible Action on 2018 SMART Landscaping Expo," "Discussion and Possible Action on the Feasibility of Developing a Joint Groundwater Recharge Project with the AVSWCA Member Agencies," and "Status Update on AVSWCA Strategic Water Plan Ad Hoc Committee Meetings" will remain on the next meeting agenda and that "Discussion and Possible Action on the Progress of the Upper Amargosa Creek Recharge, Habitat Restoration, and Nature Park Project" and "Status Update of the Fremont Valley Integrated Water Management Plan" will be added to the next meeting agenda.

There were no further requests for future agenda items.

# 15) Consideration and Possible Action on Scheduling the Next Association Meeting.

It was determined that the next regular meeting of the Association will be held on January 11, 2018 at 7:00 p.m. at Palmdale Water District.

# 16) Adjournment.

There being no further business to come before the Commissioners, the regular meeting of the Commissioners of the Antelope Valley State Water Contractors Association was adjourned at 7:39 p.m.

Secretary

Chair

# PALMDALE WATER DISTRICT BOARD MEMORANDUM

**DATE:** January 17, 2018 **January 24, 2018** 

TO: BOARD OF DIRECTORS Board Meeting

**FROM:** Mr. Dennis D. LaMoreaux, General Manager

RE: AGENDA ITEM NO. 8.2.a – January 2018 General Manager Report

The following is the January report to the Board of activities through December 2017. It is organized to follow the District's six strategic initiatives adopted in 2016 & 2017 and is intended to provide a general update on the month's activities. A summary of the initiatives is as follows:



### Water Resource Reliability

2015 Urban Water Management Plan, drought response Palmdale Regional Groundwater Recharge & Recovery Project Littlerock Reservoir Sediment Removal Project Recycled water allocation and use



### Organizational Excellence

Maintain formal management/supervisor training and development program Maintain competitive compensation and benefits package Employee wellness program; Succession planning Board/staff events to develop innovative ideas and awards



# Systems Efficiency

Water system Master Plan update and related EIR Reinvestment in aging infrastructure Investment, implementation, and training plan for new technology Computerized maintenance management software (CMMS)



# Financial Health and Stability

Pursue Federal and State funding opportunities Sustainable and balanced rate structure Maintain adequate reserve levels Maintain high level bond rating



# **Regional Leadership**

Create a regional best practices Antelope Valley partnership Enhance community partnerships and expand school programs in water education Emphasize the importance and long history of the District as a community asset Continue to evaluate District internship needs



### **Customer Care and Advocacy**

Customer Care accessibility through automation
Evaluate, develop, and market additional payment options
Improve customer account management tools
Enhance customer experience through assessment of infrastructure, processes, and policies to maximize the customer care experience

This report also includes charts that show the effects of the District's efforts in several areas. They are organized within each strategic initiative and include status of upcoming State Water Resources Control Board's (SWRCB) long-term conservation orders, 20 x 2020 status, the District's total per capita water use trends, 2017 water production and customer use graph, mainline leaks, and the water loss trends for both 12 and 24 month running averages.



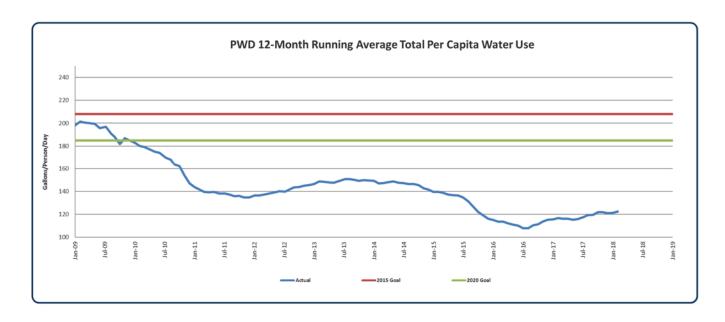
#### Water Resource Reliability

This initiative includes conservation efforts, water supply projects, and water planning. Recent highlights are as follows:

#### State Water Resources Control Board (SWRCB) Activities

The SWRCB is anticipated to replace the 20 x 2020 per capita reduction goals passed by the legislature in 2009 with new long-term water budgeting requirements. These are explained in the "Making Water Conservation a California Way of Life" plan. The bills that would establish this are two-year bills. ACWA's position remains opposed unless amended. More discussion is expected on these early this year.

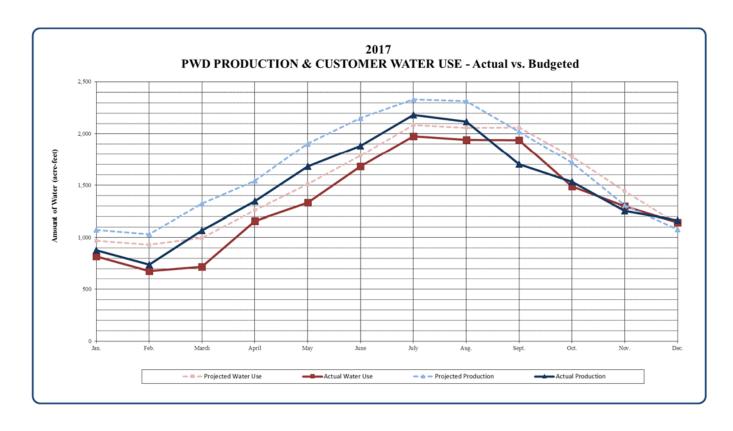
The District's compliance with the 20 x 2020 law is evident from the chart titled "PWD 12-Month Running Average Total Per Capita Water Use.":

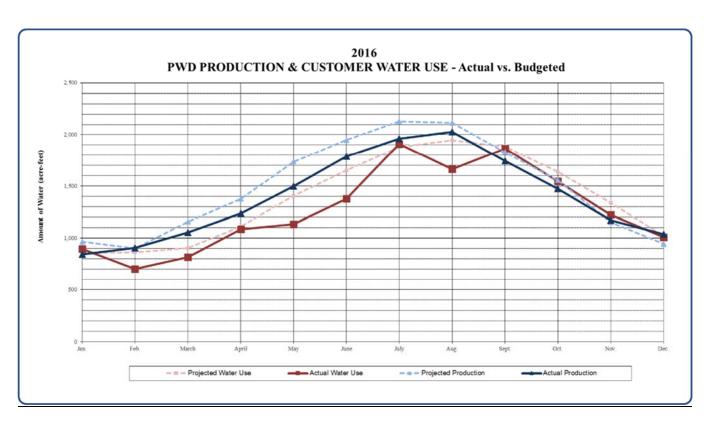


The District's customers have cut their water use by **47.6%** from the baseline number of 231 and met the 2020 Goal in early 2010. The current Total-GPCD is 121.

### **Water Supply Information**

- The staff plan for water resources in 2017 was based on the State Water Project allocation of 85%. It relied heavily on the SWP and substantially reduced groundwater pumping. This strategy has resulted in increased groundwater levels at District well sites and generated future return flow groundwater production rights. The District's request for 2018 SWP water has been submitted. The initial 2018 allocation of 15% was issued in December.
- Water and Energy Resources staff followed a plan for 2017 that incorporated available water with the anticipated water usage. The following graph shows actual amounts through December and monthly projections for both production and consumption, based on the prior five years of actual monthly information, for the entire year. It is anticipated that this year's consumption and production pattern will continue to move back into a more-normal pattern. The December production and consumption numbers were higher than they have been for several years. The 2016 chart is added in this report for comparison.





#### Other Items

• The Littlerock Reservoir Sediment Removal Project Environmental Impact Report/Environmental Impact Statement (EIR/EIS) was fully approved in 2017. Work is now underway with the various regulatory agencies to obtain the required permits.

The future steps for implementing this Project start with finalizing the grade control structure design. A contract amendment for Aspen to design the grade control structure was approved by the Board in May. A 30% design was reviewed by PWD staff in December, and a 90% design is expected in late January. Once the design is complete and permits are obtained, construction estimates will be made, financing options evaluated and implemented, the grade control structure contract can be bid, and construction tentatively scheduled to begin this summer.

The public review of the Draft California Environmental Quality Act (CEQA) EIR for the Palmdale Regional Groundwater Recharge and Recovery Project is complete. The Final EIR was certified by the Board on July 13, 2016, and the Notice of Determination was filed on July 14, 2016. The comments from the SWRCB Recycled Water Division on the Title 22 Engineering Report were addressed and returned for further review. Another set of comments was expected in December. However, the State did not return them by December 31, 2017.

Construction of monitoring wells and a pilot recharge basin was awarded, and the contractor started the work last fall. The first monitoring well drilling was completed. The initial 28-day recharge test was also completed.

California Water Fix: There have been recent regulatory approvals moving this project forward. The State Water Contractors and the Department of Water Resources are continuing discussions about the Project's financing and operations. These discussions will result in a clearer picture of the effect on individual contractors. Staff is directly involved in these discussions and will be able to update the Board in the future.



## Organizational Excellence

This initiative includes efforts to restructure staff duties and activities to more efficiently provide service to our customers. Recent highlights are as follows:

• The electronic time keeping software was used by staff during most of 2017.

- The 2016/2017 Strategic Plan Update is posted in the board room, and the posters and brochure are now complete. A Spanish translation has been printed and is also posted in the Board room.
- An interpreter is provided upon request for public comments at regular Board meetings as an interim policy beginning in May 2016. The Board adopted this policy at the March 8, 2017 meeting.
- The District is working with other members of the Public Water Agencies Group to hire and share the services of an Emergency Preparedness Coordinator. The MOU was approved by the Board, and the action of other agencies is complete. An initial meeting is scheduled in early October to discuss the recruitment process. The process is expected to be completed early in 2018.
- 2018 Strategic Plan Update: Staff and directors have met to discuss updates to the current Plan. A comprehensive list of the ideas is being compiled and will be sent to the Mathis Group. A Mathis Group - facilitated workshop was held in November for the Board to discuss the ideas and formulate the 2018 Strategic Plan Update. A draft Update will be presented to the Board in January for final approval.
- A new logo for the District, as part of the 100-year anniversary, was approved by the Board at the October 11, 2017 Board meeting. The new logo was used for all business materials beginning in December 2017.



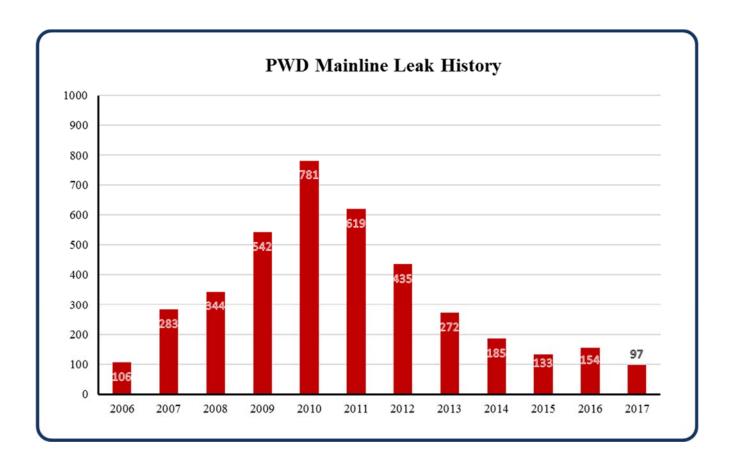


# Systems Efficiency

This initiative largely focuses on the state of the District's infrastructure. Recent highlights are as follows:

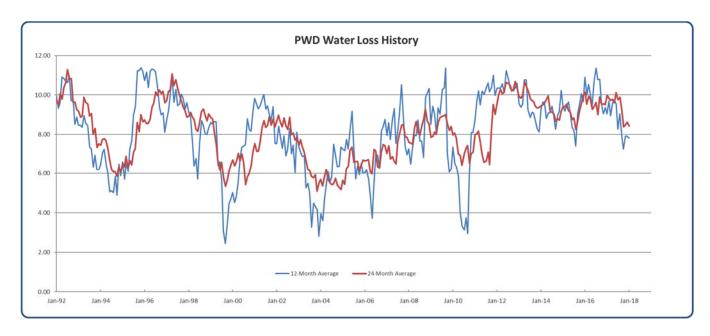
• Installation of security upgrades for the Leslie O. Carter Water Treatment Plant is operational and complete.

■ Water main and water meter replacement projects completed within the funds available in the 2017 Budget and recent years continued the District's efforts to maintain the water system. The effects of the District's past efforts in replacing failing water mains and meters can be seen in the reduced number of mainline leaks. This is illustrated in the chart titled "Mainline Leak History." The mainline leaks through December 2017 are 97. This is the first time they were under 100 in over ten years. The 2017 service line leaks remained fairly constant but were also lower than 2016 at 79. While this is a vast improvement from 2010's number of 781 mainline leaks, replacement work must continue.



- The budgeted meter replacement project of approximately 3,300 meters is complete.
- Facilities staff is adding to its maintenance activities to incorporate pressure reducing valves and other facilities as their efforts can continue to be more preventative due to a lower number of emergency repairs. A detailed presentation was given to the Board on September 13, 2017 explaining the importance of these activities.

- District staff is preparing for the next water main replacement on Camares Drive south of Barrel Springs Road.
- The positive effect of both water main and water meter replacement programs is shown on the chart titled "PWD Water Loss History." Water losses are now just above 8%.





# Financial Health and Stability

• Engineering staff has successfully applied for planning grant funding for the Palmdale Regional Groundwater Recharge and Recovery Project and for the Phase II pipeline for the Palmdale Recycled Water Authority. Application packages for further funding have been determined to be complete by the State. A comment letter was also submitted to raise the priority of both projects in the State's funding plan for 2017/2018.

The State is satisfied with resolutions from the City and the District related to the PRWA Phase II funding application for compliance with their repayment requirements. An amendment to the JPA will also be completed to tie these into PRWA. The only outstanding issue is the State's approach to determining the District's Debt Coverage Ratio. They continue to include non-operating expenses into the calculation. Staff and our financial advisor are still working on this issue.

• Water rate changes of 4.25% for 2017, 2018, and 2019 were approved at a Board meeting held November 9, 2016. The resolution is also unique in that it included criteria that, if met, would allow for lesser changes.

- Staff successfully implemented all the projects financed with the Holman Capital technology lease agreement.
- Engineering/Grant Manager Riley has worked with the Bureau of Reclamation for the acceptance of a Feasibility Report for the Palmdale Regional Groundwater Recharge and Recovery Project and having it eligible for funding. Mr. Riley and I visited the Bureau in Denver to discuss future funding opportunities. The Bureau staff was very receptive to the project. Our project is one of 30 from across the country that is eligible to compete for a portion of \$10M in this year's Federal budget due to the approved Feasibility Report. This competition was recently announced with an application deadline of August 17, 2017. The Board approved a contract with Kennedy/Jenks to help prepare the application, and it was submitted on time. This effort did not result in an award of funds from the Bureau. However, lessons from this submittal will be used in future funding competitions.
- The 2018 Budget was approved by the Board in November 2017. The complete 2018 Budget will be completed and published in January 2018.
- Cash-for-Grass Program: The District received a \$75,000 Grant from the Bureau of Reclamation to assist in funding the Cash for Grass Program. A status report on this year's program will be given in October. The Board approved changes to the program at the October 25, 2017 meeting that will be effective on January 1, 2018 along with the 2018 Budget.



## **Regional Leadership**

This initiative includes efforts to involve the community, be involved in regional activities, and be a resource for other agencies in the area. Recent highlights are as follows:

- Activities of the Palmdale Recycled Water Authority (PRWA) and Antelope Valley State Water Contractors Association have continued.
- The District staff continues to be active in the Antelope Valley Watermaster Board (AVWB) and related meetings.
- District staff is active in the local chambers and is on the board of the Palmdale Chamber and GAVEA.

Staff developed a plan and budget for a year-long celebration of the District's 100<sup>th</sup> Anniversary in July 2018 that was approved by the Board on July 12, 2017. The activities will be announced at this meeting. The first events of an Open House on August 5<sup>th</sup> and the AV Fair parade and office decorating contest were successful. The first public tour of Littlerock Dam and the Leslie O. Carter Water Treatment Plant was successfully conducted on Thursday, September 21, 2017.

Historic displays are in the District lobby and at the Palmdale City Library. These are changed monthly to reflect a new decade as we move closer to the 100<sup>th</sup> Anniversary Celebration on July 22, 2018.

 Staff will work with the Ad-Hoc Committee on a method to better communicate with and involve our customers in the District's activities.



## **Customer Care and Advocacy**

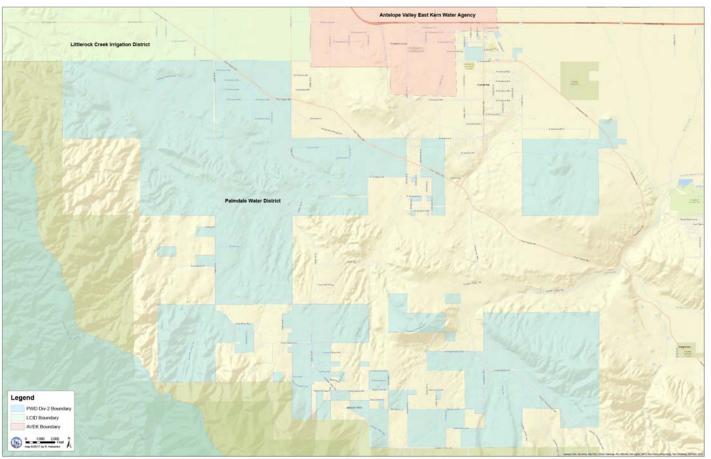
This initiative includes efforts to better serve our customers. Recent highlights are as follows:

- The new lobby kiosk is continuing to give customers another choice for making a payment at the District office at a reduced cost from the initial kiosk.
- The ability to make payments at 7-Eleven and Family Dollar Store is also continuing to grow.
- A plan to update and improve the front entrance and lobby was approved by the Facilities Committee in March, and work is complete. The kiosk is now installed and functioning in the lobby. It hosts service ticketing for customers, a directory of the office, and displays associated with the 100<sup>th</sup> Year celebration.
- Customer Care and Finance staff are now exclusively using TruePoint software. TruePoint has continued to provide solid support and programming changes for any needed adjustments. Staff is continuing to recognize and correct transition issues that arise to minimize any effect on customers.
- Many residents in the Juniper Hills area rely on water hauling companies for their water. A major local source for these companies is no longer available, and more distant water sources increase water costs for the residents.

Numerous properties in the Juniper Hills area annexed to PWD in the early 1960's for access to the State Water Project (SWP) and pay the annual assessment for SWP fixed

costs. To date, there has not been a way to use the SWP water due to the lack of a water system. However, this allows PWD to act as a water source for water hauling companies for properties within PWD's boundaries in the Juniper Hills area.

The following map was provided for water hauling companies and residents to help them understand who PWD can help serve.



**PWD Division 2 Boundaries Near Juniper Hills** 

The District is requiring submitals documenting a water hauling company's status as part of setting a water meter for their use. We are also using copies of property tax bills to verify the water hauling customers are within PWD's boundaries. Staff reviews the tax bill copies for that verification. Aleshire & Wynder also drafted an agreement for water hauling companies that is intended to protect the District and the water hauling customers. There are currently five (5) residents verified for water deliveries.

Staff attended the Juniper Hills Town Council meeting on November 1, 2017 to explain this approach and answer other questions from the residents. This is an unusual situation and shows the District's commitment to serve all customers within its boundaries, even in the absence of a water distribution system.