PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

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

April 4, 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

MONDAY, APRIL 9, 2018

6:00 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 three-minutes. 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) None at this time.

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 March 28, 2018.

6.2) Payment of bills for April 9, 2018.

6.3) Ratification of participation in 2018 Dry Year Water Transfer Program. ($25,000.00 – Budgeted – Water and Energy Resources Director Pernula)

6.4) Approve absence of Director Mac Laren from March 28, 2018 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 approval of Memorandum of Understanding by and between Littlerock Creek Irrigation District, Antelope Valley-East Kern Water Agency, Palmdale Water District, and Antelope Valley State Water Contractors Association for the Big Rock Creek – Groundwater Recharge Project. (Cost to be determined – Budgeted – Deputy Water and Energy Resources Director Thompson II)

7.2) Consideration and possible action on approval of contract amendment with Aspen Environmental to complete preconstruction biological surveys for Littlerock Sediment Removal Project ($78,590.00 – Non-Budgeted – Engineering/Grant Manager Riley)

7.3) Consideration and possible action on outreach activities for 2018. (Public Affairs Director Shay)

a) Update on 100th year anniversary events.

b) Outreach plans for 2018.

c) Upcoming events.

d) Outreach recommendations from Directors.

7.4) 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) American Water Works Association Annual Conference and Exposition “Innovating the Future of Water” to be held June 11 – 14, 2018 in Las Vegas, Nevada.

8) Information Items:

8.1) Reports of Directors:

a) Meetings/General Report.

b) Standing Committee/Assignment Reports (Chair):

1) None.

8.2) Report of General Manager.

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.*

11.2) Conference with Legal Counsel – Existing Litigation: A closed session will be held, pursuant to Government Code §54956.9 (d)(1), to confer with legal counsel regarding pending litigation to which the District is a party. The title of such litigation is as follows: *United States, et al. v. J-M Manufacturing Company, Inc., et al., United States District Court for the Central District of California; Case No. ED CV06-0055-GW.*

12) Public report of any action taken in closed session.

13) Board members' requests for future agenda items.

14) Adjournment.

Dennis D. LaMoreaux

DENNIS D. LaMOREAUX,
General Manager

DDL/dd

P A L M D A L E W A T E R D I S T R I C T

B O A R D M E M O R A N D U M

DATE: April 3, 2018 **April 9, 2018**

TO: BOARD OF DIRECTORS **Board Meeting**

FROM: Mr. Jon M Pernula, Water and Energy Resources Dir.

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***AGENDA ITEM NO. 6.3 – RATIFICATION OF PARTICIPATION IN 2018 DRY YEAR WATER TRANSFER PROGRAM. ($25,000.00 – BUDGETED – WATER AND ENERGY RESOURCES DIRECTOR PERNULA)***

Recommendation:
Staff recommends the Board ratify the 2018 Dry Year Water Transfer Program and further authorize funding for dry year supplemental water purchases as needed to meet 2018 customer demands.

Impact of Taking No Action:
No action could jeopardize assurance to satisfy customer supplies and further limit the options available to meet 2018 demands.

Background:
The recent damage to Lake Oroville's spillway and subsequent necessary repair efforts have limited the amount of storage capacity allowed for State Water Contractor supplies in 2018. This, in turn, has had a compound negative effect on 2018 allocations and surface water resources through the State Water Project (SWP). Through the years, as the necessity arises, the District has commonly participated in SWP Dry Year Transfer Programs (DYTP). Our participation is executed as insurance to effectively mitigate potential resource shortages in our supply/demand ratio. Due to the subnormal 2018 snowpack and 20% allocation this year, staff has elected to participate in this year's DYTP. A deposit of $25,000.00 for estimated administration costs was forwarded to the State Water Contractors to cover our share of the administration of this program. The water is purchased from various agricultural districts and interests located in the north Sacramento Valley. Over the years, we have enjoyed a historical, ongoing, and mutually beneficial relationship with many of these entities. Our participation in the DYTP gives us the assurance of fully adequate and accessible supplies along with the continuation of the valued relationships we have built over time.

Strategic Plan Initiative/Mission Statement:
This item is under Strategic Initiative No. 1 - Water Resource Reliability.
This item directly relates to the District's Mission Statement.

Budget:
This project is under Budget Item "Water Purchases".

Supporting Documents:
- State Water Contractors 2018 Dry Year Water Transfer Agreement
- List of participating sellers for 2018

VERSION 2-16-18

STATE WATER CONTRACTORS
2018 DRY YEAR WATER TRANSFER AGREEMENT

This State Water Contractors ("SWC") 2018 Dry Year Water Transfer Agreement ("Agreement") is between and among the SWC and certain SWC member agencies who execute this Agreement with the intent to purchase water ("Buyers") through the 2018 Dry Year Transfer Program ("DYTP"). SWC and Buyers may be referred to collectively as "Parties" and the actions being carried out under this Agreement may be referred to as the "Program". This Agreement is effective when executed by SWC, and as to each Buyer when executed by such Buyer.

RECITALS

A. The SWC is a non-profit mutual benefit corporation created under California law in 1982.

B. The Buyers who have executed this Agreement are SWC member agencies.

C. The Buyers desire to purchase water to help meet their service areas' needs in 2018, and desire the SWC to act as a negotiating and fiscal agent to collect, hold, disburse and account for funds deposited by the Buyers pursuant to this Agreement. The SWC is empowered to and is willing to do so.

NOW, THEREFORE, the Parties to this Agreement agree as follows:

AGREEMENT

1. BUYER-SELLER AGREEMENTS

(A) The SWC, along with a subset of the Buyer(s), shall jointly negotiate agreements to purchase water from to-be-determined water districts/water agencies/water companies in the Sacramento Valley ("Sellers") through a contract ("Buyer-Seller

Agreements") for use by Buyers in 2018. The Buyers shall make their best efforts to negotiate and execute Buyer-Seller Agreements by April 18, 2018.

(B) Each Buyer will execute a Buyer-Seller Agreement with each Seller. The SWC shall not be a party to the Buyer-Seller Agreements.

(C) Each Buyer will execute Storage and Conveyance Agreements with the California Department of Water Resources ("DWR") and the Seller and/or Sellers. There will be additional conditions, risks, and possibly DWR administrative charges associated with the Storage and Conveyance Agreements. The SWC shall not be a party to the Storage and Conveyance Agreements.

(D) The Buyers understand that (i) water purchased through the Buyer-Seller Agreements will be subject to losses and (ii) the water actually delivered by DWR could be reduced or delayed based on regulatory- or judicially-imposed restrictions on DWR's ability to operate the export pumps and State Water Project infrastructure outages. The Buyers further understand that payments required by the Buyer-Seller Agreements and this Agreement are based on the water amount purchased and not the water amount actually delivered.

2. INITIAL WATER REQUEST AND ALLOCATION PROPORTION

(A) Provided Buyer has executed this Agreement on or before March 15, 2018, each Buyer shall: (i) provide written notification to the SWC of its initial water request ("Initial Request") and (ii) remit to the SWC $5 for each acre-foot included in its Initial Request as an initial administrative deposit ("Administrative Deposit"), to be held in trust by the SWC under Section 7. The Administrative Deposit shall be used to pay the SWC's staff and administrative costs described in Section 6 and Sellers' staff, environmental, legal, technical/engineering, and regulatory costs described in Section 5.

(B) Upon executing this Agreement, submitting an Initial Request and remitting an Administrative Deposit, the Buyer shall be entitled to make a final water request ("Final Request") pursuant to Section 3(B).

(C) The initial allocation of the water to be purchased through the Buyer-Seller Agreements will be based on the lesser of Buyer's Initial Request or Buyer's proportionate share to the total DYTP supply, determined by the ratio of participating Buyer's maximum

SWP Table A amount to the total maximum SWP Table A amounts of all Buyers ("Initial Allocated Proportion").

(D) Should a Party(ies) desire to adjust the allocation methodology specified in Section 2(C), the Parties who have made an Initial Request must agree unanimously in writing.

3. FINAL WATER REQUEST AND PURCHASE WATER DEPOSITS

(A) On or before March 22, 2018, the SWC will provide Buyers written notice of: (i) the current Sellers' anticipated total water amount available by water supply type (e.g. crop idling, crop shifting, groundwater substitution, reservoir reoperation) for purchase through the Buyer-Seller Agreements; (ii) the Buyer-Seller Agreements final terms; and (iii) each Buyer's Initial Allocated Proportion of water available per Section 2(C).

(B) On or before March 28, 2018, each Buyer will provide the SWC and other Buyers written notice of its Final Request. The Final Request cannot be greater than the Buyer's Initial Request or the Initial Allocated Proportion identified in the SWC's March 22, 2018 notice unless agreed to in writing by all Buyers.

(C) On or before April 23, 2018, the SWC will provide Buyers written notice of any adjustments, in accordance with Section 4, to each Buyer's Initial Allocated Proportion of water available for purchase based on the Final Request ("Final Allocated Proportion").

(D) On or before April 27, 2018, each Buyer shall remit to the SWC an initial purchase deposit ("Initial Purchase Deposit") equal to 50% of its Initial Allocated Proportion multiplied by the price per acre-foot established in the Buyer-Seller Agreements or any Letter of Commitment. Based on the Final Allocated Proportion, determined in Section 4, the Buyer shall remit to the SWC the remaining balance of the cost of Buyer's Final Allocated Proportion ("Final Purchase Deposit") by June 1, 2018. The SWC shall hold the all purchase deposits in trust under Section 7.

(E) If the purchased water amount allocated to a Buyer is not made available to a Buyer based on Seller's failure to perform, causing there to be excess purchase deposits,

the SWC shall refund any excess purchase deposits not needed for Buyer's share of purchase costs.

(F) The Parties may mutually agree to adjust the dates specified in Section 3 in writing, without amending this Agreement.

4. FINAL ALLOCATION PROPORTION

(A) If a Buyer's Final Request is less than its Initial Allocated Proportion as provided in the SWC's notice in Section 3(A), the forfeited potential water transfer quantity will be offered to other Buyers pursuant to Section 4(B). If a Buyer does not execute the Buyer-Seller Agreements or submit Purchase Deposits to the SWC pursuant to Section 3(D), it will be considered a withdrawn buyer ("Withdrawn Buyer") and will have no rights or obligations to purchase water pursuant to this Agreement and cannot rejoin the 2018 DYTP.

(B) Each Buyer remaining in the program may request a share of water made available by Withdrawn Buyers or by reduced requests of remaining Buyers equal to its proportionate share of the total amount of Final Requests made under Section 3. If a remaining Buyer does not want additional supply, this reallocation process will be repeated as necessary to distribute the additional water to willing Buyers.

(C) SWC will determine each Buyer's Final Allocated Proportion, in accordance with Sections 4(A) and (B), and will notify each Buyer in the April 23, 2018 notice required by Section 3(C).

(D) After the Buyer-Seller Agreements have been executed and the Sellers have been notified of the intent to purchase the water, remaining Buyers will be responsible for full payment of allocated purchased supplies and potential Seller legal/administrative costs/liabilities, if any, as set forth in the Buyer-Seller Agreement and/or referenced in Section 5.

5. PAYMENTS TO SELLERS

(A) Letter(s) of Commitment: If it is deemed necessary, this Agreement authorizes the SWC to execute a Letter of Commitment with the Sellers on behalf of the Buyers prior to the actual execution of a Buyer-Seller Agreement. Buyers shall have the

right to review any Letter of Commitment before it is executed. Upon the execution of this Agreement and any Letter of Commitment, the SWC may commit the Buyers to pay some of Seller's future Regulatory and Administration costs. In addition, the Letter of Commitment may commit Buyers to cover Sellers' costs in the event of an administrative challenge and/or litigation. Such payments may be required regardless if water is ultimately purchased or moved. Funding for these payments will come from the Buyers' $5/acre-foot Administrative Deposit or subsequent payments provided such subsequent payment is consistent with the Buyer-Seller Agreement, as described in Section 2(A), in proportion to their participation share of the DYTP at the time of the execution of any Letter of Commitment.

(B) Buyer-Seller Agreement(s):

(i) Water Purchase: Upon Buyers submitting a Final Request, Buyer must remit an Initial Purchase Deposit to the SWC pursuant to Section 3(D), the SWC will promptly, but no later than any notification deadline in the Buyer-Seller Agreements, notify the Sellers that the Buyers have submitted a Final Request and will make payments to the Sellers in accordance with the payment provisions of the Buyer-Seller Agreements. In addition, the Buyers must remit a Final Purchase Deposit to the SWC pursuant to Section 3(D). The payments made by the SWC to the Sellers based on a Buyer's Final Allocated Proportion will not be refundable to the Buyer unless Sellers fail to perform and are required to return the payments based on their failure to perform as specified in the Buyer-Seller Agreements and any Letter of Commitment.

(ii) Seller Administrative, Regulatory, and Litigation Costs:

(a) If not obliged by an execution of a Letter of Commitment in Section 5(A), the Buyer-Seller Agreement will commit the Buyers to incur some of the Sellers' administrative and regulatory costs in addition to possible litigation and administrative costs associated with an unforeseen administrative challenge and/or litigation against a 2018 DYTP water transfers. Such expenses would be funded using the Buyers' Administrative Deposit described in Section 2(A). If the initial $5/af Administrative Deposit is insufficient and additional funds are required, a

sufficient subsequent Administrative Deposit will be paid by Buyers to the SWC, provided such subsequent payment is consistent with the Buyer-Seller Agreement.

(b) The SWC are authorized to, and shall, disburse from the Administrative Deposit funds necessary to pay the Buyers' share of Sellers' administrative, regulatory and litigation (if any) costs, including any such costs required by the relevant Buyer-Seller Agreement. Subject to Section 5(B)(ii)(c) and (d), each Buyer's Administrative Deposit will be debited with a proportionate share of these costs equal to the Final Allocated Proportion of water.

(c) Because the Sellers' administrative, regulatory and possibly litigation costs will be incurred irrespective of whether any of the Buyers ultimately purchase water or whether there is capacity to deliver purchased water, Withdrawn Buyers will be responsible for the payment of the cost specified in 5(B)(ii) proportionate to the Initial Allocated Proportion for environmental and legal costs associated with the defense of the Program that were initiated prior to the Buyer becoming a Withdrawn Buyer. However, a Withdrawn Buyer's maximum liability for administrative costs shall be limited by it's the initial Administrative Deposit.

(d) In the event that all Buyers withdraw from the Program or no water can ultimately be delivered, the administrative, regulatory, and litigation (if any) cost responsibilities, as required in the Buyer-Seller Agreements and/or the Letter of Commitment, will be apportioned to all Buyers who executed this Agreement according to the Initial Allocated Proportion.

6. SWC'S ADMINISTRATIVE COSTS

The SWC will be responsible for taking the following actions to facilitate the transfers:

(A) Hold/manage the deposits in a separate interest bearing account for the Buyers' benefit and return to the Buyers their proportionate share of any interest remaining in the account when its duties have ended under this Agreement;

(B) Collect money from Buyers and disburse to Sellers;

(C) Account for money/water and refund any excess deposits made by Buyers;

(D) Administer contract changes, transfer adjustments and any repayment required due to failure/inability to deliver water; and

(E) Coordinate with DWR on behalf of the Buyers regarding the Storage and Conveyance Agreements, carriage loss calculation, and any DWR administrative fees.

(F) Subject to Section 6(G), each Buyer that receives water from this Program shall pay the SWC a proportionate share of the SWC' actual costs to administer this Agreement equal to its Final Allocated Proportion. When the SWC administrative duties have ended, it will provide the Buyers an accounting for its actual costs. If the SWC actual administration and administrative costs identified in Section 6 and the Sellers' costs identified in Section 5(B)(ii) exceed the Administrative Deposits, each Buyer shall pay to the SWC an amount equal to its proportionate share of its Final Allocated Proportion within 30 days of receiving an invoice from the SWC, provided such subsequent payment is consistent with the Buyer-Seller Agreement. If the costs are less than the Administrative Deposits, the SWC shall refund to each Buyer its proportionate share of the remaining Administrative Deposits based on its Final Allocated Proportion. In either case, at the conclusion of the program the SWC will retain a sum of $2,000 from the combined Administrative Deposits to cover costs associated with typical post-program activities such as answering questions regarding water and cost accounting, preparation for program audits, and documenting the program, including "lessons learned", which will aid future programs.

(G) Withdrawn Buyers will pay the SWC a proportionate share of the SWC actual costs to administer this Agreement and the DYTP incurred prior to becoming a Withdrawn Buyer, designated as the date of written notification to SWC of withdrawal or failure to execute a Buyer-Seller Agreement by the required date (whichever is earliest) based on its Initial Allocated Proportion, or failure to make the required deposit by the due date.

7. SWC' DUTIES AS FISCAL AGENT

The SWC shall hold and manage the funds deposited by Buyers in a separate interest bearing account in trust for the benefit of the Buyers and shall exercise the same duty of care in managing the Buyers account as it exercises in maintaining its own accounts.

8. INDEMNITY AND LIABILITY

(A) As between themselves, the Buyers agree to jointly and severally assume any liability of the SWC resulting from this Agreement in proportion to their respective share of the total amount of Initial Requests. The Buyers agree that the SWC shall incur no liability as a result of the SWC undertaking the work provided for by this Agreement.

(B) The Buyers agree to jointly and severally protect, defend, indemnify and hold harmless the SWC, including its directors and staff, and any members of the SWC who are not parties to this Agreement and their respective directors, officers, agents, servants, employees and consultants from and against any and all losses, claims, liens, demands, and causes of action of every kind and character, occurring or in any way incident to, connected with, or arising directly or indirectly out of the Buyers' performance or non-performance under this Agreement.

9. AUDIT

(A) SWC shall be responsible for ensuring the accuracy and propriety of all billings and shall maintain all supporting documentation for the period specified below.

(B) Buyer will have the right to audit SWC's invoices and all supporting documentation for purposes of compliance with this Agreement during the term of this Agreement and for a period of three years following completion of services under this Agreement.

(C) Upon reasonable notice from Buyer, SWC shall cooperate fully with any audit of its billings conducted by Buyer and shall permit access to its books, records and accounts as may be necessary to conduct such audits.

10. TERM OF AGREEMENT

This Agreement shall be effective until December 31, 2018 or upon the completion of all duties and obligations of the Parties have been performed.

11. NOTICES

All notices required by this Agreement to be made in writing can be made by facsimile, e-mail or signed document via e-mail.

12. SIGNATURE BY COUNTERPART

This Agreement may be signed in counterparts by the Parties and, if executed in counterparts, will be deemed to be the same instrument and valid and binding on a party as if fully executed all in one copy.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement by authorized officials thereof on the dates indicated below.

//

State Water Contractors

By: _____ Date: _____

BUYER _____

By: _____ Date: _____

Approved as to legal form: _____ Date: _____

10. TERM OF AGREEMENT

This Agreement shall be effective until December 31, 2018 or upon the completion of all duties and obligations of the Parties have been performed.

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All notices required by this Agreement to be made in writing can be made by facsimile, e-mail or signed document via e-mail.

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IN WITNESS WHEREOF, the Parties hereto have executed this Agreement by authorized officials thereof on the dates indicated below.

//

State Water Contractors

By: _____ Date: _____

BUYER PALMDALE WATER DIST

By: _____ Date: 3/28/18

Approved as to legal form: _____ Date: _____

Participating Sellers in the 2018 DYTP

1. Butte Water District (not to be confused with Butte County)
2. Sutter Extension
3. South Feather Water and Power
4. South Sutter ID
5. Richvale ID
6. Plumas Mutual Water District
7. Cordura ID and
8. Tule Basin

P A L M D A L E W A T E R D I S T R I C T

B O A R D M E M O R A N D U M

DATE: April 2, 2018 **April 9, 2018**

TO: BOARD OF DIRECTORS **Board Meeting**

FROM: Mr. Dennis D. LaMoreaux, General Manager

RE: ***AGENDA ITEM NO. 6.4 – APPROVE ABSENCE OF DIRECTOR MAC LAREN FROM MARCH 28, 2018 BOARD MEETING DUE TO A WORK COMMITMENT. (GENERAL MANAGER LaMOREAUX)***

Director Mac Laren was absent from the March 28, 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."

P A L M D A L E W A T E R D I S T R I C T

B O A R D M E M O R A N D U M

DATE: April 2, 2018 **April 9, 2018**

TO: BOARD OF DIRECTORS **Board Meeting**

FROM: Mr. Peter Thompson II, Deputy Water and Energy Res. Dir.

VIA: Mr. Dennis D. LaMoreaux, General Manager
Mr. Jon Pernula, Water and Energy Res. Dir.

RE: ***AGENDA ITEM NO. 7.1 – CONSIDERATION AND POSSIBLE ACTION ON APPROVAL OF THE MEMORANDUM OF UNDERSTANDING BY AND BETWEEN LITTLEROCK CREEK IRRIGATION DISTRICT, ANTELOPE VALLEY-EAST KERN WATER AGENCY, PALMDALE WATER DISTRICT, AND ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION FOR THE BIG ROCK CREEK – GROUNDWATER RECHARGE PROJECT***

Recommendation:
Staff recommends the approval of the Memorandum of Understanding (MOU) by and between Littlerock Creek Irrigation District (LCID), Antelope Valley-East Kern Water Agency (AVEK), Palmdale Water District (PWD), and Antelope Valley State Water Contractors Association (AVSWCA) for the Big Rock Creek – Groundwater Recharge Project (Project).

Background:
The AVSWCA Strategic Water Plan Ad Hoc Committee has identified an opportunity for a joint groundwater recharge project. The project is intended to provide the participants with an additional resource for delivering imported water to the Antelope Valley Groundwater Basin for recharge and storage. Association staff have developed an MOU for the initial phase of the Project, covering the feasibility study and documentation to comply with the California Environmental Quality Act (CEQA). This MOU divides the cost sharing among the participants for the initial phase as follows: PWD 47.5%, AVEK 47.5% and LCID 5%. Following the completion of the initial phase, a separate MOU will be developed for any subsequent phase covering design, construction and operations and maintenance of the Project.

Strategic Plan Initiative/Mission Statement:
This work is part of Strategic Initiative No. 1 – Water Resource Reliability.
This item directly relates to the District's Mission Statement.

Budget:
PWD will be responsible for 47.5% of the costs associated with the initial phase of the Project. This cost will be determined after AVSWCA selects a proposal from an engineering firm to complete the CEQA compliance and feasibility studies.

Supporting Documents:
- Memorandum of Understanding for the Big Rock Creek – Groundwater Recharge Project

MEMORANDUM OF UNDERSTANDING
BY AND BETWEEN
LITTLEROCK CREEK IRRIGATION DISTRICT,
ANTELOPE VALLEY-EAST KERN WATER AGENCY,
PALMDALE WATER DISTRICT,
AND
ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION
FOR THE BIG ROCK CREEK – GROUNDWATER RECHARGE PROJECT

This Memorandum of Understanding For the Big Rock–Creek Groundwater Recharge Project ("MOU") is dated **(** **)**, 2018 ("Effective Date"), and is entered into by and between Littlerock Creek Irrigation District ("LCID"), Antelope Valley-East Kern Water Agency ("AVEK") Palmdale Water District ("PWD"), and the Antelope Valley State Water Contractors Association ("Association"). LCID, AVEK, PWD, and the Association shall be the signatories to this MOU and shall hereinafter collectively be referred to as the ("Parties").

NOW THEREFORE, for good and valuable consideration, the receipt and adequacy of which are acknowledged, the Parties agree as follows:

1. PURPOSES AND GOALS

On May 26, 1999, LCID, AVEK, and PWD entered into a Joint Powers Agreement ("JPA") creating the Antelope Valley State Water Contractors Association, in order to provide for the conjunctive utilization of the local groundwater and imported water supply within the Antelope Valley Groundwater Basin. The Antelope Valley Groundwater Basin constitutes a common source of water supply and a common groundwater storage facility for the customers and inhabitants of all three agencies.

Pursuant to Section 3 of the JPA, the Association shall have the power to exercise joint and common powers of its members in studying, planning, and implementing programs for coordinated utilization of the groundwater and groundwater storage capacity of the Antelope Valley.

Pursuant to the powers granted to the Association under the JPA, the Association seeks to implement a Project that will evaluate, plan, permit, design, construct, operate, and maintain the Big Rock Creek – Groundwater Recharge Project, hereinafter referred to as "Project." This MOU memorializes the parties' intention to plan and initiate the Project.

2. UNDERSTANDING OF THE PARTIES

2.1 Project Development

Subject to the terms and conditions of this MOU, the Parties agree to cooperate in good faith to jointly develop the Big Rock Creek – Groundwater Recharge Project. The initial phase (Feasibility and CEQA compliance) of the Project will include the preparation of a Feasibility

Report/Conceptual Design and completion of environmental documentation that meets the requirements of CEQA. The terms and conditions of each Phase (Feasibility/CEQA, Design, Construction, and Operation & Maintenance) will be set forth in separate phase-specific agreements to be mutually agreed upon by the Parties in accordance with the provisions of this MOU.

Operation and maintenance cost allocation shall be determined once the Project is in the final Design and Construction Phase. Operation and Maintenance Cost Allocation terms shall be set forth in the final Design and Construction Phase agreement. The Parties shall cooperate in good faith to determine the appropriate Operation and Maintenance Costs that shall be borne by each Party.

2.3 Project Administration

Association staff shall be responsible for Project Administration, including project management, communication, and coordination between the Parties and any Consultants contracted by the Association.

2.4 Project Feasibility and CEQA Phase Cost Allocation

The total Project Feasibility and CEQA Phase Costs shall be borne by the Parties according to the following percentages:

a. Antelope Valley-East Kern Water Agency: 47.5%
b. Littlerock Creek Irrigation District: 5.0%
c. Palmdale Water District: 47.5%

2.5 SWP Fixed and Variable Costs

Each Party shall be responsible for its State Water Project ("SWP") related variable costs incurred with delivering its Table A SWP water to the Project.

Each Party shall continue to pay its fixed SWP costs associated with making its Table A SWP water available for recharge using the Project.

2.6 Accounting

Association staff shall submit detailed quarterly accounting of all staff time and expenses made in connection with the Project.

2.7 Governmental Approvals

The Parties shall cooperate with each other and with State Agencies in preparing all necessary agreements and permits to construct and operate the Project.

2.8 Environmental Compliance

2.8.1 The Parties shall comply with the California Environmental Quality Act (CEQA) and cooperate with one another with respect to any and all CEQA compliance that may be required for the Project.

2.8.2 The Parties shall be individually responsible for any other environmental review or permitting necessary to implement the Project within their own respective service areas.

2.9 Return Water

The Parties shall cooperate with one another and work with the Antelope Valley Watermaster to determine the authorization to recover water that has been recharged by each Party.

2.10 General Expenses

Each Party shall be responsible for its own fees and expenses arising out of the negotiation and execution of this MOU. Each Party shall obtain any and all necessary Board Approvals arising out of the negotiation and execution of this MOU.

3. GENERAL PROVISIONS

3.1 Assignment

This MOU shall not be construed to create any rights on behalf of any person or entity other than the Parties. Neither this MOU nor any rights or duties hereunder may be assigned or delegated by either party hereto without the written consent of the other Parties and any such purported assignment or delegation shall be null and void and of no force or effect. The Parties further covenant that the respective Parties shall not assign any portion of the Funds without the prior written consent of all of the other Parties.

3.2 Representations and Warranties of the Parties

The Parties hereby represent and warrant to each other that, to the best of their knowledge, information, and belief, they have full power and authority to enter into this MOU and agree in good faith to seek to obtain all powers and authority to consummate the transactions contemplated herein.

3.3 Termination

Each party reserves the right to withdraw from the Project at any time. The party terminating their participation will notify the other parties, in writing, thirty (30) days prior to the anticipated termination date. Upon withdrawal by any party, with or without cause, no party will have any right to actual or liquidated damages against any the other party.

3.4 Modifications

The entire MOU between the Parties is contained herein and no change, modification, termination, or discharge of this MOU shall be effective unless in writing and signed by each party to be charged therewith.

3.6 Severability

If any of the provisions of this MOU shall be such as to destroy its mutuality or to render it invalid or illegal, then if it shall not appear to have been so material that without it this MOU would not have been made by the Parties, it shall not be deemed to form a part hereof but the balance of this MOU shall remain in full force and effect.

3.7 No Liability

Each Party will use its best efforts to further the Project; provided, however, no Party makes any representations or warranty to the other Parties regarding the viability or success of the Project.

3.8 No Individual Liability

No Commissioner, director, officer, agent, or employee of the Parties shall be held personally liable under any provision of this MOU or because of its execution or attempted execution or because of any breach or alleged breach hereof.

3.9 Binding Agreement

This MOU is not intended to create a binding agreement to undertake development of the Project unless and until final forms of documents have been approved by the respective Boards of the Parties and executed and delivered by the Parties.

3.10 Counterparts

This MOU may be executed in counterparts, each of which will be deemed to be an original, and such counterparts will constitute one and the same instrument.

3.11 Waiver

Failure of any party to require performance of any provision of this MOU shall not limit that party's right to enforce the provision. Waiver of any breach of a provision shall not be a waiver of any succeeding breach of the provision or a waiver of the provision itself or of any other provision.

3.12 Integration

This MOU contains the entire agreement between the parties respecting the matter set forth, and expressly supersedes all previous or contemporaneous agreements, understandings, representations, or statements between the parties respecting this matter.

3.13 Further Assurances

Whenever requested to do so by the other party, each party shall execute, acknowledge, and deliver all further conveyances, assignments, confirmations, satisfactions, releases, powers of attorney, instruments of further assurance, approvals, consents, and all further instruments and documents as may be necessary, expedient, or proper, in order to complete all conveyances, transfers, sales, and assignments under this MOU, and to do all other acts and to execute, acknowledge, and deliver all documents as requested in order to carry out the intent and purpose of this MOU.

3.14 Expenses

Parties each shall be solely responsible for expenses incurred in connection with the negotiations for the purposes described herein.

3.15 Litigation Costs

If any legal action or any other proceeding, including arbitration or an action for declaratory relief, is brought for the enforcement of this MOU or because of an alleged dispute, breach, default, or misrepresentation in connection with any provision of this MOU, the prevailing party shall be entitled to recover reasonable attorney fees and other costs incurred in that action or proceeding, in addition to any other relief to which the prevailing party may be entitled. "Prevailing party" shall include without limitation:

(a) a party who dismisses an action in exchange for sums allegedly due;

(b) a party who receives performance from another party of an alleged breach of covenant or a desired remedy where the remedy is substantially equal to the relief sought in an action; or

(c) the party determined to be the prevailing party by a court of law.

3.16 Miscellaneous

3.16.1 This MOU will be governed by and construed under the laws of the State of California.

3.16.2 The Parties waive any statutory or common law presumption which would serve to have this document construed in favor and against any party as the drafter.

3.16.3 This MOU binds the Parties, their heirs, executors, administrators, successors and assigns.

3.17 Notice

3.17.1 Any correspondence, communication or contact concerning this MOU must be directed to the Parties at the name and address listed herein.

3.17.2 Notice will be deemed as given upon personal delivery, receipt of e-mail, receipt of fax confirmation, or five days after deposit in U.S. Mail, first-class postage, prepaid, and addressed as set forth above.

If to Littlerock Creek Irrigation District:

Attn: General Manager
35141 87th St. East Littlerock, CA
Tel.: (661) 944-2015
Fax: (661) 944-3668

With a Copy to:

Keith Lemieux, Esq.
Olivarez, Madruga, Lemieux & O'Neill
4165 E. Thousand Oaks Blvd, Suite 350
Westlake Village, CA 91362
Tel: (805) 495-4770
Fax: (805) 495-2787

If to Antelope Valley-East Kern Water Agency.:

Attn: General Manager
6500 West Avenue N
Palmdale, CA 93551
Tel.: (661) 943-3201
Fax: (661) 943-3204

With a Copy to:

Bill Brunick, Esq.
Brunick, McElhaney & Kennedy PLC
1839 Commercenter West
San Bernardino, CA 92408-3303
Tel: (909) 889-8301
Fax: (909) 388-1889

If to Palmdale Water District:

Attn: General Manager
2029 East Avenue Q
Palmdale, CA 93550
Tel.: (661) 947-4111
Fax: (661) 947-8604

With a Copy to:

Eric Dunn, Esq.
Aleshire & Wynder LLP
3880 Lemon St., Suite 520
Riverside, CA 92501
Tel: (951) 241-7338
Fax: (951) 300-0985

If to the Association:

Attn: General Manager
2029 East Avenue Q
Palmdale, CA 93550
Tel.: (661) 947-4111

The Parties are signing this MOU as of the dates opposite their respective signatures.

LITTLEROCK CREEK IRRIGATION DISTRICT

By: _____

Attest:

_____
Secretary

Approved as to form:

_____
District Counsel

ANTELOPE VALLEY-EAST KERN WATER AGENCY

By: _____

Attest:

_____
Secretary

Approved as to form:

_____
Agency Counsel

PALMDALE WATER DISTRICT

By: _____

Attest:

_____
Secretary

Approved as to form:

_____
District Counsel

ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION

By: _____

P A L M D A L E W A T E R D I S T R I C T

B O A R D M E M O R A N D U M

DATE: April 2, 2018 **April 9, 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 APPROVAL OF CONTRACT AMENDMENT WITH ASPEN ENVIRONMENTAL TO COMPLETE PRECONSTRUCTION BIOLOGICAL SURVEYS FOR LITTLEROCK SEDIMENT REMOVAL PROJECT ($78,590.00 – NON-BUDGETED – ENGINEERING/GRANT MANAGER RILEY)***

Recommendation:
Staff recommends that the Board:
Approve contract amendment No. 10 with Aspen Environmental to complete preconstruction biological surveys for the Littlerock Sediment Removal Project in the amount of $78,590.

Alternative Options:
The Board may choose to not approve the contract amendment.

Impact of Taking No Action:
If the Board does not approve, the permits required for the grade control structure would likely be jeopardized and regulatory agencies could order District to stop the work.

Background:
The District completed in May 2017 the Final Environmental Impact Report and the Final Environmental Impact Statement for the Littlerock Sediment Removal Project. On June 20, 2017, the U.S. Forest Service issued the Record of Decision to allow the construction of the sediment removal project.

Final design of the grade control structure has been completed, and construction is expected to begin in late summer of 2018. The mitigation and monitoring plan presented in the Final EIR/EIS commits the District to conduct preconstruction surveys for biological resources as presented in the included Scope of Work for this Board Memorandum.

Strategic Plan Initiative/Mission Statement:
This item is under Strategic Initiative No. 1 – Water Supply Reliability
This item directly relates to the District's Mission Statement.

Budget:
Non-budgeted item

Supporting Documents:
- Proposal and Scope of Work from Aspen Environmental

SCOPE OF WORK
Amendment No. 10
Aspen Environmental
Pre-Construction Surveys
Littlerock Sediment Removal Project

See the attached hours and costs (totaling $78,590) related to required pre-construction surveys broken out from the Modification 10 budget we submitted to you on 3/14. The work associated with these costs would include the items listed below from Tasks 2 and 3.

Task 2: Biological Surveys, Pre-construction Sweeps, and Worker Training

Required Surveys

- Conduct pre-construction surveys for Least Bell's vireo, Southwestern willow flycatcher, arroyo toads, sensitive herpetofauna, ringtail, desert kit fox, American badger, burrowing owls, nesting birds, bats, plants, and other sensitive resources.

General Assumptions

- As required by regulatory permit conditions this task assumes protocol surveys at two locations (below dam and at Rocky Point) for Least Bell's Vireo and Southwestern willow flycatchers (assumes eight surveys will be completed).
- Assumes three (3) nights of surveys will be conducted for sensitive bats (assumes recon surveys for roosting bats).
- Assumes pre-construction surveys for weeds and sensitive plants (assumes two field days).

Task 3: Pre-construction Clearance Requirements & Monitoring and Reporting

Required Surveys

- Fencing, Monitoring, and Reporting. The first action will include focused surveys for arroyo toad followed by the placement of silt fencing (exclusion fencing) around the proposed work area.

General Assumptions

- Per mitigation requirements assumes protocol surveys for arroyo toad will be conducted by two biologists to search for any life stages within the proposed work area or in areas that would be impacted by construction. Assumes two biologists for six days at 12 hours per day. Assumes two biologists are required to inspect and install the exclusion fencing.

Aspen Environmental Group

Littlerock Reservoir Sediment Removal Project
Palmdale Water District

PROPOSED COST
Required Pre-Construction Surveys: Botanical, Avian, and Arroyo Toad

			Task 2 Surveys/Pre-Construciton Sweeps: Botany, Avian, Toad Work		Task 3 Pre-Construction Monitoring/Reporting: Botany, Avian, Toad Work		TOTAL	
Role/Category	**Key Personnel**	**Rate**	Hours	Cost	Hours	Cost	Quantity	Cost
Project Manager	Negar Vahidi	$195.00			10	$1,950	10	$1,950
Senior Biologist/Monitoring Lead	Chris Huntley	$195.00	30	$5,850	50	$9,750	80	$15,600
Senior Air Quality Specialist	Will Walters	$200.00						
Sr. Hydrologist/Design Lead	Phil Lowe	$175.00						
Senior Biologist/Permitting Specialist	Sam Stewart, Carl Demetropolis	$145.00			144	$20,880	144	$20,880
Environmental Planner	Scott Debauche, Tatiana Inouye	$155.00						
Biologist/Field Monitor	Margaret Schaap, Brady Daniels, Jenny Slaughter, Justin Wood	$140.00	96	$13,440	80	$11,200	176	$24,640
Biologist/Field Monitor	Erik Wardenburg	$105.00	40	$4,200			40	$4,200
Environmental Planner	Patrick Meddaugh	$110.00	10	$1,100			10	$1,100
GIS/Graphics	Tracy Popiel, Kellie Keefe	$110.00	20	$2,200	10	$1,100	30	$3,300
Admin/Clerical	May Talebi	$115.00	6	$690			6	$690
Graphics/Production	Kati Simpson	$125.00						
Project Accounting/Controls	Elise Camacho	$140.00	2	$280			2	$280
Senior Cultural Resources Specialist	Diana Dyste	$140.00						
Cultural Monitor	Allison Jaqua, Josh Noyer	$85.00						
Cutlural Specialist	Sarah Mace, Michelle Hart	$65.00						
Total Labor			204	$27,760	294	$44,880	498	$72,640
Direct Project Cost Item		**Unit Cost**		Cost		Cost		Total
Copies/Printing								
Lodging ($120) and Meals ($46)		$166.00	$10	$1,660	$15	$2,490		$4,150
Mileage		$0.535	500	$268	1200	$642		$910
Postage/Delivery								
Telephone (Cell+Conf Calls)								
Computer (per billable hour)								
Equipment Rental				$250		$100		$350
Document/Data Acquisition/Ads								
Materials								
Subtotal				$2,178		$3,232		$5,410
Aspen Fee on all Non-Labor Costs & Subs (10%)				$218		$323		$541
Total Non-Labor				$2,395		$3,555		$5,950
Total Cost				$30,155		$48,435		$78,590

AGENDA ITEM NO. 7.3

P A L M D A L E W A T E R D I S T R I C T

B O A R D M E M O R A N D U M

DATE:	April 2, 2018	**April 9, 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. 7.3 – 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. 7.4

Hotel and Travel Accommodations

Event Name/Date:

AWWA Annual Conference and Exposition, June 11 - 14, 2018, Las Vegas, Nevada

CONTACT INFORMATION

First Name | Last Name | Date

ACCOMMODATION INFORMATION

Rooms and rates are subject to availability. Complete and submit this form as soon as possible to guarantee a room at the host hotel. In the event that the host hotel is booked, every effort will be made to secure a room at the closet hotel within comparable rates to the event discounted rate.

Arrival Date | Departure Date | No. of guests | Room Type

Do you require a smoking room?

○ Yes ○ No

Do you need transportation from the airport to the hotel?

○ Yes ○ No

Flight Number | Time

ADDITIONAL INFORMATION/REQUESTS

Staff Representative

ACE18
ANNUAL CONFERENCE & EXPOSITION

ANNUAL CONFERENCE & EXPOSITION

INNOVATING THE FUTURE OF WATER

JUNE 11-14 | EXPOSITION: JUNE 12-14 | MANDALAY BAY CONVENTION CENTER| LAS VEGAS | USA



REGISTER

HOTEL/TRAVEL

PROGRAM

NETWORKING

EXPO

COMPETITIONS

INTERNATIONAL

EXPLORE THE IMPACT OF INNOVATION ON THE FUTURE OF WATER

ACE18 is set to inspire and connect the water sector with innovative solutions and new insights to help solve our global water challenges. This year AWWA is co-partnering with the California/Nevada Section to produce an outstanding conference. Don't miss your chance to soak up the knowledge of hundreds of water industry thought leaders providing guidance on the future of our water.

2018 Annual Conference & Exposition
June 11–14 | Las Vegas, NV
awwa.org/ace18

REGISTRATION FORM

American Water Works Association
6666 West Quincy Ave | Denver, CO 80235, USA
800.926.7337 or 303.794.7711

Individual Membership #_____ *or* Company Membership #_____

First Name _____ MI ____ Last Name _____

Company/Organization _____ Title _____

Mailing _____ City _____

State/Province_____ Country _____ ZIP/Postal Code _____

Primary Phone_____ ☐ Home ☐ Work E-mail (required) _____

Is this a change of address for your AWWA Membership? ☐ YES ☐ NO

If you require any special ADA accommodations to fully participate, provide phone # or email address. _____

Registration Category ** Eligibility will be verified*		**Super Saver Rate On or before April 25, 2018** *After April 25, increased rates will apply*	
Please Circle One		**Member**	**Nonmember**
A	Full-Conference	$850	$1,050
I	Field Operator (Full-Conference)*	$495	$695
U	Small Utilities Full-Conference (under 3500 customers)*	$495	$695
G	Exhibits-Only (nonexhibitors)	$155	$155
GF	Water/Wastewater Utility Employee Exhibits Only (after April 25, a registration fee will apply)*	$0	$0
H	Full-Conference Student (Full-time Student)*	$35	$35

Pre-Conference Workshops These are optional and an additional cost. You must be registered in one of the above categories to purchase workshops.				
Please Circle One		**Member**	**Nonmember**	**Student**
MON01	Aging Infrastructure Management—Hydraulic Analysis of Criticality and Component Failures in Water Distribution Systems (9:00am–12:00pm)	$110	$210	$30
MON02	Understanding and Using the ANSI/AWWA *G520, Wastewater Collection System Operations and Management Standard* (9:00am–12:00pm)	$110	$210	$30
MON03	Condition Assessment of Water Mains (9:00am–4:00pm)	$155	$255	$60
MON04	AWWA Manual *M5—Water Utility Management: What You Don't Know That You Probably Should* (9:00am–4:00pm)	$155	$255	$60
MON05	Water Main Rehabilitation & Utility Representation Case Studies (9:00am–4:00pm)	$155	$255	$60
MON06	Beyond the Spec Book: Learn What, How & When to Use Various Equipment in the Water Treatment Process (1:00–4:00pm)	$110	$210	$30
MON07	Implementation of AWWA Utility Management Standards to Optimize Utility Operations: ANSI/AWWA *G100, Water Treatment Plant;* ANSI/AWWA *G200, Distribution System;* ANSI/AWWA *G300, Source Water Protection* (1:00–4:00pm)	$110	$210	$30
MON08	Role of Groundwater Models in Sustainable Groundwater Management (1:00–4:00pm)	$110	$210	$30
Public Officials Courses These are optional and an additional cost. You must be registered for the conference in one of the above categories to purchase courses. Public Officials Only.				
CRT1	Introduction to Water and Sewer Operating Environments	$95	$195	N/A
CRT2	Water and Sewer Infrastructure, Operations, and Maintenance	$95	$195	N/A
CRT3	Leadership, Risk, and Sustaining Your Water and Sewer Utility for the Future	$95	$195	N/A
CRT4	All Three Courses: Attendees earn an AWWA Public Officials Certificate	$285	$585	N/A

Facility Tours These are optional and an additional cost. Limited capacity. You must be registered for the conference in one of the above categories to purchase tours.		
T1 (WED)	Hoover Dam—Wednesday Tour (7:45am–12:30pm) **SOLD OUT**	$70
T2 (WED)	Bellagio - Behind the Scenes of the Fountain System (8:00am–12:00pm) **SOLD OUT**	$55
T3 (WED)	MGM Sustainability Program at the MGM Grand Hotel (8:30am–12:00pm)	$55
T4 (WED)	Mirage Dolphin Habitat & Mandalay Shark Reef (8:30am–12:00pm) **SOLD OUT**	$55
T5 (THU)	River Mountains Water Treatment Facility (7:30am–12:00pm)	$55
T6 (THU)	Hoover Dam—Thursday Tour (7:45am–12:30pm) **SOLD OUT**	$70
T7 (THU)	Las Vegas Wash Tour & Clark County Wetlands Park (8:00am–12:30pm)	$55
T8 (THU)	Springs Preserve Behind the Scenes Tours (8:30am–12:00pm)	$70
T9 (THU)	Desert Princess Boat Tour at Lake Mead Cruises (10:30am–4:00pm)	$75

Ticketed Events These are optional and an additional cost (if indicated).		**Qty**	**Price**	**Total**
T10 (TUE)	First-time Attendee Program (First-Time ACE attendees ONLY please)		NC	
T11 (TUE)	Student/Young Professionals Scavenger Hunt		NC	
T12 (WED)	Public Officials Breakfast and Caucus (*Must* be a Public Official to attend)		NC	
T13 (WED)	Water Industry Luncheon		$60	
T14 (THU)	Fuller Breakfast		$45	
T15 (THU)	AAEES/AIDIS/AWWA Luncheon		$50	

(Please complete both sides) →

Registrant Name: _____

Spouse/Guest Registration		Qty	Price	Total
SA	Spouse/Guest (non-industry - will be verified)		$25	
Name:		Name:		

What one business activity best describes your company? (Please circle only one–**Required.**)

A. Public Water Supply Utility–Municipally Owned
B. Public Water Supply Utility–Investor Owned
C. Government–Federal, State, Local
D. Consulting Firm
E. Contractor
F. Private Industrial System or Water Wholesaler
G. Manufacturer of Equipment & Supplies
H. Distributor of Equipment & Supplies
I. Educational Institutions (Faculty & Students)
J. Fully Retired
K. Research Lab, Libraries and other related organizations
L. Public Official
M. Other (please specify _____

What one category best describes your job function? (Please circle only one–**Required.**)

A. Administrative
B. Communications
C. Customer Service
D. Education
E. Engineering
F. Executive
G. Finance
H. Human Resources
I. Information Technology
J. Legal
K. Legislative/Regulatory
L. Management
M. Operations - Operator
N. Operations - Other
O. Public/Elected Official
P. Purchasing
Q. Quality Assurance/inspections
R. Retired
S. Safety
T. Sales & Marketing
U. Scientific/Research
V. Security/Emergency Preparedness
W. Other (please specify) _____

What category best describes your field served/principal activity? (Select all that apply–**Required.**)

A. Potable Water Supply Only
B. Wastewater Only
C. Stormwater Only
D. Reuse
E. Other (please specify) _____

Which of the following best describes your responsibility for purchasing decisions? (Please circle only one–**Required.**)

A. I have sole responsibility
B. I provide input to decision makers
C. I share responsibility
D. I do not provide input or make purchasing decisions
E. Other (please specify) _____

What type of products or services are you coming to our Exhibit Hall to see? (Select all that apply–**Required.**)

A. Aerators/Equipment
B. Aquifer/Watershed
C. Biosolids Handling
D. Certification
E. Chemicals/Equipment
F. Conservation
G. Construction/Equipment
H. Contractors
I. Corrosion
J. Distribution System Analysis/Equipment
K. Electrical
L. Filter Equipment/Material
M. Gas Detection/Equipment
N. GIS
O. Groundwater
P. Hazardous Waste
Q. Hydrants
R. Instrumentation
S. Laboratory Services/Equipment
T. Leak/Backflow Prevention
U. Management/Consultant/Services
V. Manhole
W. Membrane Systems/Equipment
X. Meters/Flowmeters
Y. Modeling
Z. Monitoring/Equipment
AA. Parts/Tools
BB. Pipe/Equipment
CC. Pumps
DD. Safety/Equipment
EE. Sewer Inspection/Equipment
FF. Software
GG. Tanks/Equipment
HH. Trench Systems/Equipment
II. Valves/Gates
JJ. Water Supply/Wastewater/Treatment/ Equipment
KK. Well Design/Equipment
LL. All of the Above
MM. Other (please specify) _____

Are you a first-time attendee? ☐ **YES** ☐ **NO**

Would you like to be involved with AWWA Committees? ☐ **YES** ☐ **NO** ☐ **Already Involved**

Total/Method of Payment: **AWWA Federal Tax ID# 13-5660277**

Total Amount Due: $_____

☐ Check ☐ American Express ☐ Discover ☐ MasterCard ☐ Visa ☐ Government PO

Card #: _____ Security Code _____ Exp. Date: _____

Signature: _____

By registering for this event, your contact information may be shared with exhibitors and/or sponsors.

Fax this form to 303.347.0804

Cancellation Policy: AWWA must receive cancellations in writing. Phone cancellations are not accepted. All cancellations dated by 04/25/18 will receive a refund, minus a 25% administrative fee. Beginning 04/26/18, cancellations will not be refunded; however, substitute registrants are welcome. Email requests for substitutions or cancellations to service@awwa.org or fax requests to 303.347.0804.

This form is not valid for on-site registration or exhibitor registration.

ACE18 HOUSING IS OPEN

Pay close attention to the dates as the pattern is shifting by a day: Workshops will be on Monday, Opening General Session on Tuesday, Professional Sessions and the Exposition Tuesday - Thursday and Water Industry Luncheon will be Wednesday.

ACE18 shuttle bus service will be provided between the Mandalay Bay Convention Center, MGM, and Excalibur. **Mandalay Bay Tram** service is also available between Mandalay Bay, Excalibur and Luxor.

Mandalay Bay Convention Center
3950 Las Vegas Blvd South
Las Vegas, NV 89119, US

Please note that the ACE18 Conference begins on Tuesday June 12th.

Headquarter Hotel: Mandalay Bay Resort & Casino

Hotel Rates:

Delano Las Vegas
Sunday – Thursday $208
Fri & Sat $238
Rates are per night and do not include 13.38% tax and discounted resort fee of $20.00/day

Excalibur Hotel & Casino
Sunday – Thursday $40
Fri & Sat $119
Rates are per night and do not include 13.38% tax and discounted resort fee of $20.00/day

Luxor Las Vegas
Sunday – Thursday $70
Fri & Sat $125
Rates are per night and do not include 13.38% tax and discounted resort fee of $20.00/day

Mandalay Bay Resort & Casino
Sunday – Thursday $178
Fri & Sat $208
Rates are per night and do not include 13.38% tax and discounted resort fee of $20.00/day

MGM Grand
Sunday – Thursday $139
Fri & Sat $199
Rates are per night and do not include 13.38% tax and discounted resort fee of $29.00/day

Call Center Hours
Monday - Friday
6:00 am - 5:00 pm PST
Toll Free 866-364-9515 or Local: 310-590-4736

For attendee assistance with reservation changes or to make a new reservation, please contact our official housing company, **Par Avion** or call 866.364.9515.

RESERVATION AND CANCELLATION POLICY

Reservations are processed on a first-come, first-served basis and must be made by **May 15, 2018**, to receive the AWWA discounted room rate. Room rates do not include local taxes, currently 18%, subject to change.

All reservations require a credit card deposit in the amount of one night's lodging, plus tax. The deposit will be credited to your hotel bill on the date that the deposit is posted by the hotel (approximately 3 to 4 weeks prior to your arrival for those reserving rooms by the **May 15, 2018**, deadline).

One night's lodging deposit is nonrefundable if you are a no-show. Refunds of deposits will be made only on cancellation requests received 72 hours prior to the day of scheduled arrival.

All cancellations/changes must be made in writing and emailed to the **AWWA Housing Bureau** or faxed to 310.649.3554 .

For all cancellations made after **April 20, 2018**, a $50 processing fee will be charged directly to your credit card. An additional room and tax cancellation fee will also be charged to your credit card by the hotel if your reservation is not cancelled 72 hours prior to your scheduled arrival date.

No checks will be accepted per hotel policy.

- **Airport, Parking & Transportation**

Airport

McCarran International Airport
5757 Wayne Newton Boulevard
Las Vegas, Nevada 89119

Conference Hotel, Directions and Parking

Mandalay Bay Convention Center
3950 S Las Vegas Blvd
Las Vegas, NV 89119

American Water Works Association

ACE18

ANNUAL CONFERENCE & EXPOSITION

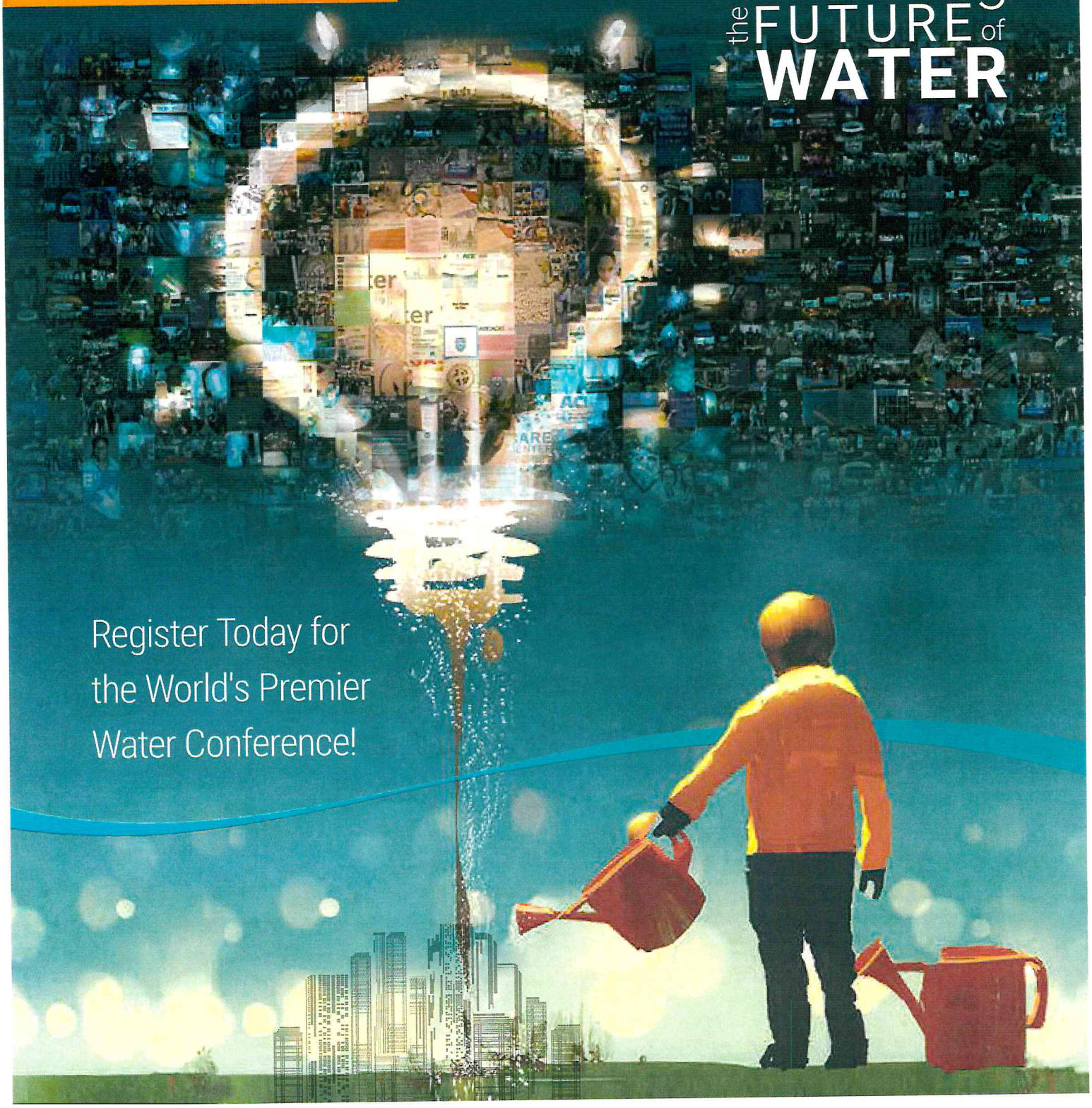
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JUNE 11–14 | LAS VEGAS, NEVADA
MANDALAY BAY CONVENTION CENTER
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CONFERENCE HIGHLIGHTS

Innovating the FUTURE of WATER



Register Today for the World's Premier Water Conference!

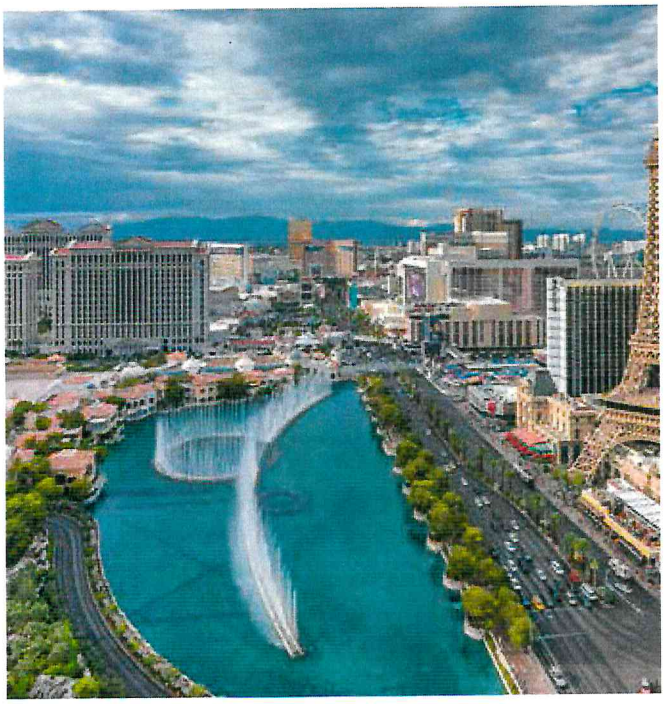
OPENING GENERAL SESSION

To view the most up-to-date professional program by date and track, visit **awwa.org/ACE18**

TUESDAY, JUNE 12 | 8:30–10:00 A.M.

The ACE18 Opening General Session features NPR Science Correspondent and award-winning journalist, Ira Flatow. Flatow is the host of NPR's "Science Friday," a call-in radio program and podcast that connects 2 million weekly listeners with scientists for informative discussions about science, technology, health, space, and the environment. Flatow has discussed cutting-edge science stories on a range of programs, including the four-part PBS series Big Ideas, and his podcasts are among the most listened to on the Internet. He describes his work as a challenge "to make science and technology a topic for discussion around the dinner table."

Flatow kick-starts ACE18's Innovation theme by introducing the Catalysts of Creativity, describing where new ideas for inventions and advances come from - and how even non-scientists, like actors, musicians, and plain folk are being granted patents for their creative ideas. Flatow explores how current events influence the creative process, and why some ideas need the right time and place to be successful. Don't miss this unique opportunity to catalyze your ACE18 conference experience!



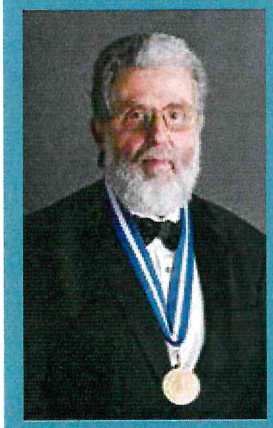


KEYNOTES

To view the most up-to-date professional program by date and track, visit **awwa.org/ACE18**

TUESDAY KEYNOTE ADDRESS

June 12 | 1:00 – 1:45 P.M.



Dr. Charles N. Haas
LD Betz Professor of Environmental Engineering

Head – Dept. of Civil, Architectural & Environmental Engineering

Drexel University, Philadelphia, PA

A.P. Black Research Award Winner

QMRA in Drinking Water: Lessons Learned and Paths Forward

ASSOCIATION OF ENVIRONMENTAL ENGINEERING AND SCIENCE PROFESSORS KEYNOTE

TUESDAY, JUNE 12 | 11:30 A.M. – 12:15 P.M.



Dr. John E. Tobiason
Professor of Civil and Environmental Engineering
University of Massachusetts Amherst, Amherst, MA

Fundamental Approaches for Effective Manganese Control

Despite wide-spread and long-known needs and implementations for manganese control, misconceptions and over-generalizations still lead to inadequate process performance. Fundamental understanding and data based assessments are essential for effective and robust manganese removal processes.

WATER UTILITIES ISSUES FORUM

WEDNESDAY, JUNE 14 | 11:15 A.M.–12:30 P.M.

Addressing the Challenge of Affordability

Join your fellow attendees for a conversation exploring key questions, challenges, and solutions to advance the knowledge and understanding of affordability.

Affordability is an undeniable challenge for many utilities, with rate increases necessary for some utilities to sustainably fund infrastructure projects on an ongoing basis increasing the financial burden on utility customers. Utilities have addressed affordability concerns in a variety of ways, often with the regulatory framework driving differences at a local, regional, and federal level. The Water Utilities Issues Forum will address affordability from the perspectives of thought leaders in utilities, academia, and the consulting community.



Rick Giardina
Executive Vice President, Raftelis

Rick Giardina has over 39 years of managerial and financial experience in the private and public sector covering technical areas such as municipal fee development, utility cost of service and rate structure studies, privatization and regionalization feasibility and implementation studies, management and operational audits, and rate filing and reporting.



Manny Teodoro
Associate Professor, Texas A&M University

Manny Teodoro's scholarship stands at the nexus of politics, public policy, and public management, with emphases on American environmental policy. Professor Teodoro pursues a line of applied research on utility management, policy, and finance, working with industry leaders on management and policy issues.

Moderated by David LaFrance, AWWA's CEO, this lively facilitated discussion will cover a range of affordability topics and provide the opportunity to address audience questions about the most important and challenging issues associated with affordability.

Q&A HIGHLIGHTS

Kurt Vause, StreamlineAM, Principal Owner (former Chief Engineer at AWWU)

Authored Sessions:
MON03-03 | Asset and Risk Management Principles and Procedures for Condition Assessment
TUE07-01 | SDWA Reauthorization -Status and Overview



1. What made you decide to look further into this subject?
KV: The pace of change is fantastic. I need to regularly engage in updating my knowledge of the subject.

2. How does your presentation contribute to this year's theme – Innovating the Future of Water? And, what is your goal for the future of water?
KV: Economic use of condition assessment is a real challenge in today's marketplace. There is significant innovation going on in the marketplace, and utilities need to be aware of, and use new tools, in developing their programs.

3. What is the biggest challenge throughout your studies?
KV: To be able to integrate learnings into action at the utility level.

4. What key points should your audience leave with?
KV: AWWA is the authoritative resource to obtain great information; practitioners should avail themselves of the latest literature and practices; and the time is coming where customers, regulators, and economics dictate a new way of doing business.

5. What are your thoughts on helping to solve the global water crisis?
KV: Globally, there is a crisis in water supply; nationally there is a crisis of customer confidence in public water supplies; and locally there are areas in need of reinvesting in infrastructure to maintain acceptable levels of service. To solve all three, utilities need to improve business practices, engage more with customers, and undertake improvements that promote water use efficiencies. Our work at AWWA addresses all three areas.

6. What is the most interesting trend for 2018?
KV: Government interest in promoting more partnerships between community water systems, particularly to improve compliance and efficiencies in operation

7. In what ways do you believe we can get the younger generations more involved?
KV: This issue requires multi-faceted elements like AWWA's Water Equation. Providing mentoring opportunities, scholarships for those willing to practice in the field, engagement in the Community Engineering Corps, and having utility outreach programs (internships; community presentations; social media presence, corporate sponsorships, etc.) are all important elements we can engage younger generations. Finally, publicly owned utilities need to update their employment practices to offer what today's youth expects from employers in order to compete with other opportunities offered younger generations.

8. Will you be available throughout the day or only during the time of your presentation to answer questions?
KV: Will be present at entire conference, and available, except for times where I will have other duties at the conference.

9. What is your water spirit animal?
KV: Huskie dawgs!!! - spoken as a graduate of the University of Washington.

Q&A HIGHLIGHTS

Ken Thompson, CH2M/Jacobs, Senior Fellow Technologist

Co-Authored Sessions:
TUE21-06 | Completion of the Advanced Metering Infrastructure Pilot Study: Backflow, Resiliency, and Tampering
WED06-01 | Online Monitoring as a Tool for Managing Distribution System Water Quality



1. What made you decide to look further into this subject?

KT: I became interested in smart systems when I worked at Irvine Ranch Water District in the 1990s. We were looking at real time monitoring to protect our water reclamation plant from upstream discharges from military bases and industries. This included evaluating technologies for monitoring in collection systems, automatically taking a samples when unexplained anomalies occurred and predicting when the flow would reach the plant so it could be diverted into a basin and not impact the treatment processes.

2. How does your presentation contribute to this year's theme – Innovating the Future of Water? And, what is your goal for the future of water?

KT: Yes, it does match the theme of the conference. My goal in 2018 is to continue to work with utilities worldwide to develop and implement intelligent water solutions that solve their toughest problems.

3. What is the biggest challenge throughout your studies?

KT: Utilities have extraordinary demands on their staff and available funding. Developing a strong business case is the greatest challenge to move a smart water project forward. The business case should include tangible qualitative and quantitative benefits.

4. What key points should your audience leave with?

KT: That smart water systems are here and utilities can solve critical problems to improve compliance and operational efficiency.

5. What are your thoughts on helping to solve the global water crisis?

KT: Blending process, people, and technology together to solve major problems, such as water loss will help to provide water for the growing population.

6. What is the most interesting trend for 2018?

KT: The advancement of data analytics and artificial intelligence to create new levels of actionable information.

7. In what ways do you believe we can get the younger generations more involved?

KT: The younger generation will be attracted using advanced technology and data analytics. The younger generations have all grown up with smart technology and will expect their companies to use it to eliminate work that can easily be automated.

8. Will you be available throughout the day or only during the time of your presentation to answer questions?

KT: I will be available throughout the conference.

9. What is your water spirit animal?

KT: Orcas.

HIGHLIGHTED TRACKS

International and Innovation Sessions

The ACE18 Innovation and Technology track highlights perspectives from innovation thought leaders, as well as solutions for IT professionals in the water sector.

TUE02

Reduce Energy Use and Harmful Emissions with Free/Low-Cost Tools

This session will include the results from a pilot competition between water utilities to use PEPSO and LEEM to reduce energy and harmful emissions. PEPSO is modeling software to optimize distribution systems by reducing pump energy usage. LEEM provides predictive and real-time emission intensity data for mercury, CO2, SO2, NOx, and lead to equip utilities to shift energy usage to times when less harmful emissions are generated and released.

TUE11

Utility Communications Technology Options -- What Are the Important Considerations for A Smart Water / Smart City Infrastructure?

An increasing percentage of water utilities are looking to enhance communications infrastructure must effectively evaluate multi-faceted and disparate technology options-AMR, AMI, cellular and emerging IoT protocols-to support advanced reading, monitoring and reporting capabilities. Attendees will gain practical understanding of available solutions' capabilities, and guidance to make the necessary assessments for their needs.

WED03

Solving Water Challenges Through Technology—Global Case Studies

This session is developed to introduce advanced water technologies that are available outside the US. In this session, the audience will not only learn about the technology, but also the outcomes of its implementation. The audience will be able to learn and exchange information under a common global issue: water.

WED10

Innovations in Construction Methods and Delivery

Projects further the growth of a utility's infrastructure and involve a significant amount of monetary investment, and when completed, are expected to service the utility and it's customers for decades. Challenges occur throughout the planning, design and construction phases and solutions are often as unique as the problems. This session will highlight design/build techniques to get the project done.

WED11

Voice of The Customer: Listening to Medium Utilities

The strength of the water market is that utilities are not typically competitors and would benefit from sharing of challenges to identify mutual needs that can be pursued in collaboration, and from exchanging ideas and success stories with peers. This session will focus on identifying the unique challenges faced by medium-sized utilities and the next steps toward applying innovative solutions to address utility needs.

WED12

Your Choice Matters: Smart Water Solutions to Reduce Non-Revenue Water

In the drive to create more efficient and sustainable water infrastructures, while reducing non-revenue water, utilities are beginning to use Internet of Things (IoT) technologies and existing cellular networks, next generation metering, and end water consumer engagement tools that can broaden overall ROI. Attendees will learn about IoT cellular networks, ultrasonic water metering, and the benefits of customer engagement tools to monitor water use and leaks.

WED29

Innovative Approaches to Overcoming Water Management Challenges (Part 1)

In this session, the US water managers will be able to hear and learn from global water managers as to what water management challenges they face and how they have or plan to overcome them. This session will provide a platform for US and global water managers to connect and exchange ideas and experiences in overcoming the escalating water challenges.

WED35

Innovation Initiative: State of The Innovation State

The Innovation Initiative was launched at ACE13 with a focus to overcome barriers to innovation and new technologies in the water and wastewater industry. This multi-stakeholder initiative was designed to engage everyone involved with providing total water solutions and to cut through the barriers and silos that inhibit adoption of innovation/new technologies. A new strategic plan for the Innovation Initiative was launched at ACE17. This must-see session includes a facilitated round-table discussion with the US EPA leaders and their thoughts on encouraging innovation. The second presentation will review the progress and deliverables with the implementation of the Innovation Initiative's strategic plan. The final presentation will have three parts; first an update from the Water Research Foundation on their efforts around innovation, followed by a review of the WEF Lift Program, and will conclude with a case study around a utility's experiences and approaches to implementing innovation. The session is designed to encourage an interactive lively discussion between panelists and the audience. Come prepared to participate in this important conversation about how to inspire innovation in our industry.

WED37

Navigating a Digital Utility Transformation - Embracing a Smart Water Future

While many utilities are looking for ways to improve the pace of technology adoption, they often have difficulty justifying the expenditure. In many cases there is little understanding of the long-term potential to transform the way utilities manage treatment, distribution, and collection. Hear from SWAN, the Smart Water Networks Forum, and utility leaders about innovation and smart water journeys.

THU06

Appyling Advanced Infrastructure Across the Water Cycle

Utilities are using smart solutions to help with capital planning, improve operations and enhance customer service. This presentation will demonstrate how to advance existing

INNOVATION LOUNGE

To view the most up-to-date professional program by date and track, visit awwa.org/ACE18

The theme of ACE18 is *Innovating the Future of Water*, and there is no better place to learn about water sector innovations than in the Innovation Lounge, powered by Isle Utilities. The Innovation Lounge features a pool of emerging technologies and innovation resources, offering new approaches and solutions for the water sector – to help navigate challenges, implement solutions, and realize system improvements.

ACE18 offers an in-depth look at *Innovating the Future of Water* throughout the conference's professional program. Programming in the Innovation Lounge features Isle Utilities' Tech Pitch Competition where providers of emerging technologies compete in a "Shark Tank" style competition. Engage with innovation thought leaders, progressive water utilities, and manufacturers and providers of proven, innovative solutions, as they share their perspectives on Innovating the Future of Water.

Innovation Lounge Highlights

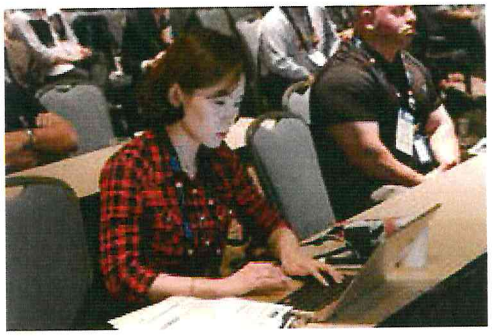
Guided Tours
Join us for guided tours of the Innovation Lounge, with introductions to all of the participating companies – offered daily at noon.

TUESDAY | JUNE 12	WEDNESDAY | JUNE 13
Innovation Lounge Grand Opening 10:30 A.M. Join AWWA and water sector innovation leaders in opening the ACE18 Innovation Lounge.	**Isle Tech Pitch Competition** Providers of emerging technologies compete in a "Shark Tank" style competition for the Isle Tech Pitch Competition Award. Sponsored by Mueller Water Products.
Startup Showcase – Imagine H2O 2018 Innovation Accelerator Hear directly from the innovators about the opportunities their emerging technologies deliver.	**AWWA's Innovation Initiative Perspectives** Diverse perspectives come together to support attendees in Innovating the Future of Water.
No Water, No Beer Happy Hour 4:00–5:00 P.M. Sponsored by Brown and Caldwell	

ACE ONLINE SESSIONS

View more than 30 hours of professional session content. Sessions will be recorded and available to view at the end of July. Enjoy access to ACE Online for one year.

TUESDAY KEYNOTE	
WATER UTILITIES ISSUES FORUM	
TUE01	Building a Sustainable Workforce
TUE08	Asset Management Planning
WED11	Voice of The Customer: Listening to Medium Utilities
WED16	A Regulatory Look at DPR And Pathogen Credits
WED33	Considerations for Sound Rate Setting
WED47	Finding Sources of Lead and Providing Effective Corrosion Control
THU03	Corrosion Control and Nitrification Prevention in Small Distribution Systems
THU05	Wall Street Demystified
THU27	Asset Bundling, Alternative Financing and Cold Hard Cash
THU31	The Importance of IT Master Planning and Cybersecurity



WELCOME TO THE

WELCOME TO THE ACE18 EXHIBIT HALL

TUESDAY, JUNE 12 | 10:00 A.M.–5:00 P.M.

WEDNESDAY, JUNE 13 | 10:00 A.M.–6:00 P.M.

THURSDAY, JUNE 14 | 10:00 A.M.–2:00 P.M.

Online Interactive Floor Plan
Visit: **bit.ly/ace18exhibithall**

- Pre-plan your ACE Exhibit Hall experience
- Search exhibitors by company name, booth number or product and service category
- Find destinations and events on the show floor

EXHIBIT HALL DESTINATIONS

AWWA Pavilion

- Publishing & Education
- Merchandise Store
- Membership
- Partnership for Safe Water and Partnership for Clean Water
- Water Utility Energy Challenge
- Water Equation
- Community Engineering Corps
- ACE19 in Denver

Career Center Job & Education Fair

Competitions

Exhibit Hall Education

- Innovation Lounge
- Poster Sessions
- Roundtable Solution Sessions

Expo Café

International Resource Center

COMPETITIONS

PIPE TAPPING

Tuesday, June 12 | 2:00–5:00 P.M.
Wednesday, June 13 | 10:00 A.M.–6:00 P.M.
Thursday, June 14 | 11:00 A.M.–2:00 P.M.

Teams of water operators from across North America compete by drilling into ductile iron pipe and installing taps in the shortest period of time.

METER MADNESS

Tuesday, June 12 | 12:30–2:30 P.M.

The ever-popular mesmerizing competition during which contestants reassemble working water meters from buckets of parts—with a few odd nuts and bolts in the mix—in the shortest amount of time.

HYDRANT HYSTERIA

Wednesday, June 13 | 11:30 A.M.–5:00 P.M.
Thursday, June 14 | 10:45 A.M.–1:00 P.M.

The newest, fast paced, head-to-head two-person competition to see how quickly a team can assemble a fire hydrant. Winning teams from Section-Level Hydrant Hysteria Competitions join their peers to compete at ACE.

WORLD WATER CUP OF DRILLING & TAPPING

Tuesday, June 12 | 10:00 A.M.–1:00 P.M.
Discover the highest tier of the annual Tapping Contest, where British, Dutch, and North American champions compete using the methodologies from around the world.



WATER TASTE TEST COMPETITIONS

Who has the best-tasting water in North America? AWWA Section taste test winners will compete to be named "People's Choice" and "Best of the Best" tap water.

Wednesday, June 13
10:30 A.M.–12:30 P.M.
"People's Choice" Taste Test
Wednesday, June 13 | 3:30 P.M.
Official "Best of the Best" Tap Water Taste Test

ACE18 EXHIBIT HALL

EDUCATION ON THE SHOW FLOOR, SERVICES, AND NETWORKING EVENTS

Expo Café
11:00 A.M.–2:00 P.M.
Full-conference attendees receive two complimentary lunch tickets for use in the Expo Café on Tuesday, Wednesday, or Thursday.

Innovation Lounge
Open during Exhibit Hall Hours
The Innovation Lounge will feature a pool of emerging water technologies and innovation clusters, offering new approaches and solutions for our industry.

International Resource Center
Open during Exhibit Hall hours
International attendees are encouraged to take advantage of the many resources available.

TUESDAY, JUNE 12

Exhibit Hall Grand Opening
10:00 A.M.–noon
Join us immediately following the Opening General Session for dedicated time with exhibitors. You'll find the suppliers you need with more than 450 exhibiting companies.

Diversify Your Network Coffee
10:00–11:00 A.M.

Roundtable Solutions Sessions
11:00 A.M.–5:00 P.M.

Women In Water Meetup
11:30 A.M.–1:30 P.M.

Innovation Lounge No Water, No Beer Happy Hour,
Sponsored by Brown and Caldwell
4:00–5:00 P.M.

WEDNESDAY, JUNE 13

Poster Sessions
1:30–4:30 P.M.
PST02 | Fresh Ideas Posters

Roundtable Solution Sessions
10:00 A.M.–1:00 P.M.

Innovation Lounge Isle Utilities Tech Pitch Competition,
Sponsored by Mueller Water Productions
1:00–3:00 P.M.

Career Center Job & Education Fair
2:00–5:30 P.M.
Network with top companies at Booth #22144. This year, the Fair will include educational booths offering information about advancing your career in the water industry. Also, professional headshots are available from the Water Equation with a recommended $5 donation. Don't forget your resume!

Wednesday Networking Happy Hour
4:30–6:00 P.M.

THURSDAY, JUNE 14

Expo Networking Event
12:30–2:00 P.M.





ACE18 EXHIBITORS

As of 3/26/18. For a complete listing of companies—including a short description, website, social media, and product and services categories—visit **bit.ly/ace18exhibithall** or view the mobile app (available in May).

Company Name	Booth No
2LBIN	22125
A.R.I. USA, Inc.	20052
A.Y. McDonald Mfg Co.	22023
AA Thread	21098
ABB	11101
Abloy Security	23001
Accurate Corrosion Control, Inc.	28046
ACE19 Onsite Space Assignment	14144
Aclara	23091
Active Water Solutions, LLC	25097
Adaptor, Inc.	20092
AdEdge Water Technologies, LLC	25108
Advance Products & Systems, Inc.	25067
Advanced Valve Technologies	22001
Aegion Corporation	22059
AkzoNobel - International Paint	20010
All Service Contracting Corp.	26028
Allchem Performance Products	17131
Alliance for PE Pipe	12101
AM Conservation Group	20000
AMERICAN	22030
American AVK Company	22073
American Structures, Inc.	25105
American Water Resources	30060
American Water Transmission Group	19005
Analytical Technology, Inc.	22131
Anderson Metals Corp., Inc.	29025
Anthrafilter (U.S.) Inc.	19053
Apera Instruments, LLC	15119
Aqua Smart, Inc.	24055
Aqua-Aerobic Systems, Inc.	24059
Aquam Pipe Diagnostics	13091
Aqua-Pipe/Sanexen Water Inc.	25053
Aqueous Vets	28020
Armorcast Products Company	22056
ASA Analytics	17029
Asahi/America, Inc.	27059
Association of Boards of Certification	9109
Atlanta Rod & Mfg. Co. Inc.	21002
Aunspach Controls Company, Inc.	11108

Company Name	Booth No
AWC Water Solutions	12130
AWI (Anthratech Western Inc.)	26023
AWWA Best of the Best	24115
AWWA Career Center Job and Education Fair	22144
AWWA Exhibit Hall Classroom	23139
AWWA Exhibitor Lounge	14145
AWWA International Resource Center	30011
AWWA Meter Madness & Hydrant Hysteria	8125
AWWA Pipe Tapping & World Water Cup	12136
AWWA Poster Sessions	26067
Babcock Laboratories, Inc.	15093
Badger Meter	18029
Baker Water Systems - Monitor Division	13131
Balmoral Tanks	16131
BECK, Harold & Sons Inc.	12131
Bentley Systems	26041
Bingham & Taylor Corporation	19083
BioSafe Systems	12114
Blacoh Surge Control	19101
Blue Earth Labs D.B.A. Blue Earth Products	30010
Blue I USA	28047
Blue-White Industries	17101
Building Crafts, Inc.	14099
Burkert Fluid Control Systems	17121
Cabot Norit Activated Carbon	23077
Caldwell Tanks, Inc.	22058
Calgon Carbon Corporation	21017
Cambridge Brass	19001
CA-NV Section AWWA	11097
Carbon Enterprises Inc. - CEI	21071
Carus Corporation	19011
Carylon Water Group	12137
Cascade Waterworks Mfg. Co.	23098
CB&I	21067
CCI Pipeline Systems	23005
CEI Carbon Enterprises Inc.	21071
Charles P. Crowley Company	15092
Charter Plastics, Inc.	13109

Company Name	Booth No
Chemco Systems	29032
Chemtrac, Inc.	23083
Christy's	16120
CIQADA	14111
Cityworks	27031
Cla-Val	23067
Clevest	27047
Continental Industries	12094
Continental Utility Solutions, Inc.	21052
Copperhead Industries, LLC	14126
Copperleaf	27045
Cosmo I&D	21119
Crispin Valve	20083
CSI Services, Inc.	14121
CST Industries, Inc.	21023
CyberLock, Inc.	28011
Deep Trekker Inc.	20131
Delta Cooling Towers, Inc.	20053
Denso North America	25048
DEZURIK/APCO/HILTON	23059
DFW Plastics, Inc.	21100
DHI Water & Environment	27019
Diamond Plastics Corporation	24005
Diehl Meeting	29031
Dive/Corr, Inc.	15104
Diversified Technology Corp.	21000
DN Tanks	23023
DNV - GL	26006
Droycon Bioconcepts, Inc.	20102
Dude Solutions	11093
EarthTec	20099
EBAA Iron, Inc.	18007
e-Builder	27057
Echologics	17017
EJ	21090
Electro Scan Inc.	21113
Electrolytic Technologies LLC	24029
Elster AMCO Water, LLC	20009
Embassy Group Ltd.	13137
Emerging Compounds Treatment Technologies, Inc.	11095

Company Name	Booth No
Emerson	23114
Engineering Ministries International	10113
Environmental Science & Engineering	21081
e-Pipe, Ace DuraFlo	26090
Esri	26031
Eurofins Eaton Analytical, Inc.	26011
Everbridge	12118
Evoqua Water Technologies	20031
Exact Pipe Tools, Inc.	26005
Fab-Seal Industrial Liners, Inc.	12109
Fab-Tech, Inc.	24001
Farwest Corrosion Control Company	27010
Federal Screen Products Inc.	23120
Fiber Technology	23004
Filtralite/Sapphire Water	19079
Fisher Research Laboratory	23029
FKC Co., LTD	15120
Flomatic Corporation	22052
Flomotion Systems, Inc.	17126
Fluid Conservation	21011
Fluid Imaging Technologies, Inc.	21079
FluksAqua	14124
Force Flow	22055
Ford Meter Box Company, Inc.	22067
Foundation Instruments, Inc.	11091
Fracta, Inc.	28058
Freewave Technologies	28027
GENEQ INC.	28044
GF Piping Systems	21101
GF Urecon	24025
Gicon Engineered Pumps	21004
Golden Meters Service Inc.	15098
Guterman, Inc.	24109
Hach	21041
HammerHead Trenchless Equipment	25083
HANNA Instruments	20104
HARCO Fittings	17091
Harper & Associates Engineering, Inc.	12116
Harris Computer - inHANCE Division	29048
Haycarb USA, Inc.	12090
HCB Battery Co., Ltd	20003
HF Scientific - A WATTS Brand	23016
Hidrogeron North America	23136

Company Name	Booth No
Hobas Pipe USA	24028
HomeServe USA	24040
Honeywell Process Solutions	20009
Honeywell Smart Energy	20009
Hopkins Technical Products, Inc.	16105
Hubbell Power Systems	26017
Hungerford & Terry Inc.	23109
Hydra-Stop	24075
HydraTech Engineered Products	17104
Hydro Gate	17017
Hydro-Guard	17017
Hydromax USA	27011
HYMAX by Krausz USA, Inc.	17125
IAPMO R&T	29040
ICONICS	25050
ICS, Blount, Inc.	10131
Inductive Automation	18136
Induron Coatings, LLC	23081
Industrial Test Systems, Inc.	17100
Innovation Lounge powered by Isle Utilities	21108
Innovyze	26032
Integrity Fusion Products, Inc.	14103
Integrity Municipal Systems	28016
International Flow Technologies	22125
IONOMR Innovation, Inc.	14123
Iorex	19105
Isle Utilities	21108
ISOLUX	30040
Itron, Inc.	22090
iWater, Inc	17115
J&S Valve, Inc.	28005
Jacobi Carbons Inc	20076
JCM Industries Inc.	23041
JCS Industries, Inc.	24016
JM Eagle	18091
Jones	17017
Juniper Systems, Inc.	28052
Kamstrup Water Metering	16117
Kantex Industries, Inc.	15132
Kare Weiss Technologies GmbH	23125
Kasco Marine	21137
Keller America Inc.	14109
Kleen Industrial Services Inc.	19098
Komax Systems, Inc.	20073
Korea Water Partnership	12115
Kubota Corporation	14093
Kupferle	18053
kwik-ZIP Spacers	19103

Company Name	Booth No
LaMotte	11124
Landmark Structures	24051
Layfield Environmental Containmet	17098
Layne Christensen Company	23071
LG Sonic	20132
Lhoist	19133
Lonza Water Treatment	24022
Loprest Water Company	28053
Lovibond Tintometer	20072
Lowell Corporation	24023
Lucity, Inc.	27021
LuminUltra Technologies Ltd.	28041
M.E. Simpson Co., Inc.	18103
MacLean Highline Products	25078
Magnolia River	19132
Malvern Panalytical	17096
Mantech	10109
MARS Company	24017
Master Meter, Inc.	22080
MATCHPOINT Water Asset Management, Inc.	27053
Matco-Norca	25000
Mazzei Injector Company, LLC	22024
McGard LLC	23044
McWane, Inc.	23033
Medora Corp. (SolarBee & GridBee)	25023
Membrane Solutions	11127
MentorAPM	26082
Mercer Rubber Company	25077
Metal & Cable Corp. Inc.	29011
Metron - Farnier	22109
Meurer Research, Inc.	16109
Milliken	17017
Mission Communications	25071
Mitsubishi Chemical Infrate CO. Ltd.	28059
MTA Messtechnik	23000
Mueller Co.	17017
Mueller Systems	17017
Mueller Water Products, Inc.	17017
Municipal Sewer & Water (MSW) Magazine	28031
Myron L Company	20067
Nalco Water	24082
NAPAC Inc.	20006
National Pump Company	21070
National Rural Water Association	28029

Company Name	Booth No
National Wash Authority, LLC	12120
Neptune Technology Group Inc.	17043
NEXGEN Asset Management	14131
Nicor Inc.	24108
Ningbo Aimei Meter Manufacture CO. , Ltd	13121
Ningbo BORO Industries Co., Ltd	28006
Noash Construction, Inc.	20004
Nobel Systems, Inc.	28045
NO-DES, Inc.	8109
Noreva GmbH	14101
North American Pipe Corporation	20077
Northtown Company	18099
Northwest Pipe Company	20071
NSF International	22049
OCV Control Valves	21005
Olameter	18096
Oldcastle Enclosure Solutions	26059
Olin Chlor Alkali Products	15109
OmniCel Batteries	28048
Orenco Systems, Inc.	30017
Orenco Controls	30017
OSTI, Inc.	23133
Ovivo USA, LLC	24067
Oxbow Activated Carbon	16112
Pacific Tek, Inc.	18131
Parker Hannifin Corporation	25101
PAX Water Technologies, Inc. a UGSI Solutions Company	28021
Permastore	25074
Petroleum Solids Control	20103
Phoenix Contact	11109
PinnacleART	19131
Pitney Bowes	12111
Pittsburg Tank & Tower Maintenance Co., Inc.	15108
Plas-Tanks Industries, Inc.	18130
Plast-O-Matic Valves, Inc.	25061
Pollardwater	9131
Poly Processing Company	23113
PowerSeal Pipeline Products Corp.	21049
PPG Protective and Marine Coatings	21083
PPI America Inc.	12124
PQ Corporation	29021
Prabhat Industries, LLC	15116
Pratt	17017

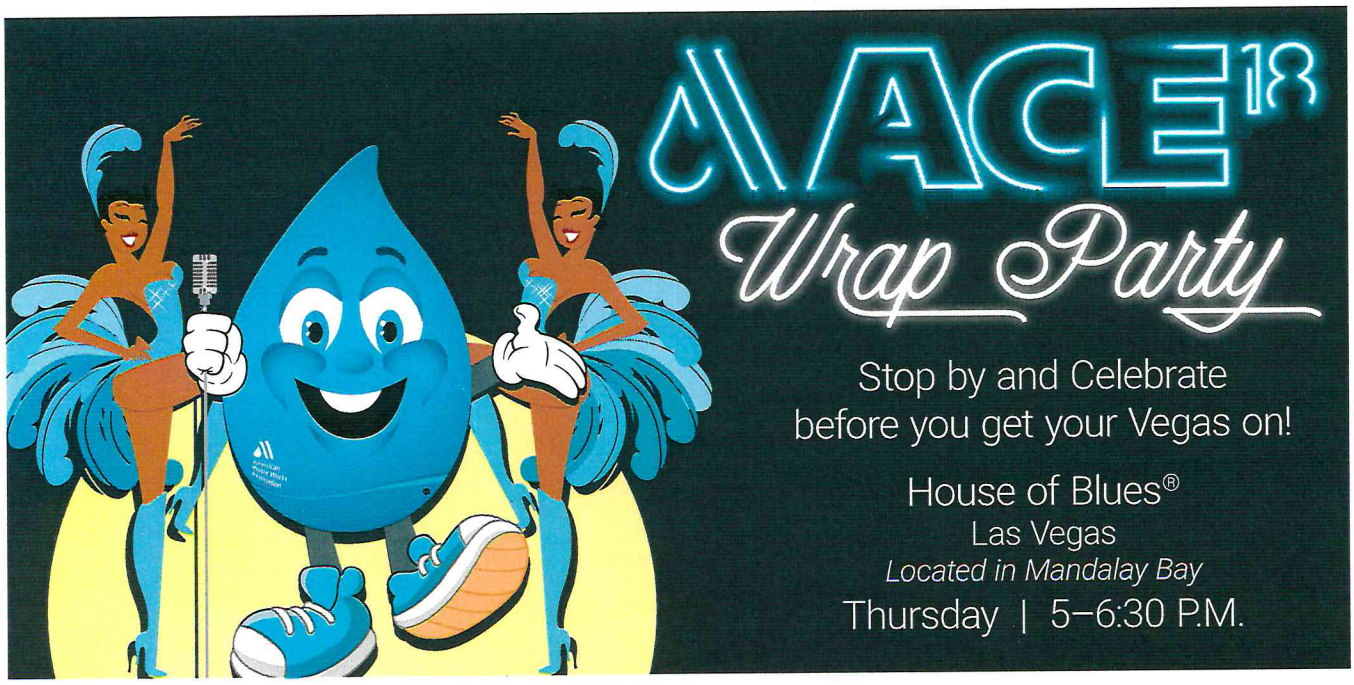
Company Name	Booth No
Preload LLC	21053
Premier Silica	24078
Primus Line	23118
Process Solutions, Inc. a UGSI Solutions Company	28017
Proco Products, Inc.	27041
ProMinent Fluid Controls, Inc.	22103
PRUFTECHNIK	13119
PULSCO, Inc.	16127
Pulsed Hydraulics, Inc.	22118
Pure Technologies a Xylem Brand	19029
Pureflow Filtration Division	29041
Purolite Corporation	12092
PYI Inc.	20100
Q-VAC Priming Systems	17109
Ransom International, LLC	23003
Raven Lining Systems	22002
RDP Technologies, Inc.	19057
Real Tech Inc.	23117
Red Flint Sand & Gravel, LLC	24018
Red Valve Company and Tideflew Technologies	26076
Reed Manufacturing Company	25026
REHAU Construction LLC	28022
RePipe 4710, Inc.	12096
ResinTech, Inc.	24048
REXA	25052
Ride With Purpose Association (aka The Water Buffalos)	15114
RIVENTA Inc	18132
Robar Industries Ltd.	20105
Roberts Filter Group	17005
Romac Industries Inc.	24041
Roscoe Moss Company	24049
Rosedale Products, Inc.	17090
Ross Valve Mfg. Company	25011
RouteSmart Technologies, Inc.	26030
RPS Industries	24072
Russell Corrosion Consultants, LLC	15130
RW Gate Company	25011
S&B Technical Products	25059
s::can Measuring Systems, LLC	21125
Saf-T-Flo Chemical Injection	22099
Sand Express	16116
Schneider Electric	17130
Schonstedt Instrument Company	9132
SebakMT	12091

Company Name	Booth No
Sedura (IDModeling)	28040
SEEPEX, Inc.	26055
SEH Design-Build	9108
Sekisui SPR Americas, LLC	24070
Sensus a Xylem Brand	19043
Sewerin (Hermann Sewerin GmbH)	15125
Shangdong Hua'an Machinery Co. , Ltd	21001
Shijiazhuang Qinye Casting Co., Ltd	27007
Shimadzu Scientific Instruments, Inc.	21085
Siemens Industry, Inc.	18090
Sigelock Systems, LLC	26070
SIGMA Corporation	22009
Silcarbon Activated Carbon LLC	20130
Silversmith Inc.	14097
Singer Valve, Inc.	17017
SIP Industries-Serampore	25041
Skywave Antennas, Inc.	29010
Smart Energy Water	25095
Smith-Blair a Xlem brand	17053
SonicSolutions Algae Control	25054
Spatial Wave, Inc.	19130
Specific Energy	14130
Specification Rubber Products	13090
Specified Fittings, LLC	20095
SPX Radiodetection	15121
Star Pipe Products Inc.	23053
Starboard Consulting	9110
Strongbridge International Inc.	12097
STRUCTURAL TECHNOLOGIES	25005
SubSurface Instruments	29026
SubSurface Leak Detection Inc.	23040
Suiken Co., Ltd.	27025
Sulzer Pumps Solutions, Inc.	14125
Superior Tank Co, Inc.	24027
Support Our Veterans	11110
SW Services LLC	20090
Swan Analytical USA	25047
Syrinix Inc	24044
Taisei Kiko Co., Ltd.	28054
Tank Connection	21131
Tank Industry Consultants	17011
Tap Master, Inc.	26102
Tarsco Bolted Tank	26058

Company Name	Booth No
Tatsoft LLC	17102
Team Industrial Services	28033
Technolog Limited	29017
Tesco Controls, Inc.	13108
Tetra Tech	21077
TGO Technologies, Inc.	27017
The Distribution Group (TDG)	15131
The Hose Monster Company	10108
The Rangline Group	24000
The Water Research Foundation	21109
Thompson Pip Group	22006
TIANJIN GALAXY VALVE CO., LTD	21003
TIGG, LLC	20135
Tnemec	20027
Tomco2Systems	17097
Tonka Water, a U.S. Water Brand	24058
Total Piping Solutions, Inc.	25022
TREDS Rubber Footwear	16118
Trenton Corporation	12112
Trimble Water	26047
Tripac Marketing Inc.	22004
Trumbull Industries, Inc.	20091
TT Technologies, Inc.	20005
Tyler Technologies, Inc.	14118
U.S. EPA Office of Research and Development	22117
U.S. Pipe	20016

Company Name	Booth No
U.S. Pipe Valve & Hydrant	17017
U.S. Water	24058
UGSI Chemical Feed - a UGSI Solutions	29020
UL	22022
Ulliman Schutte Construction	14091
Ultraflote LLC	23127
Uni-Bell PVC Pipe Association	15113
US EPA Water Security Division	22121
US EPA's WaterSense Program	22115
US Saws	21130
USABlueBook	12125
USDA, Rural Utilities Service	22123
Utilis Inc.	14115
Utilty Services Associates, LLC	29061
UV Pure Technologies	24076
Val-Matic Valve & Mfg. Corp..	23011
Valvo Water Analytics	16090
Valve Tek Utility Service, Inc.	8111
Vanguard Utility Service, Inc.	21057
Verizon Enterprise Solutions	13113
Victaulic	23047
Vinyltech PVC Pipe	23131
Vita-D-Chlor Company	18108
VTScada by Trihedral	24083
Wachs Utility Products	23017
Water & Wastes Digest	16137

Company Name	Booth No
Water & Wastewater Equipment Manufacturers Assn.	25081
Water Efficiency Magazine	15122
Water Environment Federation	22070
Water For People	15110
Water Online	25091
Water Remediation Technology	28053
WaterSmart Software, Inc.	19077
WaterTalent, LLC	21121
WaterTrax	10111
WaterWorld/PennWell	21059
Watson-Marlow Fluid Technology Group	19052
Websoft Developers	16104
Werever Waterproof Cabinetry	26094
WesTech Engineering, Inc.	15124
Western Technology	20001
Westfall Manufacturing Company	23124
Wheeler-Rex	13139
Wigen Water Technologies	27022
Wunderlich-Malec Engineering	17136
Xlem	17033
Zebron	18092
Zenner USA	23101
Zurn Industries, LLC	23119



TUESDAY, JUNE 12

FIRST-TIME ATTENDEE PROGRAM

FREE to first-time attendees | 7:30 a.m. – 8:15 a.m.
Stop by to learn how to maximize your conference experiences and develop lasting connections. Registration is required.

KENNETH J. MILLER FOUNDERS' AWARD LUNCHEON

Tickets are $65 |11:45 a.m. – 1:15 p.m.
Mandalay Bay Convention Center – South Seas Ballroom F

Water For People is dedicated to the Everyone Forever model by providing every family, clinic and school access to safe water in the districts where we work. We could not accomplish this without the support, enthusiasm and continued dedication of our partners in the water and wastewater communities. Please join us in honoring the outstanding champions whose hard work and incredible generosity keep our mission moving forward.

This event is open to the general public.

WATER FOR PEOPLE BASH

Tickets are $50 at the door and $40 in advance
House of Blues Las Vegas (inside Mandalay Bay) – Crossroads Room

Please join us as we kick off ACE18 with a fun night of music, food and drinks in honor of a great organization! Water For People envisions a world where every person has access to reliable and safe drinking water and sanitation. We have an exciting evening lined up for you—a true celebration of Water For People with great food, music, dancing and networking.

This event is open to the general public. **Learn more**

DON'T TELL COMEDY CLUB

5:15 - 8:00 p.m. | Tickets are $10
Las Vegas, NV

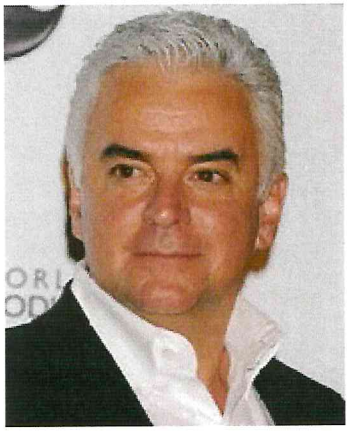
ACE we will be hosting a Don't Tell Comedy event, with proceeds going to Water Equation. Must be registered for ACE in order to attend.

For more details on the event and to **purchase tickets**.

WEDNESDAY, JUNE 13

WATER INDUSTRY LUNCHEON

noon. - 1:15 p.m. | Featuring John O'Hurley
Need to reserve a table? **Download the form**



Award-winning actor John O'Hurley has catapulted into one of Hollywood's most versatile stars, with accomplishments ranging from Broadway star to game show host to New York Times bestselling author. O'Hurley is best known as "J. Peterman" on Seinfeld, which is now the No. 1 syndicated show in the world. John won a Screen Actors Guild Award for his work on Seinfeld and went on to earn multiple advertising and marketing industry awards when he helped finance the relaunch of The J. Peterman Company. His versatility as both an entertainer and businessman continues to be the focus of many features in magazines such as Business Week and Time Magazine.

As one of the most recognizable voices in entertainment, his is the voice of many animated characters, such as King Neptune, SpongeBob SquarePants and the Mayor of Disney's hit Phineas and Ferb. He is best known for his performances as King Arthur in Monty Python's Spamalot and his portrayal of slick lawyer Billy Flynn in the legendary Broadway production of Chicago. O'Hurley has been the regular host of NBC Sports "The National Dog Show presented by Purina." A self-taught pianist and classically trained vocalist, both of his albums "Secrets From The Lake" and "Peace Of Our Minds" have reached the Billboard charts.

In 2012, he was awarded the Ellis Island Medal of Honor in recognition of his accomplishments in the Arts and Philanthropy.

THURSDAY, JUNE 14

FULLER AWARD BREAKFAST

7:30 - 9:00 a.m.
AWWA annually presents George Warren Fuller Awards to the AWWA Sections' selected members for their distinguished service to the water supply field in commemoration of the sound engineering skill, the brilliant diplomatic talent, and the constructive leadership that characterized the life of George Warren Fuller. Two complimentary tickets are available for Fuller Awardees and their guests only. Tickets are for purchase for everyone else.

AAEES/AWWA LUNCHEON PRESENTATION

11:30 a.m. - 1:00 p.m.
Mandalay Bay Convention Center – Palm D

This annual luncheon celebrates the partnership among AWWA, and the **American Academy of Environmental Engineers and Scientists (AAEES)**. This year's speaker will be Mr. David Rexing, the Manager of Water Quality Research and Development for the Southern Nevada Water Authority (SNWA). Mr. Rexing has almost 50 years of experience in water quality analysis, bench and pilot plant testing, and water treatment process optimization. He has served on numerous AWWA committees, divisions, and councils and currently serves on the Water Utility Council and the Board of Directors of the California-Nevada Section. With the AWWA Research Foundation, he has served on the Research Advisory Council and various Project Advisory Committees.

MINUTES OF MEETING OF THE FINANCE COMMITTEE OF THE PALMDALE WATER DISTRICT, FEBRUARY 26, 2018:

A meeting of the Finance Committee of the Palmdale Water District was held Monday, February 26, 2018, at 2029 East Avenue Q, Palmdale, California, in the Board Room of the District office. Chair Henriquez called the meeting to order at 4:35 p.m.

1) Roll Call.

Attendance:	**Others Present:**
Finance Committee:	Dennis LaMoreaux, General Manager
Marco Henriquez, Chair	Mike Williams, Finance Manager
Robert Alvarado, Committee Member	Judy Shay, Public Affairs Director
	Dennis Hoffmeyer, Accounting Supervisor
	Bob Egan, Financial Advisor
	Dawn Deans, Executive Assistant
	0 members of the public

2) Adoption of Agenda.

It was moved by Committee Member Alvarado, seconded by Chair Henriquez, and unanimously carried by all members of the Committee present at the meeting to adopt the agenda, as written.

3) Public Comments on Non-Agenda Items.

There were no public comments on non-agenda items.

4) Action Items:

4.1) Consideration and Possible Action on Approval of Minutes of Meeting Held January 22, 2018.

It was moved by Committee Member Alvarado, seconded by Chair Henriquez, and unanimously carried by all members of the Committee present at the meeting to approve the minutes of the Finance Committee meeting held January 22, 2018, as written.

4.2) Discussion and Overview of Cash Flow Statement and Current Cash Balances as of December, 2017. (Financial Advisor Egan)

Debt reporting requirements were discussed after which Financial Advisor Egan reviewed the investment funds report as of December 2017, including assessments received, maturing CDs, RDA pass-through funds, and capital improvement fees received and then provided an overview of the cash flow statement, including assessments, RDA pass-through funds, capital improvement fees, Department of Water Resources refunds, carry-over amounts, and the final 2017 year-end balance followed by discussion of potential drought conditions and revenue.

4.3) Discussion and Overview of Financial Statements, Revenue, and Expense and Departmental Budget Reports for December 2017. (Finance Manager Williams)

Finance Manager Williams reviewed in detail the balance sheet, profit and loss statement, year-to-year comparisons, month-to-month comparisons, consumption comparisons, and revenue and expense analysis reports for the period ending December 2017 and stated that most departments are operating at or below the targeted expenditure percentage of 100%.

4.4) Discussion and Overview of Committed Contracts Issued. (Finance Manager Williams)

Finance Manager Williams provided an overview of the updated Contractual Commitments and Needs for 2017 Report for new and replacement capital projects, consulting and engineering support projects, new and replacement equipment, water quality fee funded projects, committed and projected capital expenditures, and available funding sources.

4.5) Consideration and Possible Action on Resolution No. 18-3 Being a Resolution of the Board of Directors of the Palmdale Water District Regarding its Intention to Issue Tax-Exempt Obligations for Various Capital Projects. (Finance Manager Williams)

Finance Manager Williams provided an overview of Resolution No. 18-3, and after a brief discussion of reimbursement to the District, it was moved by Committee Member Alvarado, seconded by Chair Henriquez, and unanimously carried by all members of the Committee present at the meeting that the Committee concurs with staff's recommendation to approve Resolution No. 18-3 being a Resolution of the Board of Directors of the Palmdale Water District Regarding its Intention to Issue Tax-Exempt

Obligations for Various Capital Projects and that this item be presented to the full Board for consideration at the February 28, 2018 Regular Board meeting.

5) Information Items.

5.1) Status of Debt Service Coverage. (Financial Advisor Egan)

Financial Advisor Egan stated that the Debt Service Coverage for the period of January 2017 through December 2017 is 1.47 and meets the required Debt Service Coverage followed by discussion of OPEB reporting.

5.2) Status of the Cost to Paint Exterior of the District's Office Building.

General Manager LaMoreaux stated that several proposals ranging from $15,000.00 to $20,000.00 have been received from local contractors for painting the exterior of the District's office building and are under review.

5.3) Other.

Finance Manager Williams provided information on payment transactions by type for January – December 2017 and reviewed the trend towards electronic forms of payment followed by discussion of adequate customer service staffing.

He then stated that the cost estimate for construction of the Littlerock Dam grade control structure is $5.4 - $6.5 million and that staff is reviewing financing options.

He then stated that the District's financial model is outdated, and options to update the model are being reviewed.

He then stated that a meeting was held with the state regarding financing options and their guidelines regarding OPEB obligations and that it may be beneficial to propose legislation to update the state's financing guidelines followed by discussion of representation of OPEB obligations in the District's audit.

He then stated that the auditors will begin their field work March 26 – 28, 2018 and that the GASBY 68 pension obligation will be calculated by the same firm as last year after which it was recommended that a letter be sent to The Pun Group regarding the cancellation of their auditing services for the District.

General Manager LaMoreaux stated that the Board will be discussing SB 623 at the next Regular Board Meeting and that if this bill passes, it will cost the District's customers $300,000.00 per year, which equals a 1.5% rate increase with no benefit to our customers.

There were no other information items.

6) Board Members' Requests for Future Agenda Items.

Committee Member Alvarado requested "Update on OPEB obligations" be included on the agenda for the next Finance Committee meeting.

There were no further requests for future agenda items.

It was then determined that the next Finance Committee meeting will be held March 26, 2018 at 4:30 p.m.

7) Adjournment.

There being no further business to come before the Finance Committee, the meeting was adjourned at 5:40 p.m.

Chair