



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



October 3, 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, OCTOBER 8, 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) Presentation on the status of the Upper Amargosa Recharge Project. (Chuck Heffernan, City of Palmdale, Director of Public Works)
- 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 September 25, 2018.
 - 6.2) Payment of bills for October 8, 2018.
 - 6.3) Approve absence of Director Dino from September 25, 2018 Regular Board Meeting due to District-related conference attendance. (General Counsel Dunn)
 - 6.4) Approve absence of Director Estes from September 25, 2018 Regular Board Meeting due to illness. (General Counsel Dunn)
- 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 appeal of determination on August 2018 water use and bill for account no. 45705057 – 1013842. (General Manager LaMoreaux)
 - 7.2) Consideration and possible action on authorizing a contract with Geo-Consultants of San Jose, California to conduct a program of sonar (electrotelluric) soundings to determine depth to bedrock and suitable water bearing aquifers for the Palmdale Regional Groundwater Recharge Project (\$48,500 – Non-Budgeted – Engineering/Grant Manager Riley)
 - 7.3) Consideration and possible action on rescheduling first Regular Board Meeting in November due to the Veteran’s Day Holiday. (No budget impact – General Manager LaMoreaux)
 - 7.4) Consideration and possible action on revision to Article 4.12 of the District’s Rules and Regulations to clarify the use of shirts or any items containing the District’s logo for campaign purposes tabled from September 10, 2018 Regular Board Meeting. (No Budget Impact – Director Alvarado/General Counsel Dunn)
 - 7.5) Discussion of Directors staying within their annual budgets. (Director Mac Laren)
 - 7.6) Discussion of the effect of unexcused absences on Director activities. (General Counsel Dunn)
 - 7.7) 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) A.W.W.A. Water Quality Technology Conference 2018 to be held November 11 – 15, 2018 in Toronto, Ontario, Canada.

- 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) Break prior to closed session.
- 10) Public comments on closed session agenda matters.
- 11) Closed session under:
 - 11.1) Conference with Legal Counsel – Existing Litigation: A closed session will be held, pursuant to Government Code §54956.9 (d)(1), to confer with Special Litigation Counsel regarding existing litigation to which the District is a party. The title of such litigation is as follows: *Antelope Valley Ground Water Cases*.
- 12) Public report of any action taken in closed session.
- 13) Board members' requests for future agenda items.
- 14) Adjournment.



DENNIS D. LaMOREAUX,
General Manager

DDL/dd

Upper Amargosa Creek Flood Control, Recharge, and Habitat Restoration Project City of Palmdale

Project Update October 2018
No. 1400080



Upper Amargosa Creek Flood Control, Recharge, and Habitat Restoration Project

Overview - Overall project has two construction elements:

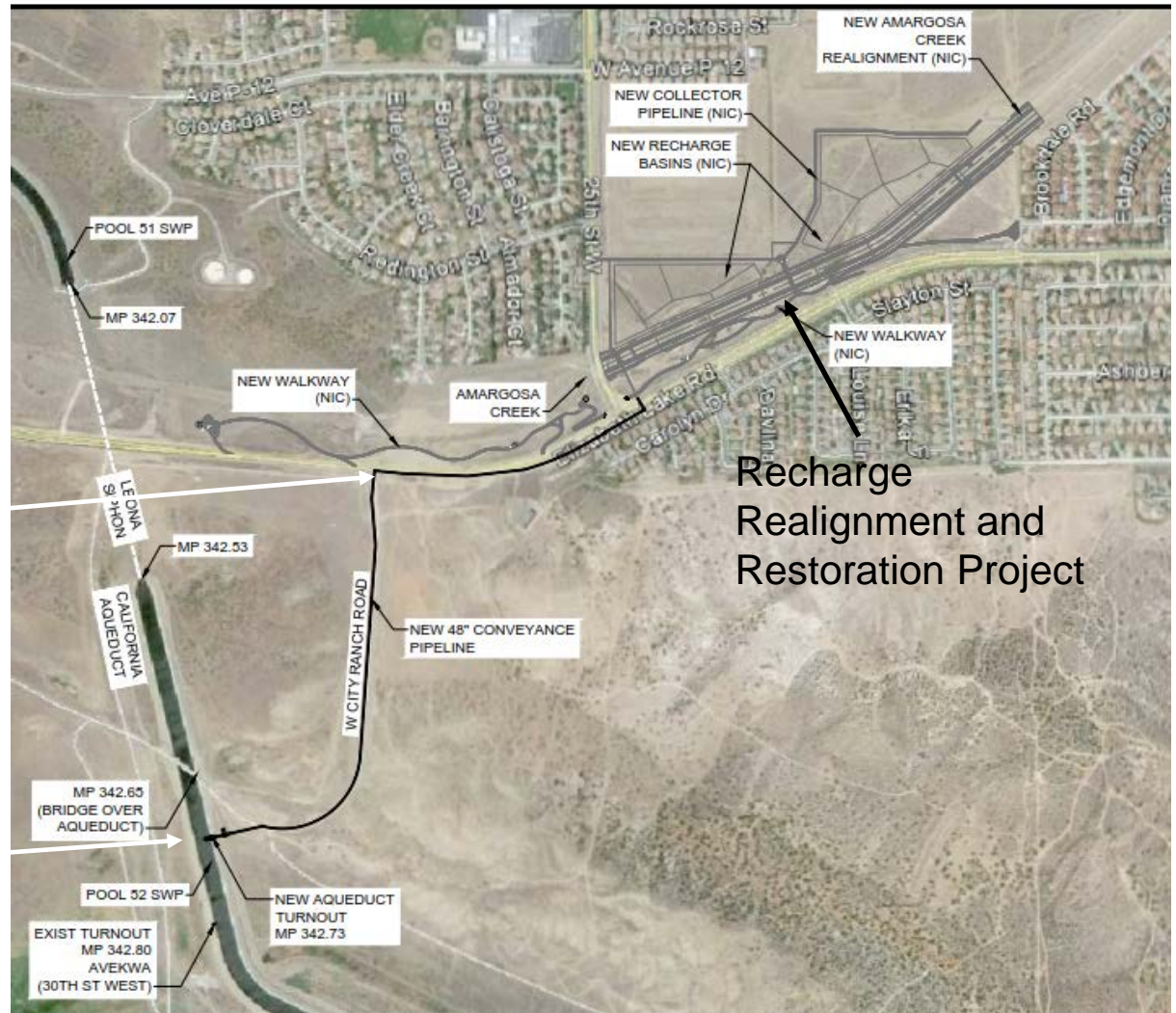
- **Project B – UAC Turnout and 48-Inch Conveyance Pipeline Project**
 - Structural Connection to the Aqueduct and
 - Pipeline to transfer water from the Aqueduct to the Recharge Basins
- **Project C – UAC Realignment, Recharge Basins and Restoration Project**
 - The recharge basins, creek realignment and restoration/park area.



Project B – Aqueduct Turnout Structure and Pipeline

48-Inch Conveyance Pipeline

Pool 52 Relocated Turnout Location



Recharge Realignment and Restoration Project

- Turnout located within Pool 52 per DWR

Project B – Aqueduct Turnout and Pipeline

Example of 48-Inch Conveyance Pipeline

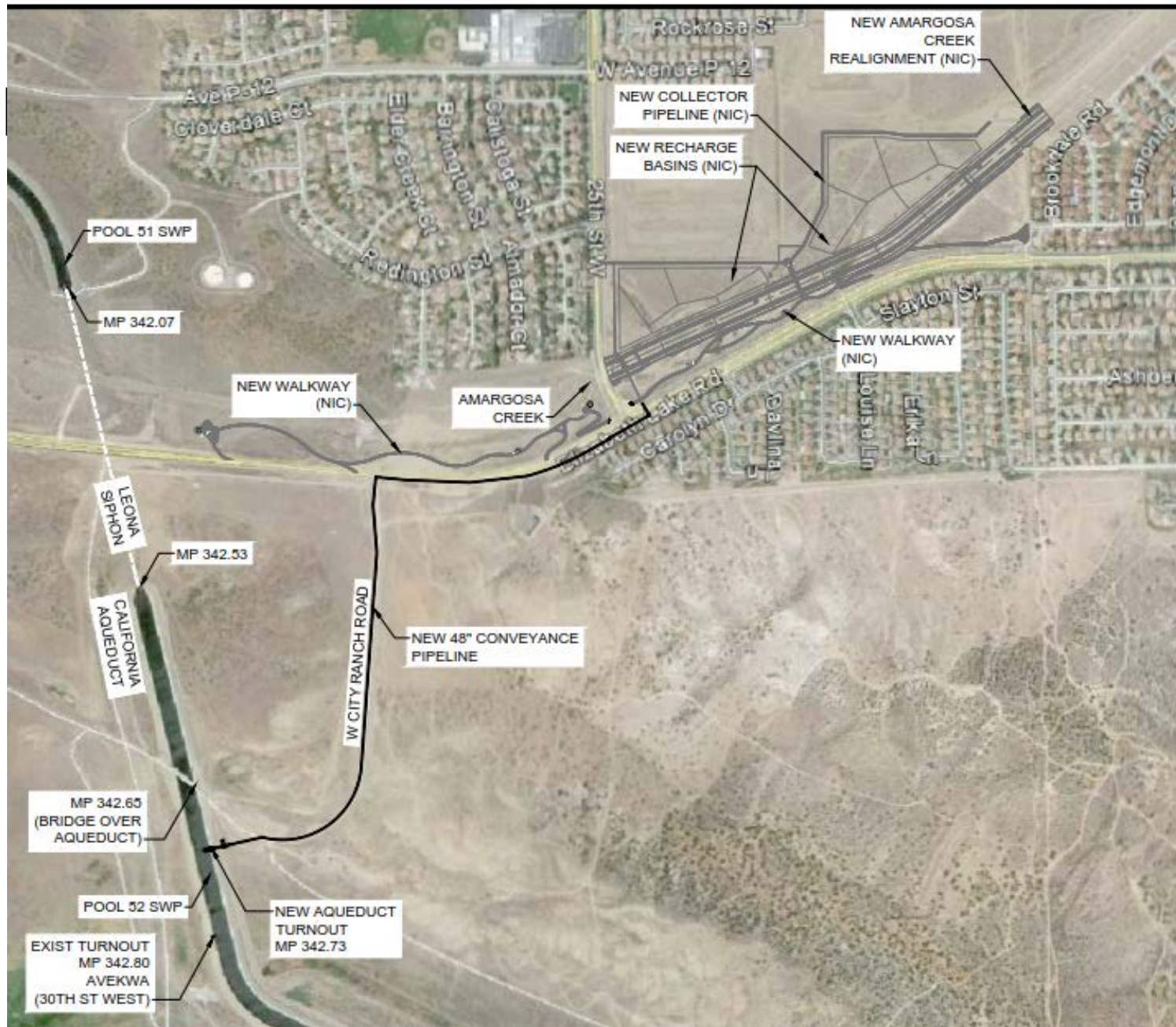
- Alignment – beginning at the DWR Pool 52 of the Aqueduct traversing down City Ranch Road, then east on Elizabeth Lake Road to the Recharge Ponds.



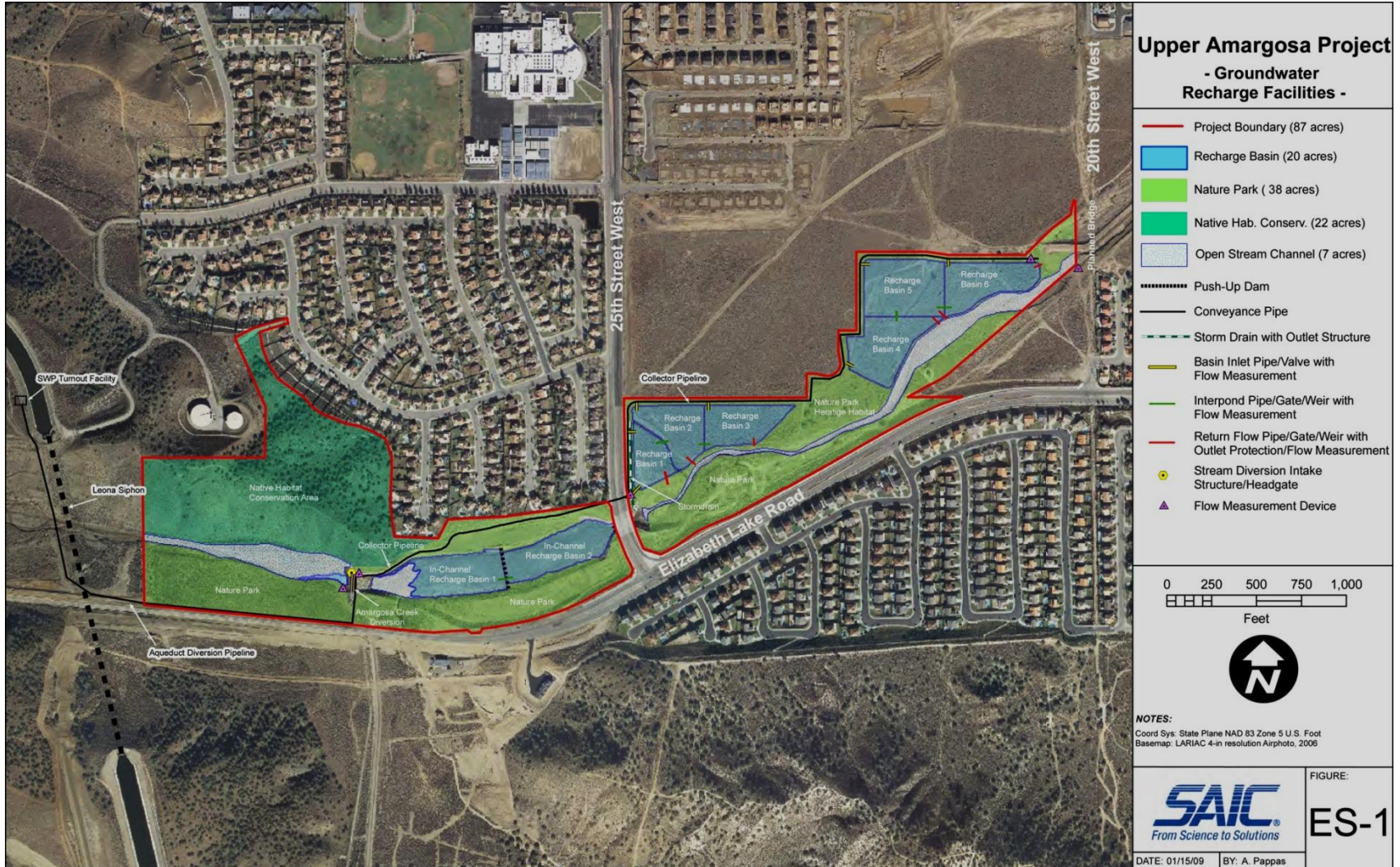
Project C – Realignment, Recharge Basins and Restoration Project

The recharge basins, creek re-alignment and park area. Conceptual Simulation





Proposed Improvements w/Future Buildout



Project Status October 2018

Projects

- August 07 2018 – City Council awarded Upper Amargosa Creek Turnout and Pipeline Project (PN 591-B) to Nicholas Construction, Inc. for the amount of \$6,036,500. The following is an estimate of anticipated expenditures for this project No. 591-B:

Description	Estimated Cost
PN 591-B Construction Contract	\$6,036,500
PN 591-B Contingency (15%)	\$909,525
Contract CM & Inspection	\$372,667
Labor Compliance	15,100
Legal Advertising	2,853
City Administration	\$100,000
Total	\$7,436,645

- On October 2, 2018, City Council will award the Upper Amargosa Creek Recharge, Realignment and Habitat Restoration Project (PN 591-C) in the amount of \$5,894,440, to Bowe Contractors, Inc.



Project Status October, 2018

The following is an estimate of anticipated expenditures for this Project No. 591-C :

<u>Description</u>	<u>Estimated Cost</u>
PN 591-B Total Construction Costs (awarded 8/2018)	\$7,436,645
PN 591-C Construction Contract	\$5,894,440
PN 591-C Contingency	\$114,185
PN 591-C Contract CM & Inspection	\$954,840
PN 591-C Labor Compliance	\$20,160
PN 591-C Legal Advertising	\$2,853
PN 591-C City Administration	\$25,000

Total Construction Costs	\$14,448,123
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Project Schedule 2018

- **Project B – UAC Aqueduct Turnout and 48-Inch Conveyance Pipeline Project**
- Pre-construction meeting was on September 25th, 2018.
- RFIs and cofferdam plans were submitted to AECOM (CM) and DWR and were approved.
- October 15, 2018 – Mobilization
- November 15, 2018, install the cofferdam; Start construction.



Project Schedule 2018

Project C – UAC Realignment, Recharge Basins and Restoration Project

- October 2nd, 2018- Award by City Council.
- *Possible pre-Construction meeting week of October 15th.
- *Bowe submittals to PSOMAS (CM).
- *Compliance with EIR.

* These dates are tentative.



Project Schedule 2018

- Critical Dates for Project B – Turnout and pipeline
 - 78 calendar days (50 working days) allotted for “aqueduct turnout construction” within the canal from November 15, 2018 to January 31, 2019.
- Critical Dates for Project C – Recharge, Flood Control
 - November 1, 2018 to March 1 2019. CDFW considers this period the Wet Season. In accordance with permit requirements, construction can proceed in creek areas when no surface water is present.



Project Costs

- Estimated Total Cost of the project is \$17,000,000. Contributions are;
- \$6,500,000 from Prop 1E
- \$5,000,000 from AVEK, L.A. County Waterworks, and PWD
- City of Palmdale has contributed approximately \$3,898,000 to date



Project Costs (cont.)

- AVEK has contributed \$276,938 to date.
- PWD has contributed \$138,469 to date.
- Waterworks has contributed \$138,469 to date.
- City of Palmdale has contributed \$898,000 for design and approx. \$3,000,000 towards environmental, wages, 5 monitoring wells, property acquisitions, studies, etc.



Project Costs (cont.)

- Current construction cost estimate is \$12,954,650*
- Total Project Cost Estimate \$17,000,000
- 72% of costs is for recharge facilities
- 16% of costs is for flood control
- 12% of costs is for habitat restoration

*Bids from Nicholas and Bowe with contingencies.



**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: October 1, 2018 **October 8, 2018**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Mr. Dennis D. LaMoreaux, General Manager
RE: *AGENDA ITEM NO. 6.3 – APPROVE ABSENCE OF DIRECTOR DINO FROM SEPTEMBER 25, 2018 REGULAR BOARD MEETING DUE TO DISTRICT-RELATED CONFERENCE ATTENDANCE. (GENERAL COUNSEL DUNN)*

Director Dino was absent from the September 25, 2018 Regular Board Meeting. Agenda Item No. 6.3 has been placed on the Consent Calendar to excuse this absence pursuant to Section 4.07.2 of the District’s Rules and Regulations which states, “The Board shall excuse absences by approving such absences pursuant to the Consent Calendar at the next regular Board meeting.”

**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: October 1, 2018 **October 8, 2018**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 6.4 – APPROVE ABSENCE OF DIRECTOR ESTES
FROM SEPTEMBER 25, 2018 REGULAR BOARD MEETING DUE TO
ILLNESS. (GENERAL COUNSEL DUNN)***

Director Estes was absent from the September 25, 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 align="center">P A L M D A L E W A T E R D I S T R I C T</p> <p align="center">B O A R D M E M O R A N D U M</p>

DATE:	October 1, 2018	October 8, 2018
TO:	BOARD OF DIRECTORS	Board Meeting
FROM:	Mr. Dennis D. LaMoreaux, General Manager	
RE:	<i>AGENDA ITEM NO. 7.1 – CONSIDERATION AND POSSIBLE ACTION ON APPEAL OF DETERMINATION ON AUGUST 2018 WATER USE AND BILL FOR ACCOUNT NO. 45705057 - 1013842</i>	

Recommendation:

Staff recommends the denial of the appeal.

Impact of Taking No Action:

The September 19, 2018 Determination that upheld the validity of the water meter reads and bill calculations will stand. Staff has made a payment plan for Mr. and Mrs. Sykes for the \$575.50 August 2018 water bill and has offered to do the same for the \$223.94 September 2018 water bill. This payment plan(s) will be honored.

Background:

Finance Department staff requested a reread on the above-referenced account on August 9, 2018 after noticing an unusually high amount of usage from the regular read on August 7, 2018. The meter read was confirmed and the account’s bill was processed. The Tier 1 and Tier 2 total allocation for the billing period was 34.48 units. The usage was 119 units. This caused a bill amount of \$575.50. Additionally, a voicemail message was left for the customer on August 15, 2018 advising them of the unusually high amount of water use.

Customer Care staff worked with the customer at the property on August 21, 23, and 30. These field visits looked for leaks, gave water use advice, and checked the accuracy of the water meter. The calibration test showed the water meter was performing within industry standards.

Customer Care staff also downloaded the water use information saved by the electronic equipment connected to the water meter. This data shows the amount of water use on an hourly basis for over thirty (30) days. The information was available from July 20, 2018 through August 29, 2018. It showed a pattern of high water use to August 18, 2018. The pattern changed on that day to substantially less water use. This is shortly after the voicemail message regarding high water use was left for the customer.

Summary:

A letter from the customer was received on August 23, 2018 protesting the \$575.50 water bill and stating there had been no changes to water use patterns. I reviewed the situation and issued a letter with the details of the review on September 19, 2018. The review included all the water meter reads taken throughout July, August, and September, office and Field Customer Care notes, the account's water use history, and the hourly water use information. It showed the water meter was working properly, all calculations were completed correctly, and there was a change in water use after the customer was notified of unusually high amount of water use.

The unusually high amount of water registered through the water meter could be from several causes. The field visits showed it was not a leak or a malfunctioning water meter. It appears to be due to landscape watering. The account's history shows a pattern of using more water than allocated, though not as high as the bill in question. The Determination also offers a water use audit to assist the customer and help bring the water use closer to its allocation.

Strategic Plan Element:

This is part of Strategic Initiative 6, Customer Care and Advocacy.

Budget:

No substantial effect.

Supporting Documents:

- Mr. Sykes letter dated September 27, 2018 requesting a Board hearing;
- District Determination letter dated September 19, 2018 and following attachments:

The Sykes' letter dated August 23, 2018

“Customer Account Summary” Table

“Summary of Hourly Data from Water Meter – 2018” Table

Section 8.04 H – Disputed Bills from the Palmdale Water District Rules and Regulations

**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: October 1, 2018 **October 8, 2018**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Mr. James A. Riley, Engineering/Grant Manager
VIA: Mr. Dennis D. LaMoreaux, General Manager
Mr. Adam Ly, Assistant General Manager
RE: ***AGENDA ITEM NO. 7.2 – CONSIDERATION AND POSSIBLE ACTION ON AUTHORIZING A CONTRACT WITH GEO-CONSULTANTS OF SAN JOSE, CALIFORNIA TO CONDUCT A PROGRAM OF SONAR (ELECTROTELLURIC) SOUNDINGS TO DETERMINE DEPTH TO BEDROCK AND SUITABLE WATER BEARING AQUIFERS FOR THE PALMDALE REGIONAL GROUNDWATER RECHARGE AND RECOVERY PROJECT (\$48,500 – NON-BUDGETED – ENGINEERING/GRANT MANAGER RILEY)***

Recommendation:

Staff recommends that the Board:

Approve a contract with Geo-Consultants to conduct a program of sonar (electrotelluric) soundings to determine depth to bedrock and suitable water bearings aquifers for the Palmdale Groundwater Recharge and Recovery Project in the amount of \$48,500.

Alternative Options:

The Board could choose to not approve the contract.

Impact of Taking No Action:

The viability of the present recharge site for groundwater recharge would continue to have an element of uncertainty.

Background:

Work began on the Palmdale Groundwater Recharge and Recovery Project in 2014. A preliminary design report was completed in 2015, and a final environmental report was completed in June 2016. Test wells and a test recharge basin were constructed at the proposed recharge site in May 2017. To verify the capability of the soil to remove certain water quality constituents, soil samples were collected from the potential recharge site. The soil samples were placed in 6-inch and 8-inch diameter 8 to 10 feet high clear plastic tubes in Trussell Technologies laboratory in Pasadena. Reclaimed water from the Palmdale Water Reclamation Plant was then introduced into the soil columns and data was collected over a period of several weeks. Initial results of data relating to

BOARD OF DIRECTORS
PALMDALE WATER DISTRICT
VIA: Mr. Dennis D. LaMoreaux, General Manager
Mr. Adam Ly, Assistant General Manager

October 1, 2018

Total Organic Carbon (TOC) and N-nitrosodimethylamine (NDMA) removal from the soil column tests in the laboratory has yielded results in which the percent of removal of the two constituents is significantly lower than what is normally acceptable. These test results have led to the District having concerns relating to the overall viability of the site for a full-scale groundwater recharge project.

To develop a higher level of confidence in whether to proceed with design and construction of the facilities at the proposed site or to seek an alternate site, the District desires to seek a second opinion on the hydrogeological conditions through use of sonar technology to locate underground barriers to the potential recharge site and to better locate future production wells.

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:

This project is a Non-Budgeted Item.

Supporting Documents:

- Proposal and Scope of Work from Geo-Consultants



GEOCONSULTANTS, INC.

*Hydrogeology ■ Ground-Water Exploration & Development ■
Ground-Water Resources Management ■*

1450 Koll Circle, Suite 114, San Jose, California 95112-4612

Phone: (408) 453-2541 Fax: (408) 453-2543

www.geo-consultants.com

September 26, 2018
Proposal P-5575

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

**RE: PROPOSAL FOR HYDROGEOLOGICAL STUDY
PALMDALE REGIONAL GROUNDWATER
RECHARGE & RECOVERY PROJECT
SOUTHEASTERN ANTELOPE VALLEY
LOS ANGELES COUNTY, CALIFORNIA**

Dear Mr. Riley:

In accordance with your request, this letter outlines the scope of work and cost estimates for hydrogeological study in the southeastern portion of Antelope Valley. The general study area is bounded roughly by Avenue L-8 on the south, 90th Street East on the west, Avenue J on the north, and 120th Street East on the east. The goal of the study is to identify the depth to the granitic bedrock and determine the thickest sections of alluvial materials in the deeper subsurface.

The purpose of this study is to characterize the overall ground-water environment of the area, and to select sites that exhibit the greatest potential of locations where recharge wells could be located to replenish the regional aquifer system. Optimistically, several drilling sites will be located for future exploration.

HYDROGEOLOGIC CONDITIONS

We have reviewed published information from our library that summarizes the geology and water resources of the region. The site is generally underlain by 500 to 1,000 feet of alluvial deposits consisting of gravels, sands, silts, and clays (Bloyd, 1967). Granitic basement materials underlie the alluvium, but are not generally considered to be satisfactory for ground water production. Production is usually greatest where the thickest section of granular sediments, such as sands and gravels, occur. Subsurface faulting or channeling may alter the depth to the granitic bedrock and the thickness of the alluvial materials.

SCOPE OF WORK

The main purpose of this study will be to identify the hydrogeologic characteristics of the area, and prepare general recommendations as to location of future ground-water recharge wells. The following paragraphs describe the methods to be utilized.

Review of Available Data

The first phase of the project will involve an in-depth study of the available hydrogeologic data for the vicinity. This will include a review of previous studies performed in the area, existing well data, water quality data, aerial photographs, geologic maps, and other regional ground-water occurrence and movement information.

Of particular importance in this area will be the collection of data on drilling operations that have taken place on the site or in the immediate vicinity. Often the drilling information includes electrical logs, which will be extremely beneficial as correlation with our geophysical surveys.

Site Reconnaissance

An on-site reconnaissance will be performed for the purpose of mapping and field checking significant hydrogeologic features, locating existing wells and measuring water levels, and determining accessibility and feasibility of future evaluation of promising areas. Additional information regarding on-site ground-water sources will be collected as much as possible by reviewing existing well production and maintenance records.

Detailed Geophysical Survey

In order to gather as much information as possible on the subsurface conditions, a program of electrotelluric soundings will be performed. The electrotelluric survey measures, on the earth's surface, the electrical fields generated by telluric currents flowing in subsurface formations of differing lithology. These currents are induced by the ionosphere as pulses, with pulse durations depending on the depth of penetration. A highly portable surface receiver transforms the electrotelluric radiation into an audible signal. There is a very specific relationship between depth of origin of an electrotelluric wave front and frequency. Accordingly, the relative electrical conductivity resulting from the electrotelluric response over the depth interval investigated at each survey station is determined.

At the surface, a receiver is set to investigate a specific range of frequencies, or specific depth intervals. As the vertical interval is evaluated, a change in conductivity will cause a change in amplitude of the audible signal. This change is graphed on a relative scale from very low to very high. The vertical scale is set to match the amount of detail necessary for a specific investigation, and also set to correlate with the level of detail

from available exploratory boring or well logs. Except at the most sensitive settings, the readings from the receiver are insensitive to nearby power lines.

Water will usually cause a distinct and recognizable distortion in the electrotelluric signal. Where fluids are present, a qualitative evaluation is made based on the recognition of characteristic distortion effects. The result is a relative conductivity graph of the formations investigated along with a relative delineation of formation/porosity contacts and a qualitative evaluation of the fluids contained within the porosity zones.

The final number of sounding locations will be determined following the completion of the literature review and site reconnaissance. The soundings will allow us to map the depth to the granitic bedrock in the study area, and determine where the thickest and most porous and permeable sections of saturated alluvium are located and thereby choose the best location for future wells.

Report Preparation

The results of our evaluation will be presented in a report that will characterize the site hydrogeology, and evaluate the potential for suitable recharge well locations. The report will include a discussion of the geophysical surveys, along with the basic data on which our conclusions are based. Recommendations will be made for further evaluation by test drilling, as warranted.

COST AND PERFORMANCE

If the survey is completed as proposed, we estimate that the total cost will be \$48,500. These estimated costs cover our research, field surveys, reduction of data and report preparation in the office, and all travel, mileage, per diem, contractual services, and other expenses.

Upon receiving your authorization to proceed, we could initiate the project within three weeks. Weather permitting, the fieldwork could be completed within four to six weeks of project initiation. We estimate that it may take an additional four to six weeks to process the sounding data and prepare a report on the results.

Should the scope and cost of this proposed study be acceptable to you, please inform us, and the project can be scheduled and initiated in a timely manner.

It has been a pleasure preparing this proposal for you. If you have any questions, please call us at your convenience.

Sincerely,

GEOCONSULTANTS, INC.



Keil A. Albert
Senior Geologist, PG-7273



(P-5575.doc)

SELECTED REFERENCES

- Boyd, R.M., Jr., 1967**, Water resources of the Antelope Valley - East Kern Water Agency area, California: U.S. Geological Survey Open File Report 67-21, 73 p.
- Carlson, C.S., Leighton, D.A., Phillips, S.P., and Metzger, L.F., 1998**, Regional water table (1996) and water-table changes in the Antelope Valley ground-water basin, California: U.S. Geological Survey Water-Resources Investigations Report 98-4022, scale, 1:125,000.
- Dibblee, T.W., Jr., 1967**, Areal geology of the western Mojave Desert, California: U.S. Geological Survey Professional Paper 522, 153 p.
- Duell, L.F.W., Jr., 1987**, Geohydrology of the Antelope Valley area, California, and design for a ground-water-quality monitoring network: U.S. Geological Survey Water-Resources Investigations Report 84-4081, 72 p.
- Geoconsultants, Inc., 1997**, Summary report, geological and geophysical exploration, eastern portion of Palmdale Regional Airport, Palmdale, California: report to City of Los Angeles Department of Airports, 13 p.
- _____, **1998**, Summary report, geological and geophysical exploration, western portion of Palmdale Regional Airport, Palmdale, California: report to City of Los Angeles Department of Airports, 16 p.
- _____, **2001**, Summary report, geological and geophysical exploration, proposed agricultural development, Eastern Lancaster/Palmdale area, Los Angeles County, California: report to William Bolthouse Farms, 16 p.
- Mabey, D.R., 1960**, Gravity survey of the western Mojave Desert, California: U.S. Geological Survey Professional Paper 316-D, 73 p.
- Smith, M.B., 1964**, Map showing distribution and configuration of basement rocks in California: U.S. Geological Survey Oil and Gas Investigations Map OM-215, scale 1:500,000.

**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: October 1, 2018 **October 8, 2018**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 7.3 – CONSIDERATION AND POSSIBLE ACTION ON RESCHEDULING FIRST REGULAR BOARD MEETING IN NOVEMBER DUE TO THE VETERAN’S DAY HOLIDAY. (NO BUDGET IMPACT – GENERAL MANAGER LaMOREAUX)***

Recommendation:

Staff recommends the first regular Board meeting in November be rescheduled due to the Veteran’s Day holiday.

Alternative Options:

There are no alternative options.

Background:

The first regular Board meeting in November falls on November 12, 2018, which is a holiday for the District due to Veteran’s Day.

Strategic Plan Initiative/Mission Statement:

This work is part of Strategic Initiative No. 3 – Systems Efficiency.
This item directly relates to the District’s Mission Statement.

Budget:

This item will not impact the Budget.

Supporting Documents:

None.

4.12: USE OF DISTRICT MATERIAL CONTAINING DISTRICT SEAL/LOGO BY DIRECTORS (New logo adopted for use beginning 12-11-17)

(a) Purpose of the Seal/Logo. The District has adopted the following seal, also referred to as its “logo,” as the official seal of the Palmdale Water District, pursuant to the Irrigation District Law (Water Code, § 21404):



The seal has been adopted for purposes of identifying official communications, actions, and positions of the District. Therefore, the Board has approved use of the seal by individual Directors as provided herein to maintain uniformity in the representation of the District.

(b) Use of District Seal/Logo. Material containing the District seal, including District letterhead, shall only be used by Directors for District business and may not be used for any personal matters including political campaign materials or in connection with any political events or activities. Use or display of the District seal/logo at any political event or activity, whether it is in connection with District elections or unrelated elections, is not permitted. **This includes the use of any article of clothing, hat, or name badge displaying the District’s logo.** Any written or electronic communication or presentation by a Director that is not approved as District business herein or approved separately by Board action, shall not contain the District seal/logo.

(c) District Business. District business includes:

- (i) Correspondence approved by the Board, such as communications to the Association of California Water Agencies and other governmental agencies, which shall thereafter be distributed to all Directors;
- (ii) Distribution of any District promotional and informational material generally available to the public

**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: October 2, 2018 **October 8, 2018**
TO: BOARD OF DIRECTORS **Regular Board Meeting**
FROM: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 7.5 – DISCUSSION OF DIRECTORS STAYING WITHIN THEIR ANNUAL BUDGETS. (DIRECTOR MAC LAREN)***

Recommendation:

Staff has no recommendation on this item.

Background:

Page 27 of the 2018 Budget indicating Director's budgets, Article 4.07.3 – Director Compensation, Article 4.07.4 – Director Expenses, Article 4.07.5 – Reports to Governing Board, and Appendix V – Guidelines for Director Compensated Meetings and Activities and Director Meeting Report Form are attached to assist with discussion on this item.

Strategic Plan Initiative/Mission Statement:

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

Budget:

This discussion will not affect the budget.

Supporting Documents:

- Page 27 of 2018 Budget
- Articles 4.07.3, 4.07.4, 4.07.5, and Appendix V of the District's Rules and Regulations

Board of Directors

<u>Directors</u>		BUDGET	PROJECTED	BUDGET	ACTUAL	ACTUAL	ACTUAL
PERSONNEL BUDGET:		2018	2017	2017	2016	2015	2014
1-01-4000-000	Directors Fees		-		64,200	57,000	71,100
Benefits							
1-01-4005-000	Payroll Taxes	5,500	4,500	5,500	4,533	4,346	5,405
1-01-4010-000	Health Insurance		-		75,765	57,956	53,150
	Subtotal (Benefits)	5,500	4,500	5,500	80,297	62,303	58,555
	Personnel Expenses	5,500	4,500	5,500	144,497	119,303	129,655
OPERATING EXPENSES:							
1-01-4050-000	Director's Travel, Seminars & Meetings		-		18,442	19,973	15,677
1-01-xxxx-007	Director's Expense Share - Alverado, Robert	27,000	20,500	22,000			
1-01-xxxx-008	Director's Expense Share - Mac Laren, Kathy	27,000	22,000	22,000			
1-01-xxxx-009	Director's Expense Share - Estes, Joe	27,000	25,500	22,000			
1-01-xxxx-010	Director's Expense Share - Dino, Vincent	27,000	22,000	22,000			
1-01-xxxx-011	Director's Expense Share - Henriquez, Marco	27,000	19,000	22,000			
	Total Operating Expense	135,000	109,000	110,000	18,442	19,973	15,677
	Total Departmental Expenses	140,500	113,500	115,500	162,939	139,276	145,332

4.07.2 PARTICIPATION IN OFFICIAL BUSINESS OF THE DISTRICT

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

4.07.3 DIRECTOR COMPENSATION (Revised 12-11-09, Appendix Updated 6-8-16)

(a) The District has set Director compensation as provided herein, pursuant to Water Code, Section 20200, *et seq.* and Government Code, Section 53232, *et seq.* The Board of Directors shall be compensated for attendance at regular and special meetings of the Board, including committee meetings, and other functions as approved in advance by the Board of Directors, at a rate of \$150.00 per day up to the maximum number of days per month and the maximum annual compensation allowable by law. In addition, Directors shall be entitled to compensation for a day of service in attendance at all meetings and occurrences listed and as indicated in Appendix V, as the Board of Directors has determined those meetings and occurrences constitute performance of official duties rendered as members of the Board. Each Director shall submit, on a form provided by PWD and signed by the Director, the number of days of attendance for which compensation shall be made. Email or FAX submittal of the form shall be acceptable with signature to follow. Compensation for purely social functions is not allowable.

(b) Requests for compensation and expense reimbursement relating to any meeting or event not listed in Appendix V shall not be approved, unless the Board determines that the meeting constitutes one of the following:

(i) A conference or organized educational activity conducted in compliance with Government Code Section 54952.2, including, but not limited to, required ethics training pursuant to Government Code Section 53234, *et seq.*

(ii) A meeting or event attended at the formal request of the Board, including an event to recognize, any employee of the District, or members of the public.

(iii) A meeting or event necessary to further communications with representatives of regional, state and national government on District functions.

(iv) A meeting or event of regional, state and national organizations whose activities affect the District's interests.

4.07.4 DIRECTOR EXPENSES (Revised 5-24-17)

The District has set the reimbursement for Director expenses as provided herein, pursuant to Water Code, Section 20200, *et seq.* and Government Code, Section 53232, *et seq.* Directors shall be compensated for actual, reasonable and necessary expenses incurred for participating in activities approved in advance by the Board of Directors or as allowed as indicated in Appendix V attached hereto, and that further the goals and interests of the District.

This policy is intended to result in no personal gain or loss to a Director and no reimbursement shall be allowed for transportation, lodging, meals or incidental expenses of family members or guests of a Director traveling with the Director to an authorized event.

Directors shall exercise prudence in all expenditures. Requests for reimbursement must be accompanied by detailed receipts showing each item purchased and documentation and shall be submitted on a form provided by the District (included in Appendix V) and signed by the Director. Email or FAX submittal of the form shall be acceptable with signature to follow.

The following guidelines and criteria for reimbursement while traveling on District business have been established for District employees and shall also apply to Directors:

a. Credit Card Use:

Credit cards are issued to Directors and are to only be used for District business and expenses. No personal items may be charged on District credit cards, and all charges must be in line with travel guidelines and policies, and detailed and summary receipts. Director Expense Reports must be submitted within one month of credit card charges.

b. Mileage:

The mileage reimbursement rate to operate privately-owned vehicles used on District business will be the allowable IRS rate in effect at the time the expense is incurred. The mileage distance subject to reimbursement should be calculated based on actual miles traveled.

c. Air Travel:

Air travel should be booked as the least expensive flight. First class travel is prohibited unless there is no other alternative available and the travel on that particular flight is absolutely necessary.

d. Car Rentals:

It is the District's policy to allow the rental of a mid-size automobile for District business. Additional car rental loss and damage coverage may be required, and this requirement should be reviewed with Human Resources prior to rental.

e. Meals:

<u>Partial Day Travel</u>	<u>Full Day Travel</u>
Breakfast \$10	\$55/day
Lunch \$15	
Dinner \$30	

- To be eligible for breakfast reimbursement: Travel must have started prior to 7 a.m. or have stayed overnight;
- To be eligible for lunch reimbursement: Travel must have started prior to 11 a.m. or have stayed overnight. If travel ends prior to noon, lunch expenses will not be eligible for reimbursement.
- To be eligible for dinner reimbursement: Travel must have started prior to 4 p.m. or have stayed overnight. If travel ends prior to 6 p.m., dinner expenses will not be eligible for reimbursement.

f. Lodging:

The reimbursement rate should not exceed the published conference rates for lodging unless the conference hotels are completely full. If full, a hotel with comparable lodging costs should be chosen.

g. Parking:

Parking for District travel shall be reimbursed.

All requests for reimbursement shall be submitted monthly to the General Manager after the expenses were incurred or expenditures made. The General Manager shall ensure prompt payment of the reimbursable expenses and all questions regarding payment of reimbursable expenses to the staff shall be directed to the General Manager. The Finance Committee shall periodically review Director's expense reports and shall prepare such reports and documents as may be required under Government Code Section 53065.5 and Government Code 53232.3.

4.07.5 REPORTS TO GOVERNING BOARD

At the regular meeting of the Board following any meeting, conference, educational activity or other authorized event for which compensation for a day of services or reimbursement of expenses is requested, the Director attending the event shall give a brief report on the meeting or event. If more than one Director of the District attended the same meeting, a joint report may be made. Reports may be written or oral.

4.08: SPEAKING ENGAGEMENTS AND/OR PRESENTATIONS BY DIRECTORS

The District recognizes the importance of interaction with the community it serves and encourages opportunities for interaction that provides the most accurate information available. This often takes the form of speaking and giving presentations to community and other groups on behalf of the District. Community groups, whether formal or informal, are likely to focus on particular areas of the District's operations and policies. These include topics such as water rates and structure, water quality, state and local water conditions, water conservation and efficiency, and business and infrastructure planning.

The District therefore establishes these rules to ensure the community's needs are met and that the District is accurately represented. Members of the Board of Directors shall not make any presentation on behalf of the District, without the prior approval of the Board, as provided herein. Presentations made on behalf of the District, and therefore governed by these rules, include any speaking engagement or public presentation at any event to any group, entity, or association, related to any matter that relates to the business of the District, unless the Director makes the disclaimers required in these rules.

(a) Speaking Engagements and/or Presentations Made Pursuant to Requests from the Public.

APPENDIX V

GUIDELINES FOR DIRECTOR COMPENSATED MEETINGS AND ACTIVITIES

AND

DIRECTOR MEETING REPORT FORM

APPENDIX V

Palmdale Water District Guidelines for Director Compensated Meetings and Activities			
Organization/Affiliation	Meeting, Event, or Function	Criteria	Director Fee Expenses
Palmdale Water District	Business Functions: Board meetings, Committee meetings, Appointed Position meetings (i.e. AVSWCA, Plant 42 ERAB), and General Manager initiated meetings. Internal District Activities: Staff meetings, Employee Lunches, Employee Appreciation Events, and Christmas Lunch/Dinner, etc.	All meetings and functions sponsored or conducted by the District, all Board-approved chair, member, and alternate committee and liaison assignments as provided; legislative meetings and trips for District related business.	YES
	Water Awareness Activities: Landscape Workshops, Blue Ribbon Water Week, Water Awareness Month Activity, etc.	Director compensation only if scheduled to work a booth or some aspect of the event.	NO
Antelope Valley water purveyors	Public Board and committee meetings of AVEK, LCID, QHWD, RCSD, LACWW District 40, and mutual water companies.	All meetings in this category can be claimed for compensation during the first year of a new director's term. All meetings and functions sponsored or conducted by these organizations where business with PWD is directly referenced as an agenda item can be claimed for compensation by all directors.	YES
Areas Served by the District	Meetings of the Palmdale City Council, Palmdale Planning Commission, Los Angeles County Regional Planning, and Los Angeles County Board of Supervisors.	All meetings in this category can be claimed for compensation during the first year of a new director's term. All meetings and functions sponsored or conducted by these organizations where business with PWD is directly referenced as an agenda item can be claimed for compensation by all directors.	YES
Antelope Valley Integrated Regional Water Management Group	Monthly meetings scheduled through completion of Plan.	Meetings will be compensated for one director per month unless an Ad-Hoc Committee is formed for this issue. Both assigned directors would then be eligible for attendance compensation.	YES
Association of California Water Agencies (ACWA)	ACWA Spring and Fall Conferences (including ACWA/JPIA meetings), Federal and State Legislative Conferences, Region 8 meetings, ACWA-appointed committee meetings, Public Water Agency Group meetings, and other ACWA-sponsored events.	All meetings, functions, and tours, sponsored or conducted by this organization and confirmed in advance by PWD Board action.	YES
California Special Districts' Association (CSDA)	Annual Conference, educational functions, legislative meetings, CSDA-appointed committee meetings, and other CSDA-sponsored events.	All meetings, functions, and tours, sponsored or conducted by this organization and confirmed in advance by PWD Board action.	YES
Water Education Foundation	Annual briefings and water-related tours.	All meetings, functions, and tours, sponsored or conducted by this organization and confirmed in advance by PWD Board action.	YES
Director Training Programs	CSDA Governance Academy and Special District Institute Certificate of Completion.	All new directors are encouraged to complete one or both of these programs in their first two years on the Board in addition to any legally required training.	YES
Palmdale Chamber of Commerce	Annual dinner, monthly business meetings, business mixers, monthly luncheons, Christmas Parades, and other special events.	Attendance not compensable unless speaking on behalf of the District.	NO
Other Antelope Valley Non-Governmental Organizations	Meetings of the A.V. Board of Trade, A.V. Building Industry Association, Palmdale Sheriff Boosters, Chambers of Commerce, etc.	Attendance not compensable unless speaking on behalf of the District.	NO
Other Antelope Valley Governmental Organizations	Meeting of the Sanitation Districts of Los Angeles County Districts 14 and 20, Lahontan Regional Water Quality Control Board (Southern California), Lancaster City Council, town councils, etc.	Attendance not compensable unless speaking on behalf of the District.	NO
Other Community Events	Antelope Valley Fair, Home & Garden Show, Palmdale Fall Festival, Palmdale Thursday Nights at the Square, Summer Concerts, Poppy Festival, etc.	Attendance not compensable unless speaking on behalf of the District, scheduled to work a booth on behalf of the District, or otherwise act as a formal representative of the District.	NO



PALMDALE WATER DISTRICT DIRECTOR MONTHLY MEETING COMPENSATION FORM

INSTRUCTIONS: SUBMIT FORM TO DAWN DEANS BY THE FIRST REGULAR BOARD MEETING FOR PRIOR MONTHS' MEETINGS. VERIFIED FORMS WILL BE FORWARDED FOR PROCESSING.

DIRECTOR TO COMPLETE AB1234 REPORTING COLUMN

NAME: _____ MONTH: _____ YEAR: _____

SIGNATURE: _____ DATE: _____

<i>MEETING DESCRIPTION</i>	<i>DATE</i>	<i>AB1234 REPORT GIVEN PER ARTICLE 4 SECTION 4.07.5</i>	<i>AMOUNT</i>
<u>REGULAR BOARD MEETINGS:</u>			
2 nd Monday		N/A	\$
4 th Monday		N/A	\$
<u>SPECIAL BOARD MEETINGS:</u>			
		N/A	\$
		N/A	\$
		N/A	\$
<u>COMMITTEE MEETINGS:</u>			
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
<u>OTHER AUTHORIZED MEETINGS:</u>			
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
		<input type="checkbox"/> Yes <input type="checkbox"/> No	\$
TOTAL AMOUNT DUE:			\$

FOR OFFICE USE ONLY:
VERIFICATION OF AB1234 REPORTING
PER BOARD MINUTES

NAME/SIGNATURE

DATE

PALMDALE WATER DISTRICT DIRECTOR EXPENSE REPORT

EVENT AND DATES

**Expense Type	Sun.		Mon.		Tues.		Wed.		Thurs.		Fri.		Sat.		Total
	c	cc	c	cc	c	cc	c	cc	c	cc	c	cc	c	cc	
Hotel															
Telephone															
Breakfast															
Lunch															
Dinner															
Gratuities															
Air Travel															
Shuttle/Taxi Fares															
Parking															
Registration Fees															
Total															
Mileage			To	Around Town	Return						Total Roundtrip				
Start											Roundtrip				
End															
Total															

DETAILED RECEIPTS MUST BE ATTACHED FOR ALL EXPENSES

CC - Denotes a Credit Card (CalCard) Expenses/C - Denotes a Cash Expenses

Personnal Credit Cards are considered "Cash"; check the CC box for District CalCard Expenses

Total Mileage: _____

Cash Expenses: _____

x Mileage Rate: 0.54

Credit Card Expense: _____

Mileage Expense: _____

Total Expenses: _____

Total Reimbursement: _____

Printed Name

Director's Signature:

Date:

DIRECTOR MEETING REPORT FORM

NAME: _____ **DATE:** _____

PWD BOARD APPROVAL DATE: _____

NAME OF MEETING/ORGANIZATION:

DATE(S) AND LOCATION OF MEETING:

GENERAL SUBJECT MATTER OF MEETING:

KEY POINT(S) RELATING TO PWD OPERATIONS AND/OR POLICIES:

LIST OF NEW CONTACT(S) AND HOW THEY CAN BENEFIT PWD:

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: October 2, 2018 **October 8, 2018**
TO: BOARD OF DIRECTORS **Regular Board Meeting**
FROM: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 7.6 – DISCUSSION OF THE EFFECT OF UNEXCUSED
ABSENCES ON DIRECTOR ACTIVITIES. (GENERAL COUNSEL DUNN)***

Recommendation:

Staff has no recommendation on this item.

Background:

Article 4.07.2 – Participation in Official Business of the District is attached to assist with discussion on this item.

Strategic Plan Initiative/Mission Statement:

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

Budget:

This discussion will not affect the budget.

Supporting Documents:

- Article 4.07.2 of the District’s Rules and Regulations

4.07.2 PARTICIPATION IN OFFICIAL BUSINESS OF THE DISTRICT

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4.07.3 DIRECTOR COMPENSATION (Revised 12-11-09, Appendix Updated 6-8-16)

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AGENDA ITEM NO. 7.7
Hotel and Travel
Accommodations

Event Name/Date:

A.W.W.A. Water Quality Technology Conference 2018/November 11 - 15, 2018

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 closest 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

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MEMBERSHIP	CONFERENCES & EDUCATION	RESOURCES & TOOLS	PUBLICATIONS	LEGISLATION & REGULATION	Search <input type="text" value="awwa.org"/> <input type="button" value="GO"/>	
Conferences	Seminars	Distance Learning	Presenter Resources	Exhibitor & Sponsor Resources	Credits	Events Calendar

Home > Conferences & Education > Conferences > Water Quality Technology

Water Quality Technology Conference® & Exposition - Nov. 11-15, 2018 | Toronto, Canada

- [AFFORDABILITY](#)
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- [MEMBRANE TECHNOLOGY](#)
- [SUSTAINABLE WATER MANAGEMENT](#)
- [UTILITY MANAGEMENT](#)
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- [WATER INFRASTRUCTURE](#)
- [WATER QUALITY TECHNOLOGY](#)
- [YP SUMMIT](#)



The premier conference for water quality professionals around the world!

This established and highly regarded conference provides a practical forum for a wide range of water technology professionals to exchange the latest research and information.



REGISTER & HOTEL	2018 Program	Workshops & Tours	Exposition	2018 Schedule
-----------------------------	--------------	-------------------	------------	---------------

Registration is now open!

All conference events will take place at the Sheraton Centre Toronto Hotel in downtown Toronto, November 11-15, 2018. Please note that a valid U.S. passport is required to travel between USA and Canada.

REGISTER ONLINE

- [Registration Form \(PDF\)](#)
- [Professor/Student Special Offer Form \(PDF\)](#)

Do you need a letter of invitation from AWWA? Submit the [request form](#). Requests will be honored for attendees and presenters with the intent to register.

BOOK YOUR ROOM

A limited number of conference sleeping rooms are available at the rate of \$239 CAD until October 12, or until block is full. Please do not delay your booking!



Who attends WQTC?



Water Quality specialists
Scientists
Engineers



Lab personnel
 Academics & Students
 Water Utility Managers
 Distributors & Manufacturers
 Consultants
 Product representatives
 Local & Federal Government
 Researchers
 Treatment plant managers

WQTC 2018 Registration Rates

	Member Early	Non member Early	Member Late	Non member Late
Full-Conference Registration (Best Value!) (Includes technical sessions, exposition; meals; does not include workshops)	\$665	\$845	\$845	\$945
Monday-Only (includes Monday lunch and Monday reception)	\$405	\$590	\$590	\$695
Tuesday-Only (includes Tuesday lunch)	\$360	\$545	\$545	\$645
Wednesday-Only	\$330	\$515	\$515	\$615
Student (ID required - Same as Full-Conference)	\$35	\$35	\$35	\$35
Speaker (40% discount off of the Full-Conference rate)	\$400	\$400	\$400	\$400
Exhibits-Only	\$60	\$90	\$90	\$90
Spouse/Guest Registration (non-industry guest access to exhibit hall)	\$35	\$35	\$35	\$35
Professor/Student Special offer (Professors: Bring 3 paid students and receive a free full-conference registration!)	Professor/Student Offer Registration Form (PDF)			

Cancellation Policy: Cancellations must be received in writing and faxed or mailed to AWWA. Phone cancellations are not accepted. All cancellations postmarked/fax-dated by early deadline will receive a refund, minus a 25% administrative fee. Cancellations post-deadline will not be refunded; however, substitute registrants are welcome, if pre-approved in writing.

For questions regarding registration, lodging or general conference questions, please contact the [Conferences and Events Group](#).

LEARN

Journal AWWA
 eLearning
 Webinars
 ACEOnline
 CEUs/PDHs
 Scholarships
 How Water Works

AT WORK

Opflow
 Standards
 Manuals of Practice
 Benchmarking
 Partnership for Safe Water
 Partnership for Clean Water
 Total Water Solutions

CONNECT

Join AWWA
 Renew Membership
 Sections: Your Local AWWA
 Volunteer
 Conferences
 Resource Communities
 Community Engineering Corps
 Sharepoint for Committees

EXPLORE

AWWA Store
 Sourcebook
 Press Room
 Policy Statements
 DrinkTap.org
 Drip Calculator
 AWWAIndia

JOBS

Find a Job
 Post a Job

ADVERTISE WITH US

EXHIBITOR ZONE

DONATE



WATER QUALITY Technology Conference

November 11-15, 2018 | Sheraton Centre Toronto Hotel, Toronto, Ontario

To register, visit awwa.org/wqtc
and submit online or complete this registration form and
fax or mail it with full payment or credit card information.
Fax: 303.347.0804
6666 West Quincy Avenue Denver, CO 80235-3098
Questions? Call 1.800.926.7337

Registration Form

AWWA Member No. _____ Individual Organization

First Name (FOR BADGE) _____ M.I. _____ Last Name _____

Title _____

Company or Organization _____

Mailing Address _____

City _____ State/Prov. _____ Country _____ ZIP/Postal Code _____

Telephone _____ Fax _____

Email _____

Name of Registered Spouse/Guest (extra cost) _____

Check here if you require special accommodations to fully participate. AWWA will contact you within five (5) business days.

Registration Check the items below for which you are registering.

	Registering on or before 10/12/2018		Registering on or after 10/13/2018	
	Member	Nonmember	Member	Nonmember
Technical Sessions and Exposition				
<input type="checkbox"/> A Full Conference (includes lunches and reception, does not include workshops)	\$665	\$845	\$845	\$945
<input type="checkbox"/> B Monday Only (includes Monday lunch and reception)	\$405	\$590	\$590	\$695
<input type="checkbox"/> C Tuesday Only (includes Tuesday lunch)	\$360	\$545	\$545	\$645
<input type="checkbox"/> D Wednesday Only	\$330	\$515	\$515	\$615
<input type="checkbox"/> G Exhibits Only (includes receptions—non-booth staff)	\$60	\$90	\$90	\$90
<input type="checkbox"/> H Student (includes full conference).....	\$35	\$35	\$35	\$35
<input type="checkbox"/> P Speaker (40% discount off full conference)	\$400	\$400	\$400	\$400

Pre-conference Workshops

<input type="checkbox"/> PCW01 Probing Algae Blooms: Advanced Techniques in Monitoring and Treating Cyanobacteria and Cyanotoxins	\$275	\$375	\$375	\$475
<input type="checkbox"/> PCW02 Implementing Drinking Water Biofiltration in Cold Weather Conditions.....	\$195	\$295	\$295	\$395
<input type="checkbox"/> PCW02H (Student) Implementing Drinking Water Biofiltration in Cold Weather Conditions	\$75	\$75	\$75	\$75
<input type="checkbox"/> PCW03 Building Water Safety Plans & Why They're Needed: the Role of Public Water Suppliers (Classroom Portion ONLY)	\$110	\$210	\$210	\$310
<input type="checkbox"/> PCW03H(Student) Building Water Safety Plans & Why They're Needed: the Role of Public Water Suppliers (Classroom Portion ONLY)	\$75	\$75	\$75	\$75

Technical Facility Tours

<input type="checkbox"/> T1 DeCew Falls WTP & Niagara Falls (Including "Journey Behind the Falls" and lunch) ...	\$95	\$95	\$95	\$95
<input type="checkbox"/> T2 R.C. Harris WTP and Western Beaches CSO Facility	\$55	\$55	\$55	\$55
<input type="checkbox"/> T3 Island WTP, John Street Pumping Station and Enwave (includes ferry ticket)	\$60	\$60	\$60	\$60
<input type="checkbox"/> T4 Peel Region Water Treatment Plant	\$55	\$55	\$55	\$55

Additional Options

<input type="checkbox"/> Z15 First Time Attendee Program	\$0	\$0	\$0	\$0
<input type="checkbox"/> Z20 Young Professionals Networking Event	\$0	\$0	\$0	\$0
<input type="checkbox"/> SA Spouse/Guest (includes exhibits access for a non-industry guest—no meals).....	\$35	\$35	\$35	\$35
Total	\$	\$	\$	\$

Continued on reverse

What one business activity best describes your company? (please circle only one—Required)

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

What one category best describes your job function? (please circle only one—Required)

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

What one category best describes your field served/principal activity? (Select all that apply—Required)

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

Which one of the following best describes your responsibility for purchasing decisions? (please circle only one—Required)

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

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

- | | | |
|---|-----------------------------------|--|
| A. Aquifer/Watershed | L. GIS | W. Monitoring/Equipment |
| B. Aerators/Equipment | M. Groundwater | X. Parts/Tools |
| C. Biosolids Handling | N. Hazardous Waste | Y. Pipe/Equipment |
| D. Certification | O. Hydrants | Z. Pumps |
| E. Chemicals/Equipment | P. Instrumentation | AA. Safety/Equipment |
| F. Conservation | Q. Laboratory Services/Equipment | BB. Software |
| G. Contractors | R. Leak/Backflow Prevention | CC. Tanks/Equipment |
| H. Corrosion | S. Management/Consultant Services | DD. Valves/Gates |
| I. Distribution System Analysis/Equipment | T. Membrane Systems/Equipment | EE. Water/Wastewater Treatment Equipment |
| J. Filter Equipment Material | U. Meters/Flowmeters | FF. Well Design/Equipment |
| K. Gas Detection/Equipment | V. Modeling | GG. None of the above |
| | | HH. Other (please specify):
_____ |

Are you a first-time conference attendee? (Required) Yes No

Would you like to be involved with AWWA Committees? Yes No, thanks Currently involved

Total/Method of Payment: AWWA Federal Tax ID# 13-5660277		TOTAL AMOUNT DUE: \$ _____
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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: Cancellations or substitutions must be received in writing, on company letterhead, and faxed or mailed to AWWA. Phone cancellations are not accepted. All cancellations postmarked/fax-dated by 10/12/2018 will receive a refund, minus a 25% administrative fee. Beginning on 10/13/2018, cancellations will not be refunded; however, substitute registrants are welcome, if pre-approved in writing. Fax requests for substitutions or cancellations to 303.347.0804 or email service@awwa.org
This form is not valid for on-site registration or Exhibitor registration.

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Conferences	Seminars	Distance Learning	Presenter Resources	Exhibitor & Sponsor Resources	Credits	Events Calendar

AFFORDABILITY

Home > Conferences & Education > Conferences > Water Quality Technology

ANNUAL CONFERENCE

Water Quality Technology Conference® & Exposition - Nov. 11-15, 2018 | Toronto, Canada

MEMBRANE TECHNOLOGY

SUSTAINABLE WATER MANAGEMENT

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WATER INFRASTRUCTURE

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WQTC PROGRAM

[VIEW THE 2018 TECHNICAL PROGRAM](#)

[Conference Announcement \(PDF\)](#)

2018 Keynotes

Opening General Session

Monday 8:15 - 9:30 a.m.

The Opening General Session sets the stage for the learning and fellowship to come! Get inspired and make new connections as you are welcomed by our opening speakers.

Keynote: Dianne Saxe, Environmental Commissioner of Ontario

AEESP Emerging Investigator Lecturer

Monday, 4:00-5:00 p.m.

Networking Events

Networking Receptions and Luncheons in the WQTC Exhibit Hall

Join us in the exhibit hall Sunday and Monday evenings for happy hour. One beverage coupon for each reception is attached to your badge. Also included in full-conference registration is lunch in the exhibit hall on Monday and Tuesday.

First-Time Attendee Program

Learn how to get the most out of your conference experience! Join us Sunday 4:30-5:00 p.m.

WQTC Social Presented by the Ontario Water Works Association

Tuesday 6:00 - 9:00 at The Citizen Bar, 522 King Street West



Everyone is welcome to the social at the 1930's Toronto heritage styled Citizen Restaurant and Bar. We will be raising money for Water For People which exists to promote the development of high-quality drinking water and sanitation services, accessible to all, and sustained by strong communities, businesses, and governments. Test your water knowledge by joining in our jeopardy style trivia game, partake in a ping pong game or just hang out with your water industry peers. Light appetizers prepared using local ingredients will be provided, with additional beverages available for purchase. Transportation options include a 13 min walk, King St Streetcar, or taxi/ride service. The Local Host Booth has detailed information, including maps and directions. Please join us and our sponsors for this fun evening!

Student and Young Professional Events

Find a WQTC Mentor

The mentor program matches student and young professional first-time attendees with a mentor. These volunteer mentors are experienced professionals who will help guide you through the conference maze by suggesting technical sessions, events and by providing advice and support.

Interested in a mentor for WQTC18? Email us by Monday, October 22 and include the following:

- 1.) Where you go to school and what you are studying.
- 2.) The type of person you'd like to meet (consultant, utility, education/research, government, etc.)

Committee Speed Networking

Monday, 5:30 - 6:30 p.m.

Join us at Monday's Exhibit Hall Reception (look for the signs!) for this fast-paced networking session. Attendees will have a chance to hear about AWWA Committee Volunteer opportunities. AWWA Committees are the lifeblood of our organization. Each committee will do a brief introduction and will identify their current projects. After that, you'll have an opportunity to sit at the table of the committee that you are most interested in. After 10 minutes, we'll blow the whistle and ask you to move to another table. This is a great way to learn about AWWA, meet a lot of industry people, and get involved in AWWA. Be sure to bring your business cards.

Meet the Boss Lunch

Tuesday noon-1:30 p.m.

Ever wanted the chance to talk to a general manager of a water utility? A principal in a consulting engineering firm? The head of a manufacturing company? An EPA regulator? Join us for this low-key lunch meet-up. We will be incorporating some Q & A into the conversations as you eat lunch. This is a great opportunity for you to get some face time with some of the leaders of the water industry. This is a great way to learn about careers in the water industry and meet a lot of influential AWWA members. Be sure to bring your business cards. Reservations not required -just show up!

Student Awards Celebration

Wednesday, 5:05-5:15 p.m.

Throughout the conference, AWWA volunteers will be judging student presentations and posters. Winners will be recognized at a special award ceremony. Come show your support!

Download the WQTC Mobile App

Available in November!

Conference Proceedings

Conference proceedings will be available online for six month post-conference.

For questions regarding registration, lodging or general conference questions, please contact the [Conferences and Events Group](#).

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Drip Calculator
AWWAIndia

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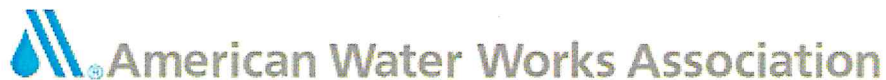
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◀ BACK TO THE WATER QUALITY TECHNOLOGY CONFERENCE 2018 PROGRAM



SCHEDULE

While AWWA has taken care to ensure the qualifications of speakers, presenters and moderators at this conference, the opinions, comments and other views made by participants in his/her presentation (s) are not necessarily those of AWWA nor its officers, directors, planning committee or staff.

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Sunday, November 11, 2018

PCW01 - PROBING ALGAE BLOOMS: ADVANCED TECHNIQUES IN MONITORING AND TREATING CYANOBACTERIA AND CYANOTOXINS

Event Type: Workshop

Track: Microbes & Algae

Moderator(s): Patricia Klonicki

Day: Sunday, November 11,
2018

Time: 08:00 AM - 05:00 PM

SESSION DETAILS ▶

OVERVIEW ▶

PCW02 - IMPLEMENTING DRINKING WATER BIOFILTRATION IN COLD WEATHER CONDITIONS

Event Type: Workshop	Day: Sunday, November 11, 2018	SESSION DETAILS ►
Track: Treatment Technologies	Time: 08:00 AM - 05:00 PM	OVERVIEW ►
Moderator(s): Giridhar Upadhyaya		

PCW03 - BUILDING WATER SAFETY PLANS & WHY THEY'RE NEEDED: THE ROLE OF PUBLIC WATER SUPPLIERS

Event Type: Workshop	Day: Sunday, November 11, 2018	SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling	Time: 08:00 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Jennifer Clancy		

Monday, November 12, 2018

OGS - OPENING GENERAL SESSION

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ►
Track: Keynote	Time: 08:15 AM - 09:30 AM	OVERVIEW ►
Moderator(s): Kimberly Kunihiro	Location: Ballroom 204 (Level 2)	

PST01 - WATER RESOURCE MANAGEMENT POSTER SESSION

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ►
Track: Poster Sessions	Time: 09:45 AM - 10:45 AM	OVERVIEW ►
Moderator(s):		

MON01 - MANAGING CYANOBACTERIA AND THEIR TOXINS

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Microbes & Algae Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): Joe Hernandez

MON02 - CHOOSING AND IMPROVING OCCT: ARE YOU OPTIMIZED?

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): Philip Brandhuber

MON03 - PATHOGENS: ECOLOGY, TRACKING, MEASURING AND MONITORING

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Water Resources: Sources, Protection & Emerging Issues Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): Bina Nayak

MON04 - UNDERSTANDING DBP FORMATION IN THE DISTRIBUTION SYSTEM

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Disinfection Practices & DBPs Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): Susan Teefy

MON05 - BIOLOGICAL ION EXCHANGE

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Treatment Technologies Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): Ashley Evans

MON06 - PERFLUORINATED COMPOUNDS: QUANTIFICATION AND DETECTION METHODS

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Perfluorinated Compounds Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): David Hanigan

STS01 - ACTIONS TO ADDRESS BROMIDE DISCHARGES IMPACTING DRINKING WATER

Event Type: Professional Program Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Controlling Contaminants Time: 10:15 AM - 11:45 AM OVERVIEW ►
Moderator(s): Adam Carpenter

EHES01 - REDUCING LEGIONNAIRES' DISEASE RISK: MONITORING FOR LEGIONELLA PNEUMOPHILA IN DISTRIBUTION SYSTEMS

Event Type: Exhibit Hall Education Session Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Microbes & Algae Time: 12:15 PM - 12:30 PM OVERVIEW ►
Moderator(s): Kristin Majeska Location: Booth 302

EHES02 - WATER QUALITY TECHNOLOGY: ENHANCED DISTRIBUTION SYSTEM MONITORING AND MANAGEMENT

Event Type: Exhibit Hall Education Session Day: Monday, November 12, 2018 SESSION DETAILS ►
Track: Data Driven Decisions: Methods, Sensors & Monitoring Time: 12:30 PM - 12:45 PM OVERVIEW ►
Moderator(s): Harold Mosley Location: Booth 608

EHES03 - INTEGRATED MONITORING STRATEGIES FOR CYANOBACTERIA

Event Type: Exhibit Hall Education
Session
Track: Microbes & Algae
Moderator(s): Frances Buerkens

Day: Monday, November 12,
2018
Time: 12:45 PM - 01:00 PM
Location: Booth 511

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

MON07 - PATHOGEN CHARACTERIZATION AND RISK

Event Type: Professional Program
Track: Microbes & Algae
Moderator(s): Yone Akagi

Day: Monday, November 12,
2018
Time: 01:15 PM - 03:15 PM

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

MON08 - MODELING AND DATA ANALYTICS (BEING ANALYTICAL IS A GOOD THING!)

Event Type: Professional Program
Track: Distribution Issues, Water Quality
& Modeling
Moderator(s): Kenneth Thompson

Day: Monday, November 12,
2018
Time: 01:15 PM - 03:15 PM

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

MON09 - PROBLEMATIC PLANTS: MACRO AND MICRO CONTROL, DETECTION AND TREATMENT

Event Type: Professional Program
Track: Water Resources: Sources,
Protection & Emerging Issues
Moderator(s): Erik Rosenfeldt

Day: Monday, November 12,
2018
Time: 01:15 PM - 03:15 PM

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

MON10 - TREATMENT OPTIONS TO MINIMIZE DBP FORMATION

Event Type: Professional Program
Track: Disinfection Practices & DBPs
Moderator(s): Susan Teefy

Day: Monday, November 12,
2018
Time: 01:15 PM - 03:15 PM

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

MON11 - RETHINKING MEMBRANES

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ▶
Track: Treatment Technologies	Time: 01:15 PM - 03:15 PM	OVERVIEW ▶
Moderator(s): YuJung Chang		

MON12 - THE LEADING EDGE OF EMERGING CONTAMINANTS

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ▶
Track: Controlling Contaminants	Time: 01:15 PM - 03:15 PM	OVERVIEW ▶
Moderator(s): Brent Alspach		

MON13 - PERFLUORINATED COMPOUNDS: CASE STUDIES FOR TREATMENT

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ▶
Track: Perfluorinated Compounds	Time: 01:15 PM - 03:15 PM	OVERVIEW ▶
Moderator(s): Detlef Knappe		

EHES04 - OPTIMIZED TREATMENT THROUGH SOURCE WATER MONITORING FOR NATURAL ORGANIC MATTER

Event Type: Exhibit Hall Education Session	Day: Monday, November 12, 2018	SESSION DETAILS ▶
Track: Water Resources: Sources, Protection & Emerging Issues	Time: 03:15 PM - 03:30 PM	OVERVIEW ▶
Moderator(s): Justin Dickerman	Location: Booth 316	

PST02 - TREATMENT TECHNOLOGIES TO IMPROVE WATER QUALITY POSTER SESSION

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ▶
Track: Poster Sessions	Time: 03:15 PM - 04:15 PM	OVERVIEW ▶

Moderator(s):

EHES05 - CONTROL OF THM LEVELS IN DRINKING WATER DISTRIBUTION SYSTEMS

Event Type: Exhibit Hall Education Session	Day: Monday, November 12, 2018	SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling	Time: 03:30 PM - 03:45 PM	OVERVIEW ►
Moderator(s): Gary Schaeffer	Location: Booth 312	

EHES06 - DOC SPECIATION: GOING FURTHER WITH DATA DRIVEN DECISIONS

Event Type: Exhibit Hall Education Session	Day: Monday, November 12, 2018	SESSION DETAILS ►
Track: Data Driven Decisions: Methods, Sensors & Monitoring	Time: 03:45 PM - 04:00 PM	OVERVIEW ►
Moderator(s): Amanda Scott		

AEESP - EMERGING INVESTIGATOR LECTURE

Event Type: Professional Program	Day: Monday, November 12, 2018	SESSION DETAILS ►
Track: Data Driven Decisions: Methods, Sensors & Monitoring	Time: 04:00 PM - 05:00 PM	OVERVIEW ►
Moderator(s): Treavor Boyer		

Tuesday, November 13, 2018

TUEEB - INTRODUCTION AND OVERVIEW OF NEW AWWA STANDARD G485 ON DIRECT POTABLE REUSE

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Water Resources: Sources, Protection & Emerging Issues	Time: 07:15 AM - 08:00 AM	OVERVIEW ►
Moderator(s): Glen Boyd		

STS02 - GREAT LAKES WATER QUALITY CHALLENGES

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Controlling Contaminants	Time: 08:15 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Liza Ballantyne, Laura Meteer		

TUE01 - MICROBIOMES FROM SOURCE TO TAP

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Microbes & Algae	Time: 08:15 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Sheldon Masters		

TUE02 - LEARNING FROM LEAD SCALES

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling	Time: 08:15 AM - 09:45 AM	OVERVIEW ►
Moderator(s): Darren Lytle		

TUE04 - SOURCE CONTROL MEETS SOURCE WATER PROTECTION

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Water Resources: Sources, Protection & Emerging Issues	Time: 08:15 AM - 09:45 AM	OVERVIEW ►
Moderator(s): Stephanie Ishii		

TUE06 - DBP IMPACTS AND THEIR FORMATION PREDICTION AND CONTROL

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
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Track: Disinfection Practices & DBPs Time: 08:15 AM - 12:00 PM
Moderator(s): David Reckhow

[OVERVIEW ▶](#)

TUE07 - BIOFILTRATION: PRACTICAL FIELD EXPERIENCE, RESEARCH AND OPERATIONAL DATA ON BIOFILTER PERFORMANCE

Event Type: Professional Program Day: Tuesday, November 13, 2018
Track: Treatment Technologies Time: 08:15 AM - 12:00 PM
Moderator(s): Kerry Meyer

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

TUE08 - RAPID MICROBIAL CHARACTERIZATION

Event Type: Professional Program Day: Tuesday, November 13, 2018
Track: Data Driven Decisions: Methods, Sensors & Monitoring Time: 08:15 AM - 09:45 AM
Moderator(s): John Albert

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

EHES07 - NOVEL ONSITE TRACE METALS TREATMENT SYSTEM PROVIDES ECONOMICAL AND RELIABLE REMOVAL OF CR(VI), CU, HG, PB AND SE

Event Type: Exhibit Hall Education Session Day: Tuesday, November 13, 2018
Track: Treatment Technologies Time: 09:45 AM - 10:00 AM
Moderator(s): Rick Bacon Location: Booth 311

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

EHES08 - INNOVATIVE USE OF ION EXCHANGE RESINS FOR REMOVAL AND CONTROL OF PFOS/PFC FROM WATER SUPPLIES

Event Type: Exhibit Hall Education Session Day: Tuesday, November 13, 2018
Track: Perfluorinated Compounds Time: 10:00 AM - 10:15 AM
Moderator(s): Mike Weatherill Location: Booth 611

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

PST03 - MONITORING AND REMOVING CONTAMINANTS IN WATER POSTER SESSION

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Poster Sessions	Time: 10:00 AM - 11:00 AM	OVERVIEW ►
Moderator(s):		

EHES09 - INTELLIGENT SOLUTIONS AND RESPONSE FOR YOUR DISTRIBUTION SYSTEM

Event Type: Exhibit Hall Education Session	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling	Time: 10:15 AM - 10:30 AM	OVERVIEW ►
Moderator(s): Daniel Lorentz	Location: Booth 602	

TUE03 - GETTING THE LEAD OUT

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling	Time: 10:30 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Jeff Swertfeger		

TUE05 - WHAT'S IN YOUR RUNOFF?

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Water Resources: Sources, Protection & Emerging Issues	Time: 10:30 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Stephanie Ishii		

TUE09 - NITRIFICATION AND DISTRIBUTION SYSTEM MONITORING

Event Type: Professional Program Day: Tuesday, November 13, 2018 SESSION DETAILS ►
Track: Data Driven Decisions: Methods, Sensors & Monitoring Time: 10:30 AM - 12:00 PM OVERVIEW ►
Moderator(s): Meg Roberts

EHES10 - SCHEDULE ROUTINE WATER SAMPLES WITH THE HELP OF A MOBILE DEVICE

Event Type: Exhibit Hall Education Session Day: Tuesday, November 13, 2018 SESSION DETAILS ►
Track: Data Driven Decisions: Methods, Sensors & Monitoring Time: 12:30 PM - 12:45 PM OVERVIEW ►
Moderator(s): Location: Booth 516

EHES11 - OVERCOMING CHALLENGING TOTAL ORGANIC CARBON SAMPLES

Event Type: Exhibit Hall Education Session Day: Tuesday, November 13, 2018 SESSION DETAILS ►
Track: Controlling Contaminants Time: 12:45 PM - 01:00 PM OVERVIEW ►
Moderator(s): Location: Booth 314

EHES12 - AUTOMATED FLOW CYTOMETER FOR ONLINE MONITORING OF MICROBIAL CELL NUMBER IN DRINKING WATER

Event Type: Exhibit Hall Education Session Day: Tuesday, November 13, 2018 SESSION DETAILS ►
Track: Water Resources: Sources, Protection & Emerging Issues Time: 01:00 PM - 01:15 PM OVERVIEW ►
Moderator(s): Thomas Medland

STS03 - TOXIC CYANOBACTERIA DETECTION AND MANAGEMENT STRATEGIES: PROVIDING SAFE DRINKING WATER DURING BLOOMS

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ▶
Track: Microbes & Algae	Time: 01:30 PM - 05:00 PM	OVERVIEW ▶
Moderator(s): Arash Zamyadi		

STS04 - INNOVATING SOLUTIONS FOR THE SMALL AND RURAL DRINKING WATER CONCERNS

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ▶
Track: Treatment Technologies	Time: 01:30 PM - 05:00 PM	OVERVIEW ▶
Moderator(s): Madjid Mohseni		

STS05 - AUTOMATED ONLINE MONITORING OF MICROORGANISMS FROM SOURCE TO TAP: PRACTICAL APPLICATIONS TO ASSIST UTILITIES

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ▶
Track: Data Driven Decisions: Methods, Sensors & Monitoring	Time: 01:30 PM - 05:00 PM	OVERVIEW ▶
Moderator(s): Sarah Dorner		

TUE10 - SAMPLING PROCEDURE CHANGES TO IDENTIFY REAL PUBLIC HEALTH CONCERNS

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ▶
Track: Distribution Issues, Water Quality & Modeling	Time: 01:30 PM - 03:00 PM	OVERVIEW ▶
Moderator(s): Steve Price		

TUE12 - COMING AND GOING: CORROSION ISSUES

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ▶
Track: Water Resources: Sources, Protection & Emerging Issues	Time: 01:30 PM - 03:00 PM	OVERVIEW ▶

Moderator(s): Christine Owen

TUE14 - INNOVATIVE TREATMENT FOR REDUCING DBP FORMATION: PART I

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Disinfection Practices & DBPs	Time: 01:30 PM - 03:00 PM	OVERVIEW ►
Moderator(s): Randy Moore		

TUE16 - A MATTER OF METALS

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Controlling Contaminants	Time: 01:30 PM - 05:00 PM	OVERVIEW ►
Moderator(s): Caroline Russell		

TUEW01 - GETTING YOUR PAPER ACCEPTED: PITFALLS OF PEER REVIEW, BROUGHT TO YOU BY AWWA WATER SCIENCE AND WILEY

Event Type: Workshop	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track:	Time: 03:00 PM - 03:30 PM	OVERVIEW ►
Moderator(s): Ken Mercer		

TUE11 - WHY WORRY ABOUT PREMISE PLUMBING?

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
Track: Distribution Issues, Water Quality & Modeling	Time: 03:30 PM - 05:00 PM	OVERVIEW ►
Moderator(s): Steve Price		

TUE13 - FORESTRY AND WATER QUALITY

Event Type: Professional Program	Day: Tuesday, November 13, 2018	SESSION DETAILS ►
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Track: Water Resources: Sources,
Protection & Emerging Issues
Moderator(s): Christine Owen

Time: 03:30 PM - 05:00 PM

OVERVIEW ►

TUE15 - INNOVATIVE TREATMENT FOR REDUCING DBP FORMATION: PART II

Event Type: Professional Program

Day: Tuesday, November 13,
2018

SESSION DETAILS ►

Track: Disinfection Practices & DBPs
Moderator(s): Randy Moore

Time: 03:30 PM - 05:00 PM

OVERVIEW ►

Wednesday, November 14, 2018

WEDEB - UNDERSTANDING THE NDWAC LEAD AND COPPER RULE WORKING GROUP RECOMMENDATIONS: WHAT WATER SYSTEMS SHOULD KNOW

Event Type: Professional Program

Day: Wednesday, November
14, 2018

SESSION DETAILS ►

Track: Distribution Issues, Water Quality
& Modeling

Time: 07:15 AM - 08:15 AM

OVERVIEW ►

Moderator(s): Christopher Hill

STS06 - LEAD AND COPPER REGULATORY UPDATE AND RESEARCH ADVANCEMENTS IN CANADA AND THE UNITED STATES

Event Type: Professional Program

Day: Wednesday, November
14, 2018

SESSION DETAILS ►

Track: Distribution Issues, Water Quality
& Modeling

Time: 08:30 AM - 12:00 PM

OVERVIEW ►

Moderator(s): Richard Giani

WED01 - LEGIONELLA AND MYCOBACTERIA OCCURRENCE AND RISK

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ►
Track: Microbes & Algae	Time: 08:30 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Norma Ruecker		

WED02 - INNOVATIONS IN OUR WATERSHEDS

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ►
Track: Water Resources: Sources, Protection & Emerging Issues	Time: 08:30 AM - 12:00 PM	OVERVIEW ►
Moderator(s): Fernando Rosario-Ortiz		

WED03 - BIOFILTERS: DBP FORMATION, PATHOGENS, AND TASTE & ODOR

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ►
Track: Disinfection Practices & DBPs	Time: 08:30 AM - 10:00 AM	OVERVIEW ►
Moderator(s): Lynn Williams-Stephens		

WED05 - SMALL SYSTEMS RESEARCH: NOVEL TREATMENT TECHNOLOGIES

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ►
Track: Treatment Technologies	Time: 08:30 AM - 10:00 AM	OVERVIEW ►
Moderator(s): Kimberly Kunihiro		

WED07 - EMERGING CONTAMINANTS: NOVEL TREATMENT APPROACHES

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ►
Track: Controlling Contaminants	Time: 08:30 AM - 10:00 AM	OVERVIEW ►
Moderator(s): David Mazyck		

WED09 - WHAT SENSORS CAN DO FOR METAL DETECTION IN DRINKING WATER

Event Type: Professional Program Day: Wednesday, November 14, 2018 [SESSION DETAILS ▶](#)
Track: Data Driven Decisions: Methods, Sensors & Monitoring Time: 08:30 AM - 10:00 AM [OVERVIEW ▶](#)
Moderator(s): Laura Meteer

WED04 - UV VALIDATION

Event Type: Professional Program Day: Wednesday, November 14, 2018 [SESSION DETAILS ▶](#)
Track: Disinfection Practices & DBPs Time: 10:30 AM - 12:00 PM [OVERVIEW ▶](#)
Moderator(s): Bertrand Dussert

WED06 - IMPACTS OF TEMPERATURE ON BIOFILTER PERFORMANCE

Event Type: Professional Program Day: Wednesday, November 14, 2018 [SESSION DETAILS ▶](#)
Track: Treatment Technologies Time: 10:30 AM - 12:00 PM [OVERVIEW ▶](#)
Moderator(s): Greg Pope

WED08 - PARAMETERS OF POLLUTION IN POTABLE REUSE: PREDICTING AND PREVENTION

Event Type: Professional Program Day: Wednesday, November 14, 2018 [SESSION DETAILS ▶](#)
Track: Controlling Contaminants Time: 10:30 AM - 12:00 PM [OVERVIEW ▶](#)
Moderator(s): Tom Speth

WED10 - WHAT SENSORS CAN DO FOR ALGAE AND CYANOTOXIN DETECTION

Event Type: Professional Program Day: Wednesday, November 14, 2018 [SESSION DETAILS ▶](#)

Track: Data Driven Decisions: Methods,
Sensors & Monitoring Time: 10:30 AM - 12:00 PM
Moderator(s): Eric Wert

[OVERVIEW ▶](#)

STS07 - UNINTENDED CONSEQUENCES OF WATER AND ENERGY CONSERVATION MEASURES IN BUILDINGS

Event Type: Professional Program Day: Wednesday, November
14, 2018
Track: Microbes & Algae Time: 01:30 PM - 05:00 PM
Moderator(s): Michele Prevost

[SESSION DETAILS ▶](#)

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WED11 - DISTRIBUTION SYSTEM CLEANING AND MAINTENANCE FOR PUBLIC HEALTH

Event Type: Professional Program Day: Wednesday, November
14, 2018
Track: Distribution Issues, Water Quality
& Modeling Time: 01:30 PM - 05:00 PM
Moderator(s): Kira Smith

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

WED12 - CEC RESEARCH SPANNING OCCURRENCE, REMOVAL, AND HEALTH EFFECTS

Event Type: Professional Program Day: Wednesday, November
14, 2018
Track: Water Resources: Sources,
Protection & Emerging Issues Time: 01:30 PM - 03:00 PM
Moderator(s): Chance Lauderdale

[SESSION DETAILS ▶](#)

[OVERVIEW ▶](#)

WED14 - PRIMARY DISINFECTION PRACTICES

Event Type: Professional Program Day: Wednesday, November
14, 2018
Track: Disinfection Practices & DBPs Time: 01:30 PM - 03:00 PM
Moderator(s): Scott Alpert

[SESSION DETAILS ▶](#)

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WED16 - TREATMENT PLANT PERFORMANCE AND OPTIMIZATION: GETTING THE MOST OUT OF EXISTING ASSETS

Event Type: Professional Program Day: Wednesday, November 14, 2018 SESSION DETAILS ▶
Track: Treatment Technologies Time: 01:30 PM - 05:00 PM OVERVIEW ▶
Moderator(s): Nicole Blute

WED17 - FOCUSED MULTIPLE CONTAMINANT REMOVAL

Event Type: Professional Program Day: Wednesday, November 14, 2018 SESSION DETAILS ▶
Track: Controlling Contaminants Time: 01:30 PM - 03:00 PM OVERVIEW ▶
Moderator(s): Kim Gupta

WED19 - EMERGING ANALYTICAL METHODS

Event Type: Professional Program Day: Wednesday, November 14, 2018 SESSION DETAILS ▶
Track: Data Driven Decisions: Methods, Sensors & Monitoring Time: 01:30 PM - 03:00 PM OVERVIEW ▶
Moderator(s): Amlan Ghosh

WED13 - OIL AND WATER DON'T MIX!

Event Type: Professional Program Day: Wednesday, November 14, 2018 SESSION DETAILS ▶
Track: Water Resources: Sources, Protection & Emerging Issues Time: 03:30 PM - 05:00 PM OVERVIEW ▶
Moderator(s): Peter D'Adamo

WED15 - SECONDARY DISINFECTION PRACTICES

Event Type: Professional Program Day: Wednesday, November 14, 2018 SESSION DETAILS ▶
Track: Disinfection Practices & DBPs Time: 03:30 PM - 05:00 PM OVERVIEW ▶
Moderator(s): Scott Alpert

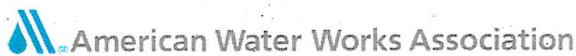
WED18 - ADVANCES IN NITRATE TREATMENT

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ▶
Track: Controlling Contaminants	Time: 03:30 PM - 05:00 PM	OVERVIEW ▶
Moderator(s): Kim Gupta		

WED20 - TASTE AND ODOR MANAGEMENT

Event Type: Professional Program	Day: Wednesday, November 14, 2018	SESSION DETAILS ▶
Track: Data Driven Decisions: Methods, Sensors & Monitoring	Time: 03:30 PM - 05:00 PM	OVERVIEW ▶
Moderator(s): Scott Willett		

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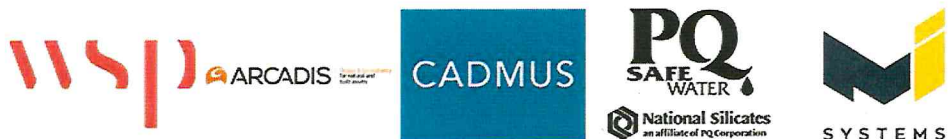
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2018 Schedule

2018 Workshops and Technical Facility Tours

WQTC workshops provide in-depth comprehensive learning opportunities. Technical facility tours offer a behind the scenes glimpse into water quality at work.

Separate fee applies - register before October 12 for best rates.

Pre-Conference Workshops

Additional workshop details are available in the [Online Program](#).

PCW01 Probing Algae Blooms: Advanced Techniques in Monitoring and Treating Cyanobacteria and Cyanotoxins

Sunday, November 11 | 8:00 a.m. - 5:00 p.m. (meet at 7:45 a.m. for bus)

\$275 early member / \$375 early nonmember

This workshop is Located at offsite laboratory setting. Price includes lunch, transportation and class supplies.

PCW02 Implementing Drinking Water Biofiltration in Cold Weather Conditions

Sunday, November 11 | 8:00 a.m. - 5:00 p.m.

\$195 early member / \$295 early nonmember

PCW03 Building Water Safety Plans & Why They're Needed: the Role of Public Water Suppliers (Classroom portion only)

Sunday, November 11 | 8:00 a.m. - noon

\$110 early member / \$210 early nonmember

PCW04 Hands-on Building Water Management Planning - CANCELLED

Please note that PCW04 has been canceled, we apologize for any inconvenience.

Additional details and agenda for all workshops above are available in the [Online Program](#).



2018 Facility Tours

Each participant must fill out a release form prior to boarding bus. Photo-ID required for each participant.

T1 - DeCew Falls Water Treatment Plant & Niagara Falls (Sunday Tour - Including "Journey Behind the Falls" and lunch)
 Sunday, November 11 | 9:00 a.m. - 4:00 p.m. (meet at 8:45 a.m. for bus)
 \$95 per person, Limited to 45 attendees



Journey Behind the Falls - Take a journey below the heart of Niagara, where the mighty Horseshoe Falls tumble from above! You'll descend 125 feet and explore 130-year-old tunnels through the bedrock, but you'll feel the Falls long before you see them. The observation deck at the foot of this wonder will leave you breathless.

The DeCew Falls WTP is the largest plant in the Niagara Region. Built in 1925, it has a rated capacity of 227 MLD. Due to the location of the plant on the Niagara Escarpment, approximately 65% of the treated water flow leaves the facility by gravity.

T2 - R.C. Harris Water Treatment Plant and Western Beaches CSO Facility

Thursday, November 15 | 8:15 a.m. - 12:15 p.m.
 \$55 per person, Limited to 20 attendees

The R.C. Harris Water Treatment Plant is Toronto's largest water treatment facility. The plant produces up to 950 millionlitres per day for Toronto and the York Region. Built in the 1930s with a capacity of 100 million gallons daily, the plant capacity was doubled in the 1950s. In 2013, they received the AWWA Water Landmark Award.



The Western Beaches storage tunnel prevents sewer overflows from going directly in Lake Ontario. Four kilometres long with three large holding tanks, the tunnel helps clean up pollution of waters in the western beaches area of the city.

T3 - Island Water Treatment Plant, John Street Pumping Station and Enwave (includes ferry ticket)

Thursday, November 15 | 8:15 a.m. - 1:00 p.m.
 \$60 per person, Limited to 35 people

The Island WTP was retrofitted in 1977 as a direct filtration facility having the ability to treat 22% of Toronto's drinking water. Treated water flows from the plant by gravity through a tunnel under the Toronto harbour to the mainland where it is pumped to different pressure districts.

In 2002, Toronto entered into a partnership with Enwave Energy Corporation in an initiative known as Deep Lake Water Cooling (DLWC). The DLWC operation produces cold, treated water, which passes through a heat exchanger system, providing a heat sink for Enwave's district energy cooling system, which air conditions commercial buildings downtown.

T4 - Peel Region Lakeview Water Treatment Plant and Gravity Membranes

Thursday, November 15 | 8:30 a.m. - noon
 \$55 per person, Limited to 20 people

The Lakeview Water Treatment Plant draws its water from Lake Ontario and is one of two treatment plants supplying drinking water to the residents and businesses in the Region of Peel. The plant is rated at 1160 ML/d and has three distinct treatment trains: one conventional and two membrane trains. Portions of the plant are also treated with ozone for primary disinfection and taste and odour control.



As part of a collaborative initiative the Region is currently pilot testing a gravity membrane system in a former conventional filter. A review of this innovative approach will be discussed during the tour.

Download the WQTC Mobile App - available in October

Before you Arrive!

- Search your App Store for 'AWWA Events'
- Download and create a User Login to customize your WQTC schedule.

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Visit the WQTC Exhibit Hall!

Interested in exhibiting or sponsoring at WQTC? Booths sales for WQTC 2018 have already begun! Please visit Exhibitor Resources for details.

The WQTC exhibit hall showcases the latest in water quality technology and services with more than 60 targeted exhibitors and dedicated exhibit hall time. Attendees will enjoy extensive networking opportunities, poster sessions, attendee luncheons, refreshment breaks, and receptions—all taking place inside the exhibit hall!

2018 Exhibitor List & Floor Plan



2017 Exhibit Hall Education Sessions

Attendees earn CEUs by attending 'Lunch N Learn' and 'Coffee & Credit Breaks'

These Exhibit Hall Education Sessions encourage attendees to visit participating exhibitors in a coordinated program to learn and earn CEUs/PDHs. Attendees will gather at participating booths at designated times for the sessions, and exhibitor representatives will each have 15 minutes to give their presentation. Exhibitors - watch your emails for instructions on how to get your chance to participate!



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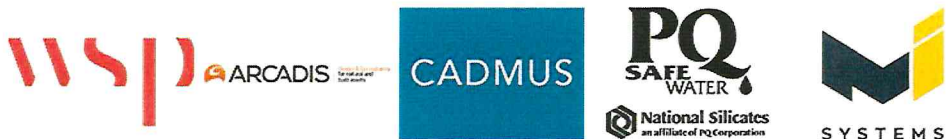
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REGISTER & HOTEL	2018 Program	Workshops & Tours	Exposition	2018 Schedule
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WQTC at-a-Glance*

Tentative 2018 Schedule - Please continue to check back for schedule updates. All 2018 events take place at the Sheraton Centre Toronto Hotel.

Sunday, November 11

7:30 a.m. - 6:00 p.m.	Registration Open
8:00 a.m. - 5:00 p.m.	Pre-Conference Workshops (additional fee)
4:00 - 6:00 p.m.	Exhibit Hall Open
4:30 - 5:00 p.m.	New Member/New Attendee Program
5:00 - 6:00 p.m.	Welcome Reception in Exhibit Hall
5:00 - 6:00 p.m.	Student Poster Session in Exhibit Hall

Monday, November 12

7:15 a.m. - 6:30 p.m.	Registration Open
8:15 - 9:30 a.m.	Opening General Session
9:30 a.m. - 1:15 p.m.	Exhibit Hall Open
9:30 - 10:15 a.m.	Coffee Break - Exhibit Hall Time
9:45 - 10:45 a.m.	Poster Session PST01
10:15 - 11:45 a.m.	Technical Sessions
11:45 a.m. - 1:15 p.m.	Luncheon
12:30 - 1:00 p.m.	Exhibit Hall Education Sessions
1:15 - 3:15 p.m.	Technical Sessions
3:00 - 6:30 p.m.	Exhibit Hall Open
3:15 - 4:00 p.m.	Break - Exhibit Hall Time
3:15 - 4:00 p.m.	Exhibit Hall Education Sessions



3:15 - 4:15 p.m.	Poster Session PST02
4:00 - 5:00 p.m.	AEESP Emerging Investigator Lecture
4:00 - 6:30 p.m.	Networking Reception in Exhibit Hall
5:30 - 6:30 p.m.	Students & YP Event in Exhibit Hall
Tuesday, November 13	
7:00 a.m. - 5:00 p.m.	Registration Open
7:15 - 8:00 a.m.	Early Bird Session
8:15 a.m. - noon	Technical Sessions
9:45 a.m. - 1:30 p.m.	Exhibit Hall Open
9:45 - 10:30 a.m.	Break - Exhibit Hall Time
9:45 - 10:30 a.m.	Exhibit Hall Education Sessions
10:00 - 11:00 a.m.	Poster Session PST03
noon - 1:30 p.m.	Luncheon
12:45 - 1:15 p.m.	Exhibit Hall Education Sessions
noon - 1:30 p.m.	Student & YP 'Lunch with the Boss'
1:30 - 5:00 p.m.	Technical Sessions
3:00 - 3:30 p.m.	TUEW Getting Your Paper Accepted (AWWA Water Science and Wiley)
6:00 - 9:00 p.m.	Tuesday Night Social sponsored by Ontario Section
Wednesday, November 14	
7:00 a.m. - 3:30 p.m.	Registration Open
7:15 - 8:15 a.m.	Early Bird Session
8:30 a.m. - noon	Technical Sessions
noon - 1:30 p.m.	Lunch Break (on your own)
1:30 - 5:00 p.m.	Technical Sessions
5:05 - 5:15 p.m.	Student Awards Ceremony
Thursday, November 15	
7:45 a.m. - 2:00 p.m.	Technical Facility Tours -times vary
*Preliminary - Subject to Change	

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MINUTES OF MEETING OF THE FINANCE COMMITTEE OF THE PALMDALE WATER DISTRICT, AUGUST 23, 2018:

A meeting of the Finance Committee of the Palmdale Water District was held Thursday, August 23, 2018, at 2029 East Avenue Q, Palmdale, California, in the Board Room of the District office. Chair Henriquez called the meeting to order at 4:30 p.m.

1) Roll Call.

Attendance:

Finance Committee:
Marco Henriquez, Chair
Robert Alvarado, Committee
Member

Others Present:

Dennis LaMoreaux, General Manager
Adam Ly, Assistant General Manager
Mike Williams, Finance Manager
Bob Egan, Financial Advisor via Skype
Dennis Hoffmeyer, Accounting Supervisor
Dawn Deans, Executive Assistant
1 member 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 amended, to consider Agenda Item No. 4.5 after Agenda Item No. 4.1.

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 July 19, 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 July 19, 2018, as written.

Chair Henriquez then stated that Agenda Item No. 4.5 will now be considered.

4.5) Presentation, Consideration, and Possible Action on Receiving and Filing of 2017 Audit. (Nigro & Nigro/Finance Manager Williams)

Mr. Peter Glenn, of Nigro & Nigro, distributed the District's final audit for the years ended December 31, 2017 and 2016 and then provided a detailed overview of the audit, their opinion letter, and their process for developing the opinion letter, which indicates there are no material differences between their physical audit versus the financial statements provided.

After a further review of the audit and of discussions regarding state revolving fund loans, 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 receive and file the 2017 Audit and that this item be presented to the full Board for consideration at the August 27, 2018 Regular Board meeting.

Chair Henriquez then stated that Agenda Item No. 4.2 will now be considered.

4.2) Discussion and Overview of Cash Flow Statement and Current Cash Balances as of June 2018. (Financial Advisor Egan)

Financial Advisor Egan reviewed the investment funds report as of June 30, 2018, including the balance decrease due to interest and taxes received and transfers to the checking account, the cash flow statement, including water sales, and the projected year-end balance and then provided a comparison of these reports between the first and second quarters.

Chair Henriquez then stated that Agenda Item No. 5.1 will now be considered.

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 July 2017 through June 2018 is 1.45 and meets the required Debt Service Coverage and that various rating agencies are impressed with the District's debt coverage ratios.

Chair Henriquez then stated that Agenda Item No. 4.3 will now be considered.

6) **Board Members' Requests for Future Agenda Items.**

There were no requests for future agenda items.

It was then determined that the next Finance Committee meeting will be held tentatively on September 20, 2018 at 4:30 p.m.

7) **Adjournment.**

There being no further business to come before the Finance Committee, the meeting was adjourned at 5:45 p.m.



Chair