



moulton niguel water district

**ADMINISTRATIVE COMMITTEE MEETING
MOULTON NIGUEL WATER DISTRICT
BOARD OF DIRECTORS**

26880 Aliso Viejo Pkwy, Suite 150, Aliso Viejo

September 2, 2020

10:00 AM

Approximate Meeting Time: 1 Hour

IN AN EFFORT TO PREVENT THE SPREAD OF COVID-19 (CORONAVIRUS), AND IN ACCORDANCE WITH THE GOVERNOR'S EXECUTIVE ORDER N-29-20, THERE WILL BE NO PUBLIC LOCATION FOR THE PUBLIC TO ATTEND THIS BOARD MEETING IN PERSON. MEMBERS OF THE PUBLIC MAY LISTEN AND PROVIDE PUBLIC COMMENT TELEPHONICALLY BY CALLING THE FOLLOWING NUMBER:

DIAL: 1-669-900-9128

MEETING ID: 895-6434-4602#

1. CALL MEETING TO ORDER
2. APPROVE THE MINUTES OF THE AUGUST 5, 2020 ADMINISTRATIVE COMMITTEE MEETING
3. PUBLIC COMMENTS
As permitted under the Brown Act, and in order to provide an equal opportunity for members of the public to provide comment without everyone talking over one another, the Board of Directors will receive all public comments, on items on or off the agenda, during the Public Comment portion of this meeting. Comments are limited to five minutes unless further time is granted by the Presiding Officer.

DISCUSSION ITEMS

4. Fiscal Year 2020-21 Meter Maintenance and Replacement Program

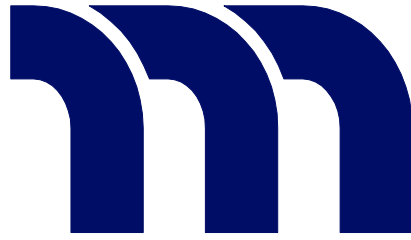
INFORMATION ITEMS

5. 5th Annual CA Water Data Summit: Solutions for Water Resiliency Recap
6. September Customer Communications Update

ADJOURNMENT

The Board of Directors' Meeting Room is wheelchair accessible. If you require any special disability related accommodations (i.e., access to an amplified sound system, etc.), please contact the Moulton Niguel Water District Secretary's office at (949) 831-2500 at least forty-eight (48) hours prior to the scheduled meeting. This agenda can be obtained in alternate format upon written request to the Moulton Niguel Water District Secretary at least forty-eight (48) hours prior to the scheduled meeting.

Agenda exhibits and other writings that are disclosable public records distributed to all, or a majority of, the members of the Moulton Niguel Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the District Office, 26880 Aliso Viejo Parkway, Suite 150, Aliso Viejo ("District Office"). If such writings are distributed to members of the Board less than seventy-two (72) hours prior to the meeting, they will be available in the reception area of the District Office at the same time as they are distributed except that, if such writings are distributed immediately prior to, or during the meeting, they will be available in the Board meeting room and on the District website at www.mnwd.com.



moulton niguel water district

DRAFT

MINUTES OF THE ADMINISTRATIVE COMMITTEE MEETING MOULTON NIGUEL WATER DISTRICT BOARD OF DIRECTORS

August 5, 2020

A Regular Meeting of the Administrative Committee of the Moulton Niguel Water District was held in accordance with the Governor’s Executive Order N-29-20 in an effort to prevent the spread of COVID-19 (Coronavirus). As a result, there was no public location for the public to attend in person. The meeting was called to order at 10:01 AM on July 9, 2020. There were present and participating at 26880 Aliso Viejo Pkwy, Suite 150, Aliso Viejo, CA:

DIRECTORS

Richard Fiore	Director
Kelly Jennings	Director
Gary Kurtz	Director (via teleconference)

Also present and participating were:

STAFF MEMBERS IN-PERSON

Matt Collings	Assistant General Manager
Paige Gulck	Board Secretary

STAFF MEMBERS, LEGAL COUNSEL, AND MEMBERS OF THE PUBLIC

Joone Lopez	General Manager
Rod Woods	Director of Engineering
Drew Atwater	Director of Finance & Water Resources
Gina Hillary	Director of Human Resources
Jose Solorio	Government Affairs Officer
Ruben Duran	Best, Best, & Krieger (General Counsel)
Tim Bonita	Recording Secretary
Trevor Agrelius	MNWD
Matt Brown	MNWD
Johnathan Cruz	MNWD
Medha Patel	MNWD

William Kidd

MNWD

1. CALL MEETING TO ORDER

The meeting was called to order by Chairmen Fiore at 10:01 a.m. Chairman Fiore stated that the meeting was being conducted by teleconference pursuant to the Brown Act waivers provided for under the Governor's Executive Orders in response to the COVID-19 State of Emergency. As stated on the agenda, there was no public location for attending the meeting in person. The agenda also stated that the public could listen and provide comment telephonically by calling the number listed on the agenda.

2. APPROVE THE MINUTES OF THE JULY 1, 2020 ADMINISTRATIVE COMMITTEE MEETING

MOTION DULY MADE BY KELLY JENNINGS AND SECONDED BY RICHARD FIORE, MINUTES OF THE JULY 1, 2020 ADMINISTRATIVE COMMITTEE MEETING WERE APPROVED AS PRESENTED. A ROLL CALL VOTE WAS TAKEN, AND THE VOTE WAS UNANIMOUS WITH DIRECTORS RICHARD FIORE, KELLY JENNINGS, AND GARY KURTZ ALL VOTING 'AYE'.

3. PUBLIC COMMENTS

Chairman Fiore stated that as permitted under the Brown Act, and in order to provide an equal opportunity for members of the public to provide comment without everyone talking over one another, public comments, on items on or off the agenda, would be taken during the Public Comment portion of the meeting. Chairman Fiore then asked if there was anyone on the phone who would like to provide comment. Hearing none, the Public Comment portion of the meeting was closed..

DISCUSSION ITEMS**4. USBR WaterSMART Grant for NatureScape & Smart Timer Programs**

Drew Atwater presented the USBR WaterSmart Grant for NatureScape & Smart Timer Programs. Discussion ensued regarding the item. The committee recommended sending this item to the Board for consideration.

INFORMATION ITEMS**5. Community Outreach Report**

Medha Patel presented the Community Outreach Report.

6. August Customer Communications Update

Medha Patel presented the August Customer Communications Update.

ADJOURNMENT

The meeting was adjourned at 10:27 a.m.

Respectfully submitted,

Tim Bonita
Recording Secretary

DRAFT



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STAFF REPORT

TO: Board of Directors **MEETING DATE:** September 2, 2020

FROM: Todd Novacek, Director of Operations
Doug Zytkevicz, Superintendent of Customer Service

SUBJECT: Fiscal Year 2020-21 Meter Maintenance and Replacement Program

SUMMARY:

Issue: Board action is required to authorize the procurement of water meters for the Fiscal Year 2020-21 Meter Maintenance and Replacement Program.

Recommendation: It is recommended that the Board of Directors authorize meter and meter-related purchases for an amount not-to-exceed \$1,300,000 for Fiscal Year 2020-21.

Fiscal Impact: Sufficient funds are included in the approved Fiscal Year 2020-21 Capital Improvement Project Budget.

Reviewed by Committee: Yes, recommended for approval at the Technical Committee Meeting on August 31, 2020.

Reviewed by Legal: Not Applicable.

BACKGROUND:

The District has 55,101 meters that provide potable and recycled water meter reading services to the District's customers. Customer Service staff maintains, repairs, and replaces these meters on a continuing basis as part of the District's meter maintenance and replacement program. A proactive program ensures customer meters are providing accurate reads, which can help inform customers of potential leak issues while minimizing any unaccounted water.

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Fiscal Year 2020-21 Meter Maintenance and Replacement Program

August 31, 2020

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Meter accuracy, particularly with the Districts' mechanical meters, degrades over time. Meters may frequently "slow down" or "Stop" resulting in lost revenue to the District. The American Water Works Association (AWWA) recommends replacement of mechanical meters from 10-20 years, depending on size, use, water quality, and other factors.

Included in the District's Fiscal Year 2020/21 Capital Improvement Program is the line item for the replacement of the District's meters.

Based on past replacement rates and experience, staff estimates approximately 2,440 water meters will need to be replaced during fiscal year 2020-21 because of maintenance-related demands. This estimate includes 800 residential meters, 250 irrigation meters, and 1,290 commercial meters. The meters proposed to be replaced are 10 to 23 years old, which is consistent with recommendations set by the American Water Works Association (AWWA) for replacement of water meters.

Meters are also sold to the public when new developments are constructed or when customers up-size their services. Approximately 100 meters are sold to the public every year. Staff does not anticipate a significant change in public meter sales in the upcoming fiscal year as there are a limited number of vacant, un-metered parcels within the District's boundary. Staff estimates 100 new meters that range in size 5/8" to 2" will be required for public meter purchases in Fiscal Year 2020-21.

Table 1 summarizes the estimated number of meters required to be purchased for Fiscal Year 2020-21.

Table 1

Meters to Be Purchased	
Residential Meter Maintenance Program	800
Irrigation	250
Commercial / Public Meter Purchases	100
Commercial 1-1/2 – 2" Meters	1,290
TOTAL	2,440

DISCUSSION:

Ultrasonic meters represent the newest generation of smaller revenue producing meters and on average have a 20-year pro-rated warranty for accuracy and battery life. Ultrasonic metering is a proven technology, and the availability of residential size ultrasonic meters has led to their National adoption.

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Advantages of ultrasonic meters include:

- No moving parts so dials do not toggle back and forth within the register, and due to the bad contacts “meters don’t get stuck” nor lose accuracy due to mechanical wear.
- Long-term guaranteed accuracy as well as consistent accuracy across all flow ranges.
- Higher resolution and the ability to read lower flow rates than mechanical meters, increasing revenue.
- Built-in ability to detect leaks, backflow, and meter tampering.

Considering the advantages of ultrasonic metering, staff eliminated any mechanical style of metering from further consideration for replacement of residential and smaller non-residential meters. District staff has utilized both Sensus and Kamstrup ultrasonic meters in the past and have found them to be easy to install, with reliable meter reads. Staff has also investigated meters available from other major manufacturers.

Table 2 below shows key elements of comparison between these functionally similar meters.

Table 2

Vendor	Sensus	Kamstrup	Neptune	Badger	Master Meter
Meter Flow Size Availability:	5/8” to 1”	5/8” to 2”	5/8 to 1”	5/8” to 2”	5/8” to 1”
Years Experience with Ultrasonic:	Since 2014	Since 1991	Since 2018	Since 2016	Since 2016
Compatible with Sensus FlexNet	Yes	Yes	Yes	No Tied to proprietary “Beacon” software	Yes
Warranty:	Prorated 20 Years	Prorated 20 Years	Prorated 20 Years	Prorated 20 Years	Prorated 20 Years

Staff compiled a list of meter specifications based on the District’s requirements for meter quality, functionality, and compatibility, and issued a Request for Quotations (RFQ) to five pre-qualified meter distributor/manufacturers that were capable of meeting the District’s specifications. Included were Aqua-Metric, the authorized territory distributor for Sensus, Badger Meter, iFlow Energy Solutions, the authorized territory distributor for Kamstrup, Ferguson Water Works, the authorized territory distributor for Neptune, and Core & Main, the authorized territory distributor for Master Meter. After

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receiving the RFQ and assessing all requirements, Badger Meter chose not to submit quotes due to Badger's unique proprietary cellular software, which conflicts with functional specification capabilities of the District's existing Sensus FlexNet AMI system. Core and Main (Master Meter) failed to meet the District specifications for the 3/4" residential meter and were above average cost for the 1-1/2" water meters.

Table 3

Size & Type	3/4-Inch Residential Meter	1-Inch Residential Meter	1 1/2-Inch Commercial Meter	2-inch Commercial Meter	Irrigation Meters
iFlow Energy Solutions (Kamstrup)	\$166.50 (brass)	\$232.53 (brass)	\$476.15 (stainless)	\$636.35 (stainless)	\$636.35 (stainless)
Aqua-Metric (Sensus)	\$127.65 (Composite)	\$156.09 (Composite)	\$420.21 (Ductile)	\$589.59 (Ductile)	\$589.59 (Ductile)
Ferguson (Neptune)	\$161.00 (brass)	\$172.00 (brass)	\$430.00 (brass)	\$460.00 (brass)	\$460.00 (brass)
Core & Main (Master Meter)	No Bid Pricing	\$184.64 (bronze)	\$909.19 (bronze)	\$540.16 (bronze)	\$540.16 (bronze)

(Prices do not include 6.75% Sales Tax)

The recommendation for meter purchases 3/4" through 1" residential meters, staff is advising to split the purchase between Aqua Metric (Sensus) and iFlow Energy Systems (Kamstrup). The District has had good success with the Sensus iPerl meter, and it continues to provide good performance and value. However, the Kamstrup meter provides unique qualities that are not found in the Sensus meters. Kamstrup meters include state-of-the-art-acoustic leak detection, bronze meter spuds for added strength and durability, a lower register height, which is essential for high meter settings, the smaller sized meter allows for more room in the meter box for the AMI radio installation.

The 1 1/2-inch and 2-inch meters and parts from iFlowEnergy Solutions (Kamstrup) is recommended for commercial applications. These Kamstrup meters can read water consumption at very low flow, which are often encountered in commercial applications. The 1 1/2-inch and 2-inch irrigation meters are recommended to remain the Sensus meters from Aqua-Metric. Each of these manufacturers meet or exceed the latest AWWA standards for meter requirements and are all compatible with the District's Advanced Meter Infrastructure (AMI) program. Staff's meter purchase recommendation for Fiscal Year 2020-21 is detailed in Table 4.

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Table 4

Meter Purchase Recommendations			
Description	Supplier	Estimated Quantity	Estimated Cost
Commercial Meter Replacement	iFlow Energy Solutions (1-½ " and 2")	1,290	\$820,891.50
Residential Meter Maintenance	iFlow Energy Solutions	400 (300 /3/4") (100 /1")	\$73,203.00
Residential Meter Maintenance	Aqua-Metric	400 (300 /3/4") (100 /1")	\$53,904.00
Irrigation Meter Replacement	Aqua-Metric	250	\$147,422.50
New meter sales	Aqua-Metric / iFlow Energy Solutions	100 (25 ea. Size)	\$37,789.00
Miscellaneous Parts and Equipment, including 14 handheld devices, 2-8" meters for residential townhome community, and the Sensus Ally meters for pilot testing.			\$166,790.00
TOTAL			\$1,300,000

The proposed authorization also includes the procurement of several miscellaneous meters and meter-related equipment. District staff is proposing to replace the existing meter reading and programming handheld devices. These devices are used in the daily activities of reading residential meter routes and programming AMI meters. Included in this year's budget, staff has also identified multiple large commercial meter settings that are due for replacement this year. These settings include two 8" Fireline commercial meters that service an existing 161 multi-family development that are 20 years old. In addition to commercial meter replacement program there exist large irrigation meters that need to be replaced.

District staff is proposing a pilot test using the latest technology in residential meters, known as the Sensus Ally meter. The Sensus Ally water meter is groundbreaking technology that sets a new standard in water distribution system management. This residential smart water meter features an integrated, three-state remote service valve for remote shut off, turn on and reduced flow. The Ally meter also has pressure and temperature sensors and alarms. The pilot test using the Ally meter will help to demonstrate the opportunities for utilizing this meter in other applications within the District's distribution system.



moulton niguel water district

*5th Annual CA Water Data Summit:
Solutions For Water Resiliency Recap*

Administrative Committee Meeting
September 2, 2020

5TH ANNUAL CA WATER DATA SUMMIT
&
WATER SOLUTIONS 5

SOLUTIONS FOR WATER RESILIENCY



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PRESENTED BY

CALIFORNIA
DATA
COLLABORATIVE



SUSTAIN
SOUTHERN CALIFORNIA

August 20 & 21, 2020

#2020SFWR #SolutionsForWaterResiliency

5TH ANNUAL CA WATER DATA SUMMIT & WATER SOLUTIONS 5

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Jose Solorio



Fiona Ma, California State Treasurer, CPA

DATA
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SUSTAIN
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#5.



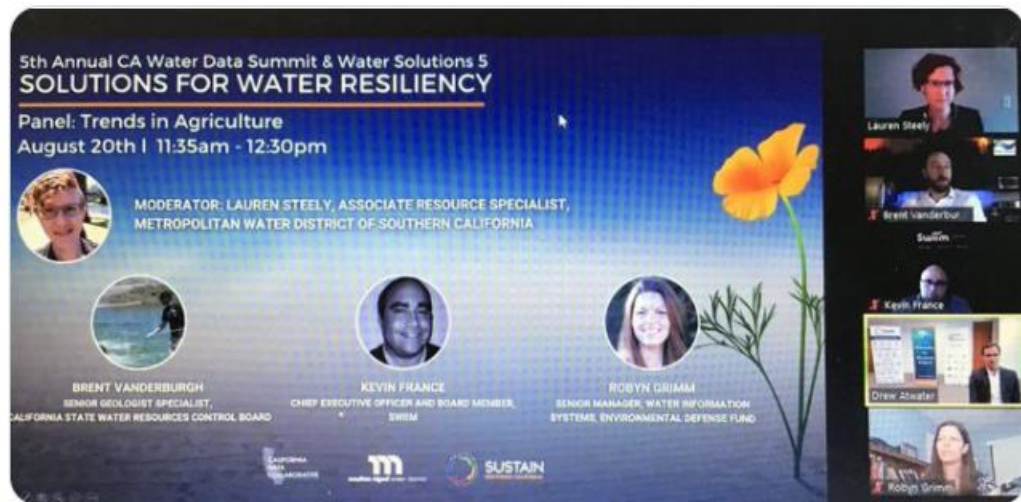
Amanda Fencl, PhD @alfencl · Aug 20

Its likely a sign of the times, but I'm feeling oddly competitive about the [#SolutionsForWaterResiliency](#) happy hour trivia game.



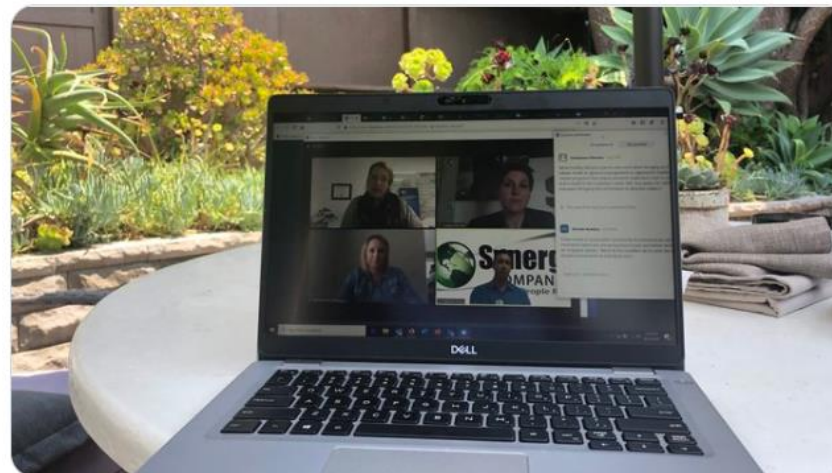
MWD of SoCal @mwdh2o · Aug 20

Happy to participate in several panels at the [#2020SFWR](#) [#SolutionsForWaterResiliency](#), including one on ag, moderated by MWD's [@MadreDeZanjas](#). Panelists emphasized that partnerships between urban & ag agencies are an increasingly important part of how we manage water in the west.



Teresa Penunuri @waterinsd · Aug 21

While i May miss the networking, attending a conference like this doesn't suck -and [@tialebherz](#) i saw no drooping! 🙌 [@SustainSoCal](#) [#2020SFWR](#)



Amir Cahn @AmirCahn · Aug 18

I'm proud to provide a keynote at the CA Data Virtual Summit (Aug 20-21). I'll be speaking about "Digital Transformation - Let IT Flow" on Aug. 21st. To register, please visit: bit.ly/SFWR-Registrat... [@cadc_io](#) [@MNWDWater](#) [@SustainSoCal](#) [#SolutionsForWaterResiliency](#) [#2020SFWR](#)



5th Annual CA Water Data Summit & Water Solutions 5

SOLUTIONS FOR WATER RESILIENCY

Panel: Building The California Water Data Consortium
August 20th | 10:35am - 11:30am



MODERATOR: MEREDITH LEE, EXECUTIVE DIRECTOR,
WEST BIG DATA INNOVATION HUB



KAMYAR GUIVETCHI
MANAGER DIVISION OF PLANNING,
CALIFORNIA DEPARTMENT OF WATER RESOURCES



JOONE LOPEZ
GENERAL MANAGER,
MOULTON NIGUEL WATER DISTRICT



TARA MORAN
CHIEF EXECUTIVE OFFICER,
CALIFORNIA WATER DATA CONSORTIUM



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By the Numbers:

- 15 panels
- Nearly 50 speakers
- 200+ attendees Day 1
- 150+ attendees Day 2

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Next Steps:

- Publish recordings
- Feedback from attendees





moulton niguel water district

September Customer Communications Update

Administrative Committee Meeting
September 2, 2020

Virtual Programs & Online Resources



Check Out Our Virtual Programs & Online Resources

CONNECT WITH MOULTON NIGUEL



24/7 Phone Number:
(949) 831-2500



Email:
customerservice@mnwd.com



Board Meetings:
mnwd.com/boardmeetings



Social Media:
@MNWDWater on Facebook, Nextdoor, Twitter, LinkedIn, and YouTube



Customer Portal:
mywater.mnwd.com



Website:
mnwd.com



HOME SAVINGS SURVEYS:

We would still like the opportunity to help you reduce your overall water bill and ensure that you don't have any issues at your property that could be causing high bills. Through our adapted Home Savings Surveys Program, customers can schedule a video chat appointment directly with one of our water efficiency experts or view our online troubleshooting guide to identify where you might have a leak or other unintended use of water.

More info: **mnwd.com/homesavingsurvey**

LANDSCAPE CLASSES:

We are hosting virtual landscape workshops to help customers reimagine their outdoor landscape and transform thirsty lawns into beautiful, California native landscapes. Our virtual landscape workshops are interactive and informative, with a focus on landscapes that are sustainable to our Orange County climate.

Check out our upcoming schedule: **mnwd.com/landscapeclasses**



What's Next?

- Continued Offering of Online Services, Including Phone Conversations and Video Chat
- Host Online Community Forum
- Customer Communications Survey Findings



