



*Dedicated to
Satisfying our Community's
Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, October 18, 2016
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Special Board Meeting**

**ENGINEERING AND OPERATIONS COMMITTEE MEETING
Tuesday, October 18, 2016 at 3:30 p.m.**

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

Non-Agendized Matters: Members of the public are invited to address the Board on matters which are not on the Agenda. Each speaker is limited to three (3) minutes. The Board will set aside thirty (30) minutes for public comments.

Agendized Matters: Members of the public may comment on Agenda items before action is taken, or after the Board has discussed the item. Each speaker is limited to five (5) minutes.

CONSENT CALENDAR ITEMS:

Approve all matters under the Consent Calendar by one motion unless a Board member, staff, or a member of the public requests a separate action.

1. Developer Project Status Report
2. Mesa Water® and Other Agency Projects Status Report
3. Water Quality Call Report
4. Committee Policy & Resolution Review or Development
5. Water Operations Status Report
6. Municipal Water District of Orange County Activities Update
7. Orange County Water District Activities Update

PRESENTATION AND DISCUSSION ITEMS:

Items recommended for approval at this meeting may be agendized for approval at a future Board meeting.

None

ACTION ITEMS:

None

REPORTS:

8. Report of the General Manager
9. Directors' Reports and Comments



INFORMATION ITEMS:

None

In compliance with California law and the Americans with Disabilities Act, if you need disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 631-1206. Notification 48 hours prior to the meeting will enable Mesa Water District (Mesa Water®) to make reasonable arrangements to accommodate your requests.

Agenda materials that are public records, which have been distributed to a majority of the Mesa Water Board of Directors (Board), will be available for public inspection at the District Boardroom, 1965 Placentia Avenue, Costa Mesa, CA and on Mesa Water's website at www.MesaWater.org. If materials are distributed to the Board less than 72 hours prior or during the meeting, the materials will be available at the time of the meeting.

ADJOURNMENT

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2065	1677 Superior	Tract Homes	<p>New plans received 2/27/14. Plans have been routed to other departments for plan review 3/11/14. Field investigation completed 3/17/14. Plans reviewed and sent for revisions 3/20/14. Mylars received, fees paid, and plans signed 5/5/14. Abandonment done and installed 800' pipe 6/30/14. Board accepted easement on 7/10/14 and meters set. Tested water line and tied into system on 7/28/14. Installed 18 - 1" meters on 11/20/14. Installed 6 - 1" meters on 6/5/15. Phased development project - Construction and inspections in progress. Installed 12 - 1" meters on 1/28/16. Inspector completed a site visit to check status on 4/20/16. Installed 4 - 1" meters on 5/12/16. Meter boxes installed on 10/4/16. (10/7/16)</p>
MC 2126	573 Victoria	37 New Homes	<p>Plans received and plan check fees paid 10/7/14. Design of improvements found not to be satisfactory, and a meeting was held on 10/23/14 to discuss design alternatives. New meeting held on 2/6/15. Awaiting revised plans from developer. Revised plans submitted 4/6/15. Plans sent back for second revision 4/7/15. Plans sent back for third revision 7/17/15. Plans currently in fourth plan check 7/30/15. Plans approved and permit issued on 8/20/15. Hot-tap and service abandonment on 10/20/15. Pipeline installation ongoing 10/22/15. Pipeline pressure tested on 11/23/15. Bac-T testing completed on 11/30/15 & 12/1/15. Mainline turned on 12/25/15. Meter boxes installed and angle-stops locked on 1/19/15. Services lowered on 6/30/16 in preparation of meter installation. Meter box placement for model homes on 7/13/16. (10/7/16)</p>
MC 2134	2026 Placentia	15 New Homes	<p>Plans received and fees paid on 10/30/14. Plans reviewed on 10/30/14 and circulated for Dept. signatures. Plan check comments issued to Engineer on 11/13/14. Received revised plans 1/6/14. Plan check completed and permit issued 2/9/15. PreCon meeting held 2/11/15. Inspection ongoing as work progresses. Main hot-tap performed on 5/5/15. Services installed by contractor on 5/7/15. 16 - 1 inch meters installed and locked on 7/6/15. Inspector checked status of the project on 12/2/15. Backflow tested on two model units on 2/25/16. Backflow tested on 8 units on 4/5/16. Inspector checked progress on phased project on 7/13/16. (10/7/16)</p>

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2149	1620-1644 Whittier Ave and 970 16th St	89 Single Family Homes	Plans received and plan check fees paid 2/2/14. Working with developer to receive more information about the floor plans and irrigation as of 2/3/15. Hydraulic model is being performed by RBF. Conceptual Plan Check Completed and returned to customer 4/20/15. Second plan check returned to customer on 5/1/15. Third plan check returned to customer on 5/21/15. Permit issued on 7/23/15. Pre-con meeting held on 7/27/15. Pipeline installation on 10/21/15. Pressure test and chlorination on 11/5/15. Bac-T testing completed on 11/24/15 and 11/25/15. Waterline tied-in at Whittier, Newhall, and West 16th Street and angle-stops locked on 12/14/15. 4 - 1" meters installed on model homes on 2/25/16. 1 - 1.5" irrigation meter and 1 - 1" domestic meter installed and locked on 4/5/16. Inspected rock base on 7/11/16. Installed 7 - 1" meters on 7/13/16. Flow-thrus tested on 8/25/16 and 9/8/16. (10/7/16)
MC 2165	341 16th Place	2 Single Family Homes	Plans received and plan check fees paid 4/22/15. First plan check completed and returned to developer 4/30/15. Mylars received on 8/6/15. Permit issued on 8/13/15. Installed 1 - 1" service on 9/28/15. Installed 2 - 1" meters on 10/1/15. Second home in process of being built. Checked progress with owner on 7/18/16. (10/7/16)
MC 2168	650 Hamilton	24 Single Family Homes	Plans received and plan check fees paid 4/30/15. Comments returned on 5/21/15. Permit issued on 6/16/15. Fireline installed and turned on 9/29/15. Meters and boxes installed and locked on 1/21/16. Irrigation backflow tested and flow-thru system on models tested 3/31/16. Flow-thru tested for 6 units on 7/11/16. Flow-thru tested for 7 units on 7/26/16. Flow-thru tested for 7 units on 9/28/16. (10/7/16)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2177	125 East Baker Street	240 Unit Apartment Complex	<p>Concept plans received and plan check fees paid on 6/11/15. First plan check comments returned on 7/31/15. Second plan check returned on 8/20/15. Third plan check submitted on 10/8/15. Additional information provided on 10/28/15. Hydraulic model initiated on 11/5/15. Additional information requested on 12/28/15 and information was provided on 1/4/16. Hydraulic model completed on 3/1/16. Adjacent supporting Mesa Water system improvements are not required. Revised plans submitted on 4/6/16. Final mylars and payment received and permit issued on 5/4/16. Permit issued on 5/10/16. Precon held on 5/24/16. Abandoned water connections on 6/28/16. Installed hydrant, domestic, and fireline tap on 7/7/16. Abandoned 2 services on 7/27/16. Installed 1 fire hydrant on 8/1/16. Pipeline lateral installed on 10/5/16. (10/7/16)</p>
MC 2187	2245 Tustin Ave	Single Family Home	<p>Plans received and plan check fees paid on 7/8/15. Second plan check submitted on 7/31/15 and comments returned on 8/17/15. Fees paid on 3/1/16. Permit issued on 3/11/16. Meter installed on 8/26/16. (10/7/16)</p>
MC 2196	580 Anton Ave	250 Unit Apartment Complex	<p>Plans received and plan check fees paid on 7/28/15. Plan check comments returned 8/28/15, requesting information to complete a hydraulic model. Requested information provided on 10/25/15. Hydraulic model initiated on 11/5/15. Hydraulic model completed on 2/1/16. Mesa Water system improvements are not required. Fees paid and permit issued on 2/9/16. Pre-con held on 2/29/16. Abandoned waterline on 3/15/16. Shutdown test on 7/19/16. Valve replaced on 10/3/16 to allow for abandonment. (10/7/16)</p>
MC 2202	2880 Mesa Verde Drive East	10 Single Family Homes	<p>Plans received and plan check fees paid on 8/19/15. First submittal returned on 9/11/15. Second submittal received 10/29/15 and returned on 11/6/15. Permit issued on 12/10/15. 6" manifold installed on 1/19/16. Services installed on 1/20/16. 10 - 1" meters and 1 - 5/8" meter installed and locked on 1/28/16. Flow-thru test on 6/13/16 failed, contractor to reconfigure plumbing system. Model home flow-thru test on 7/10/16. (10/7/16)</p>

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2203	1239 Victoria Street	28 Single Family Homes	Plans received and plan check fees paid on 8/25/15. Second submittal received on 10/25/15 and returned on 11/6/15. Mylars and fees delivered on 11/25/15. Permit issued on 11/30/15. Pre-con held on 1/4/2016. Installed 2 - 8" manifolds on 1/14/16. Installed services on 1/28/16. Abandoned existing services on 1/29/16. 28 - 1" meters installed and locked on 2/22/16. Backflows tested on 6/20/16. Flow-thru tested on model homes on 7/20/16. Backflows tested on 8/18/16. (10/7/16)
MC 2204	1672 Placentia	31 Single Family Homes	Plans received and plan check fees paid on 8/26/15. Plan check picked up by customer on 10/6/15. Second plan check submitted on 2/11/16 and returned on 2/26/16. Mylars submitted, fees paid, and permit issued on 5/5/16. Tee cut-ins on 6/22/16. Pressure Test and Bac-T test on 7/7/16. Water main turned on on 7/21/16. Services installed and locked off on 9/6/16. (10/7/16)
MC 2206	247 E 23rd St	Single Family Home	Plans received and plan check fees paid on 9/21/15. Plans did not require changes. Fees paid on 11/25/15. Permit issued on 12/1/15. Pre-con held on 1/27/16. 1 - 1" meter installed on 2/4/16. Property owner contacted to check project status on 8/3/16. (9/9/16)
MC 2208	353 & 355 Rochester St.	2 Single Family Homes	Plans received and plan check fees paid on 9/22/15. First submittal picked up on 10/23/15. Second plan check submitted on 11/19/15. Second plan check completed 12/3/16. Second plan check picked up from counter on 2/29/16. Third plan check submitted on 3/14/16, awaiting pick-up at the plan check desk. Property owner contacted to check project status on 10/4/16. (10/7/16)
MC 2212	1499 Monrovia Ave	Fireline installation	Plans received and plan check fees paid on 9/29/15. First submittal picked up on 10/23/15. Second plan check submitted on 10/29/15. Second plan check returned on 11/13/15. Mylars delivered on 11/23/15. Fees paid and permit issued on 12/13/15. Checked status on 7/13/16, no work apparent. Project delayed until end of the calendar year. (10/7/16)
MC 2214	1944 Church St	2 Single Family Homes	Plans received and plan check fees paid on 10/5/15. First submittal returned on 10/26/15. Fees paid on 12/15/15. Final mylars and payment received and permit issued on 1/29/16. Water services installed on 8/23/16. 2 - 1 inch water meters installed on 8/26/16. (10/7/16)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2215	119 Cecil Pl	3 Single Family Homes	Plans received and plan check fees paid on 10/5/15. First submittal returned on 10/26/15. Fees paid on 12/15/15. Final mylars and payment received and permit issued on 1/29/16. Attended pre-con meeting on 9/1/16. 3 - 1 inch meters and meter boxes installed on 9/29/16. (10/7/16)
MC 2216	320 E 18th St	4 Single Family Homes	Plans received and plan check fees paid on 10/5/15. First submittal returned on 10/26/15. Fees paid on 12/15/15. Permit issued on 1/29/16. Owner contacted on 7/11/16, work has not yet begun. (10/7/16)
MC 2224	286-288 15th Street	2 Single Family Homes	Plans received and plan check fees paid on 11/18/15. Plans were determined to be incomplete and additional information was requested on 11/19/15 and provided on 12/28/15. First plan check returned on 12/30/15. Second plan check submitted on 1/25/16. Second plan returned on 2/24/16. Owner contacted on 7/11/16 and 9/7/16, drawing amendments are still in progress. (10/7/16)
MC 2225	215 Knox Place	2 Single Family Homes	Plans received and plan check fees paid on 11/18/15. Plans were determined to be incomplete and additional information was requested on 11/19/15 and provided on 12/28/15. First plan check returned on 12/30/15. Second plan check submitted on 1/25/16. Second plan check returned on 2/12/16. Owner contacted on 7/11/16 and 9/7/16, drawing amendments are still in progress. (10/7/16)
MC 2230	217 Cabrillo	2 Attached Dwellings	Plans received and plan check fees paid on 12/22/15. Plan check in progress. First plan check returned on 1/25/16. Second plan check submitted on 1/26/16. Second plan check returned on 2/2/16. Fees paid and permit issued on 3/11/16. Precon held on 5/24/16. Meter and box installed on 6/8/16. (10/7/16)
MC2232	189-191 Merrill Place	2 Single Family Homes	Plans received and plan check fees paid on 2/1/16. Plan check completed on 2/12/16 and picked up on 2/29/16. Second plan check received on 3/10/16. Awaiting Mylar drawings and fee payment. Owner contacted on 10/5/16 for project status. (10/7/16)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC2233	1560 Placentia	81 Single Family Homes	Plans received and plan check fees paid on 1/20/16. Request for additional information requested on 1/28/16. Requested information submitted on 2/24/16. Plan check picked up on 4/18/16. Second plan check submitted on 5/18/16. Mylar drawings and fee payment received on 7/5/16. Permit issued on 7/11/16. Mainline installed on 8/24/16. Hydrant laterals installed on 8/25/16. Services installed on 9/1/16. Mainline installed on 9/20/16. Pressure and Bac-T test on 9/28/16. Laterals installed on 9/29/16 and 10/5/16. (10/7/16)
MC2235	671 W 17th Street	177 Condos	Plans received and plan check fees paid on 1/21/16. Hydraulic model initiated 2/24/16. Second plan check submitted on 3/24/16 and picked up 4/17/16. Mylar drawings and fee payment received on 7/5/16. Permit issued on 7/11/16. Demolition of existing services on 8/16/16. (10/7/16)
MC2236	527-531 Bernard Street	10 Single Family Homes	Plans received and plan check fees paid on 2/8/16. Plan check returned on 2/12/16. Second plan check received on 4/21/16. Fees paid and permit issued on 6/13/16. Manifold installed on 7/19/16. (10/7/16)
MC2237	2245 Santa Ana Avenue	Meter Upgrade	Plans received and plan check fees paid on 2/29/16. Plan check completed 3/24/16. Fee paid and permit issued on 5/16/16. (10/7/16)
MC2240	222 E 15th Street	Meter Upgrade	Plans received and plan check fees paid on 3/25/16. Plan check picked up on 4/20/16. Fee paid and permit issued on 5/10/16. Meter installed on 6/13/16 (10/7/16)
MC2243	165-171 22nd Street	2 Single Family Homes	Plans received and plan check fees paid on 4/20/16. Plan check picked up on 5/17/16. Awaiting final submittal and fee payment. Owner contacted on 10/5/16 for project status. (10/7/16)
MC2245	522-526 Bernard Street	10 Single Family Homes	Plans received and plan check fees paid on 5/11/16. Second plan check received on 6/10/16. Second plan check returned on 6/22/16. Permit issued on 7/11/16. Manifold installed on 7/19/16. (10/7/16)
MC2247	1808-1810 Pomona Ave	2 Single Family Homes	Plans received and plan check fees paid on 5/20/16. Second plan check received on 6/23/16. Second plan check returned on 7/11/16. Fees paid and permit issued on 7/28/16. (9/9/16)
MC2252	1100 South Bristol Street	Ganahl Lumber	Plans received and plan check fees paid on 6/1/16. Awaiting pick up at plan check desk. Hydrant flow test completed on 9/7/16. (10/7/16)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C002-16-01	167 Magnolia	2 Single Family Homes	Plans received and plan check fees paid on 6/23/16. Resubmittal received on 7/28/16. Fees paid and permit issued on 8/26/16. Attended pre-con on 9/1/16. (10/7/16)
C003-16-01	788 Center Street	2 Single Family Homes	Plans received and plan check fees paid on 6/28/16. Plans returned on 7/14/16. Awaiting resubmittal. (10/7/16)
C004-16-01	2073-2080 Tablelands Way	8 Single Family Homes	Plans received and plan check fees paid on 6/23/16. Resubmittal received on 7/29/16. Fees paid and permit issued on 8/24/16. (10/7/16)
C0005-17-01	22nd and Santa Ana	12 Single Family Homes	Plans received and plan check fees paid on 7/22/16. Plans returned on 8/3/16. Fees paid and permit issued on 9/28/16. (10/7/16)
C0006-17-01	155 Flower Street	2 Single Family Homes	Plans received and plan check fees paid on 8/1/16. Plans returned on 8/11/16. Fees paid and permit issued on 9/22/16. (10/7/16)
C0006-17-02	163 Flower Street	2 Single Family Homes	Plans received and plan check fees paid on 8/1/16. Plans returned on 8/11/16. Fees paid and permit issued on 9/22/16. (10/7/16)
C0007-17-01	1620 Orange	2 Single Family Homes	Plans received and plan check fees paid on 8/10/16. Plans waiting to be picked up. (10/7/16)
C0008-17-01	410 Walnut Place	4 Single Family Homes	Plans received and plan check fees paid on 8/10/16. Plans returned on 8/24/16. Awaiting resubmittal. (10/7/16)
C0010-17-01	1053 W. Wilson	2 Single Family Homes	Plans received and plan check fees paid on 8/30/16. Plans picked up on 10/4/16. (10/7/16)
C0011-17-01	527 Anton	Fire Hydrant Relocation	Plans received and plan check fees paid on 9/8/16. Plans waiting to be picked up. (10/7/16)
C0012-17-01	2300 Harbor Blvd	33 Detached Condos	Plans received and plan check fees paid on 9/15/16. Plans waiting to be picked up. (10/7/16)
C0013-17-01	2803 Royal Palm Drive	Fire Station	Plans received and plan check fees paid on 8/25/16. Plans picked up on 10/4/16. (10/7/16)
TBD	929 Baker Street	55 Detached Condos	Plans received and plan check fees paid on 9/27/16. Plan check in progress. (10/7/16)
TBD	1951 Tustin	2 Single Family Homes	Plans received and plan check fees paid on 10/4/16. Plan check in progress. (10/7/16)

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: MWRFF Finished Water Quality Polishing Project

File No.: MC 2039

Description: Enhance finished water quality at the MWRFF via Pilot Scale test

Status: Technical memo completed 4/13. Initiated bench test on 6/24/13. Draft bench test report received 8/5/13. Next steps are to refine dosing, perform a full-scale pilot test, and estimate design and construction costs. Notice to proceed on pilot test design given on 9/17/13. Full scale pilot test plan submitted to CDPH for approval 10/15/13. CDPH approved the plan 11/7/13. Carollo Engineers finalized construction plans and conducted pre-bid meeting 11/26/2013. Bids are due 12/12/13. Only one bid received. Carollo requested bids from additional contractors. Second bid received on 1/8/14. J.R. Filanc Construction, Inc. lowest bidder. Project kick off meeting took place on 2/24/14. Installation of the SBS Addition System is to be completed 3/14/2014. The Full Scale Pilot Start Up and testing started on March 19, 2014 and completed May 27, 2014. Report to be submitted on 7/3/2014. Meeting with Trussell Technologies to discuss staff comments held on 7/30/14. Meeting to review next phase recommendations held on 8/19/14. Revised Draft Final Report submitted August 27, 2014. Staff reviewed the Report and provided comments. The re-revised Draft Report submitted 10/9/14. Staff reviewed the report and recommended for approval continued operations of the full-scale polishing pilot until a permanent full-scale system can be implemented (E&O Committee meeting 10/21/14). Request for extension of the operation of the MWRFF Water Polishing Project pilot testing past December 4, 2014 granted by DDW on November 11, 2014. Developing RFP for design of the permanent SBS addition system (2/6/15). RFP distributed 2/27/15 and proposals received 3/26/15. Selection interviews held on 4/9/15. Team Carollo/Trussell is proposed for the project. Proposal approved by E&O Committee 4/21/2015 and Board 5/14/2015. Contract with Carollo finalized 6/12/15 and the kickoff meeting held on 6/17/15. Preliminary Design Report received 8/3/15. Progress meeting and conference call with Carollo to discuss the review comments was held on 8/25/15 and 10/1/15, respectively. 60% design package submitted on 10/28/15. Review comments sent to Carollo on 11/23/15. Meeting with Carollo to discuss water chemistry and chemical dosing systems at the MWRFF held on December 7, 2015. 90% design submitted on 2/1/16. Staff reviewed the submittal, provided comments and discussed the comments and project requirements at the meeting held on 3/2/16. Design completed on 4/1/16. Project sent out to bid on 4/4/2016. Two bids received on 5/4/16. Staff recommended that the Board of Directors award a contract to the lowest bidder J.R. Filanc. E & O Committee recommended approval on 5/17/16. Board approved the project on 6/9/16. Kick-off meeting held on 6/28/16. Construction activities began at the MWRFF on 9/21/16 with demolishing for the SBS Tank pad and trenching for new piping. Project in progress (10/6/16).

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: OC-44 Replacement and Rehabilitation Evaluation and Cathodic Protection Study

File No.: MC 2034

Description: Evaluate potential repair and replacement options

Status: Contract awarded to RBF Consulting 2/12/13. Kick-off meeting held on 2/21/13. TM 1, 2 and 3 reviewed by Mesa Water® and City of Huntington Beach. Revised TM 1 and 3 submitted 6/12/13. Final study report due 7/31/13. Staff requested RBF to perform hydraulic modeling and habitat assessment to supplement original SOW. A meeting with MWDOC, MET and RBF to analyze possible new service connections on the OC Feeder held on 6/25/13. Workshop to discuss TM's held on 7/2/13. Meeting to discuss PDR, permitting, work plan and design concerns held on 7/16/13. Draft PDR and final design scope proposal received 8/6/13. Hydraulic studies "Evaluation of MWD Water Supply Facilities" and "Analysis of Emergency Supply from OC-44 and OCF" received 8/8/13. Staff reviewed the PDR and Hydraulic Study reports and submitted comments to RBF 9/12/13. Received proposal for design of OC-44 Pipeline Rehabilitation Project 9/24/13. Proposal approved by E&O Committee 11/19/13 and by Board on 12/12/13. Staff prepared change order to RBF. Kick-off meeting held on 01/22/14. Project on progress. Outreach coordination meetings with project stakeholders took place on 2/14/2014. RBF is working with City of Newport Beach, County of Orange, and Irvine Company on receiving permits for surveying and geotechnical boring work. Orange County Health Care Permit issued 3/24/2014. Geotechnical boring conducted on 3/28/14. The county of Orange permit was issued April 7, 2014. Biological and Topographic Survey started in mid-April and will continue through the end of July. Scour analysis completed on May 29, 2014. Jurisdictional Delineation completed on 6/30/2014. Project progress meeting with RBF and City of Huntington Beach held on 7/2/14 to review environmental assessment and pre-design requirements. The design of the pipeline rehabilitation started on 7/8/2014. 60% plans and specifications submitted for review 9/8/2014. Staff is coordinating with City of Huntington Beach and finalizing review of the design package. Initial Study and Mitigated Negative Declaration submitted 11/2/14. Staff is reviewing the submittal (11/6/14). 60% review meeting with City of Huntington Beach and RBF held on 12/1/14. 90% design submittal received on 2/5/15. Notice of Intent (NOI) posted at County Clerk and State Clearinghouse on 1/29/15. Initial Study/Mitigated Negative Declaration (IS/MND) posted on Mesa Water® website and distributed to agencies/parties identified on distribution list on 1/29/15. Permit applications submitted to the regulatory agencies, legal notice posted in the Daily Pilot, and hard copy of IS/MND posted at front counter on 1/29/15 for public review. The review period concluded 2/27/15. Three comment letters received. Prepared written responses to the comments and held public hearing at the Board Meeting on 4/9/15. 90% design submittal comments sent back to RBF on 3/26/15. Additional questions from RBF analyzed in coordination with the City of Huntington Beach and comments provided to RBF on 6/1/15. Progress meeting with RBF and City of Huntington Beach

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

held 7/1/15. RBF is working with the regulatory agencies on obtaining encroachment permits and/or certifications. On 7/16/15 the consultant is scheduled to meet with the US Army Corps of Engineers (USACE) to discuss initial comments and obtain additional directions. Due to USACE staff shortage the permit is anticipated to be issued in March 2016. RBF is working with Regional Water Quality Control Board (RWQCB) on drafting the 401 Water Quality Certification for the project. The 401 Water Quality Certification was issued on 9/29/15. Comments to the California Department of Fish and Wildlife (CDFW) draft agreement were sent by RBF on 7/17/15. The CDFW permit is predicted to be issued in late October, 2015. In mid-June, 2015 RBF provided response to the California Coastal Commission's (CCC) comments. The comments from CCC were received in the late July, 2015 and the permit is expected to be issued in mid-November, 2015. Permit from Caltrans obtained on August 17, 2015. 100% design package submitted on 7/21/15. Scour protection evaluation and recommendations submitted on 11/5/15. The CDFW should be issued by 12/18/15. The USACE has indicated that their permit should be issued in mid-January 2016. The Habitat Mitigation and Monitoring Plan (HMMP) has been updated by Michael Baker (former RBF) to reflect the USACE's process and submitted to Mesa Water® for review on 1/8/16. Once the HMMP is revised and approved (1/19/16) it will be forward to all agencies, including Coastal Commission. Draft 1602 Streambed Permit obtained on 12/18/15. Final 1602 Streambed Permit pending CDFW will be issued while HMMP is accepted. U.S. Army Corps of Engineers' 404 permit received on 2/10/16. Revised HMMP sent to CCC for review and approval. Project is pending CCC's approval at an upcoming hearing. On 2/29/16 a meeting with Fletcher Jones Motorcars, City of Newport Beach, MBI (former RBF), and City of Huntington Beach was held to discuss issues associated with proposed construction activities. Traffic Plan prepared and submitted to the City of Newport Beach for approval on 6/29/16. Per request of CCC a dewatering plan was prepared and submitted for approval. Mesa Water® staff, MBI and CCC met on 10/6/16 and discussed mitigation conditions. Final bid set will be completed once all permits are issued. Project in progress (10/6/16).

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: Well Automation and Rehabilitation

File No.: MC 2101

Description: Rehabilitate all clear water wells and add remote control SCADA capabilities

Status: Design: RFP for Design Services released on 7/1/2014. Pre-proposal meeting held on 7/9/2014. 6 proposals received on 7/28/2014; interviewed 3 shortlisted firms on 8/6/2014. Recommendation to award contract to Carollo Engineers approved by E&O on 8/19/2014; Board approval requested on 9/11/2014. Project kickoff meeting held on 10/1/2014. Draft Permit plan received for review on 11/3/14. . Well Standardization workshop held on 11/21/14 to align on site layouts, chemical tank sizing, and instrumentation. Draft Preliminary Design Report received on 1/12/2015, and reviewed in workshops on January 21, 2015 and February 3, 2015, and March 3, 2015. 60% received on April 13, 2015. Meeting to resolve review comments scheduled for April 27, 2015.

Construction Management (CM) Services: Released and RFP for CM services on December 30, 2014 Preproposal meeting held on January 12, 2015. Four (4) proposals were received on January 26, 2015. Three proposers were interviewed on February 4, 2015, and the recommended Contract with RBF was approved by the Board on March 12, 2015.

60% design received on April 13, 2015. General 60% Design Review workshop held on April 27, 2015 and electrical/instrumentation review workshop held on May 11, 2015. Working on optimizing construction sequence. Electrical design workshop scheduled for June 25, 2015. 90% design submittal received on July 15, 2015. Engineer's Estimate of probable cost at 90% is approximately \$10.1. Workshop to review and address 90% comments held on July 29, 2015. Contractor prequalification package sent to eight (8) General Contractors on July 18, 2015. Four prequalification applications were received on August 17, 2015. 100% Design received on September 16, 2015. Notice Inviting Sealed Bids was released to four prequalified contractors on October 5, 2015. Job Walks were conducted on October 13, 2015 for prequalified Prime Contractors and on November 3, 2015. Addenda and clarifications in response to bidder's questions have been issued. Bid opening was extended to January 7, 2016 to allow for recent changes for new Well 9 layout. Four bids were received on January 7, 2016. An action item to award a contract to the lowest bidder was approved by the Engineering and Operations Committee on January 16, 2016 and by the full Board on February 11, 2016. Notice to proceed was sent on April 4, 2016. Preconstruction meeting held on April 12, 2016. The project is in the pre-construction submittal phase with several Requests for Information and equipment submittals received from the Contractor by the Construction Manager, and reviewed and responded to by the Design Engineer. Construction activities began at Well 5 on October 3, 2016 with demolition and well rehabilitation beginning in the first week (updated 10/6/16).

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: Two New Wells

File No.: MC 2158

Description: New wells and real estate services to identify and acquire property

Status: Change Order to Well Rehabilitation and Automation approved at January 20, 2015 E&O to retain Carollo and subconsultant Geotechnical Consultants Inc. (GTC) to provide typical well site layout and hydrogeological investigation to identify promising locations for two new 2,000-gpm clear wells. Met with Real Estate Professionals on February 2, 2015, to discuss scope of work for well site property identification and acquisition. Met with OCWD Chief Hydrogeologist on March 24, 2015, to identify study area for new well sites. Gave Notice to Proceed to Real Estate company on May 4, 2015, and provided consultant report on preferred well site property characteristics. Real Estate consultant developed an advertisement postcard to describe the type of property needed, and sent it to over 1,000 commercial and industrial property owners in the study area. Three sites have been presented for evaluation. Also met with the Laguna Beach County Water District (LBCWD) Manager of Engineering & Operations on October 13, 2015, to discuss development of a jointly-owned well on property in Fountain Valley owned by LBCWD. An offer to purchase one site was presented to the property owner on November 16, 2016. The owner has not responded, and the offer time frame has expired. An offer for a different property was prepared and presented on January 6, 2016. Owner has decided to lease the property rather than selling. A third property is being evaluated by staff and OCWD for potential interference from the OCWD mid-basin injection. Travel time analysis results from OCWD showed that the property is inside the six month travel time window. A meeting was held on February 22, 2016, with OCWD and DDW to discuss the travel time analysis, and DDW determined that it would not issue a permit for a drinking water well at the site. A meeting with the City of Santa Ana Water Department was held to discuss the possibility of a jointly-owned well on a City of Santa Ana-owned site. An offer to purchase was presented to a property owner for an underutilized portion of a property on May 4, 2016. The offer was rejected. A revised offer was submitted on June 7, 2016. The owner has decided not to sell the property. Staff is working with Voit Real Estate to identify and evaluate underutilized sites in the vicinity of the study area. One underutilized site on Sunflower Boulevard was considered but rejected for being only 200 feet from the current Well 9B site, which would add significantly to pumping costs at both sites. Another site near Bristol and St. Gertrude was considered, but rejected due to the cost of the property, its location adjacent to a residential area, and the cost of construction of two miles of pipeline to Mesa Water's service area. A smaller, former gas station site in the same area is currently being evaluated. Voit is pursuing the ownership of other underutilized sites but with no additional leads. (updated 10/6/16)

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: Well 9B

File No.: MC 2229

Description: Replacement of Well 9

Status: Kickoff meeting was held on January 22, 2016. Well design criteria for depth, expected screen intervals, and expected pumping rate were established. Well design decisions include a continuous diameter of 18 inches with stainless steel casing and wire wrapped screen. Detailed design is in process. Draft bid documents reviewed and returned on March 25, 2016. Bid documents were released on April 22, 2016. The pre-bid site meeting was held on May 18, 2016 and attended by four bidders. Three bids were received by the deadline of June 7, 2016. The low bid from Weber Water Resources is approximately 30% below the Engineer's Estimate. Notice to Proceed was issued to the contractor on July 19, 2016. Destruction of the existing well began on August 4, 2016 and was completed on August 19, 2016. The drilling of Well 9B began on August 29, 2016 and is currently in progress. The 304L Stainless Steel Casing is scheduled to arrive on site on September 14, 2016. The Contractor is currently in the process of demobilizing the drill rig and preparing for test pumping. Project in progress (10/5/16).

Project Title: MWRP Parking Project

File No.: MC 2052

Description: Conduct parking layout design

Status: Parking study prepared by Onward Engineering in November 2013. The Board approved alternative # 3 Parking Along the MWRP Frontage on Gisler Ave. on 3/15/2014. RFP for the parking design in consultants' review (11/6/14). RFP sent out to consultants 11/25/14. Proposals due 12/19/14. Interview with three consultants held on 1/7/15. Recommendation brought to January E and O for consideration of approval and will be brought to the Board on 2/12/15 for approval. Project approved 2/12/15. Kick-off meeting held on 2/19/15. Design in progress. 30% design submittal submitted 3/23/15. Staff met with C.J. Segerstrom and discussed concept and details of the proposed parking layout. Segerstrom verbally approved the project. City of Costa Mesa approved the concept and currently consultant is evaluating the landscape requirements with the City of Costa Mesa. E and O Committee accepted the conceptual design and provided comments on 5/19/15. The condition approval from Segerstrom received on 6/29/15. Staff is working with the designer (CivilSource), Mesa Water's attorney, and City of Costa Mesa on addressing Segerstrom's comments. Staff is reviewing the Initial Study/Summary of Findings Report received on 8/3/15. Staff has addressed all Segerstrom's requests included in their 6/29/15 letter and prepared a response letter. Approved construction plans were received from the City of Costa Mesa on 12/29/15. The final bid package completed 3/15/16. Encroachment Permit Application submitted to the City on 3/6/16. Hold Harmless Agreement for the

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Installation of Off-Site Parking Improvements within Public Right-of-Way received on 5/4/16. Staff reviewed the Agreement and sent comments to the City of Costa Mesa on 5/27/16. City approved all revisions as proposed by Mesa Water® and sent the agreement for signature on 6/24/16. The Engineering and Operations Committee reviewed the Agreement at July 19, 2016 meeting and recommended Board approval. Board approval obtained on August 11, 2016. Agreement sent to the City for execution and recording on 9/7/16. An encroachment permit is anticipated to be issued in of October 2016. (10/6/16)

Project Title: OC 44 Import Stations Flow Meter Replacement

File No.: MC 2088

Description: Provide design for replacement of Flow Meters in the OC 44 Import Turnouts No. TO-2, TO-4, and TO-5

Status: Task Order No. RBF-3 for preparing construction drawings, technical specifications, and bid documents for the flow meter replacements in the import turnouts No. TO-2, TO-4, and TO-5 issued to Michael Baker International (MBI) former RBF Consulting on July 23, 2014. . 75% plans and specifications submitted for review 10/7/2014. Staff is reviewing the submittal (10/9/2014). The review comments returned back to the consultant 11/4/14. Design of new pressure gauges, pressure transmitters, and related improvements were added to the scope in December 2014. Design in progress. 90% design package submitted for review on 2/20/15. Working with consultant and CLA-VAL on reviewing the design (3/6/15). 100% design submitted on 3/10/15. The comments to the 100% design sent back to the designer 4/30/15. Final design package received on 5/27/15. Mesa Water® staff is reviewing the package and working with MBI on addressing final comments 6/8/15. Project solicited 6/17/15 and pre-bid walk held on 6/29/15. Bids opened on 7/10/15. Staff recommended that the Board of Directors award a contract to the lowest bidder Jamison Engineering. E & O Committee recommended approval on 7/21/15. Board approved the project on 8/10/15. The kick-off meeting held on 8/17/15. Staff has finalized the contract and issued Notice to Proceed on 9/16/15. Project team is in the submittal review process. Progress meetings held on 2/2/16 and 3/2/16. Construction begun on April 4, 2016. The Contactor replaced 16" valve in Santa Ana Pressure Reducing Station on April 6, 2016 and meters in TO-2, TO-4, and TO-5 on April 29, 2016. Training for Mesa Water® personnel held on 6/14/16. Contractor continues working on remaining punch list tasks of the project including programming valve controls, integrating with SCADA, and on preparing a test plan. Hydraulic Analysis to determine flow through TO-2, TO-4, and TO-5 using 15 ft/s maximum velocity in pipes downstream of turnouts were prepared by MBI on September 30, 2016. (10/6/16)

Project Title: Reservoir 1 and 2 Improvements

File No.: MC 2111

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Description: Installation of gas flow meters at Reservoir 1 and Reservoir 2,

Status: Staff prepared Scope of Work and sent a request for quote to on-call Engineering consultant (As-Needed Design Consultant) to provide:

Design and specifications for installation of gas meters for Res 1, Res 2, and Well 5. Evaluation and design of Res 1 Air Vent Covers and Roof Membrane, and design for replacement of Res 1 silencers. Request for quote sent out 3/5/15. Brady Engineers selected for the project. Kickoff meeting held on 4/7/15. 30% design package submitted 5/27/15. Designer is working on addressing the review comments and continuing the design (7/10/15). Well 5 gas meter moved into the well automation and rehabilitation project scope of work. 100% Design Package received on 8/4/15. Meeting with the designer to discuss reviewers' comments held on 8/10/15. The designer is revising the design and final bid package is anticipated to be submitted on 9/4/15. The final bid package submitted on 10/12/15. Staff has reviewed the submittal (11/5/15). Project advertised for bid on April 6, 2016. Pre-Bid meeting held on 4/20/16. Bids opened on 5/17/16. Two bids received for \$516,000 and \$556,600. Staff reviewed the bids and recommended E&O Committee to approve the lower bid. E&O Committee recommended approval of the project on 6/21/16. Kick-off meeting held on 8/3/16. Construction began on 9/12/16 with Reservoir 1 roof membrane replacement and air vent repair. Project in progress (10/6/16).

Project Title: Pipeline Testing Program

File No.: MC 2112

Description: Implement Resolution No. 1442 Replacement of Assets to annually perform non-destructive testing of 1% of the distribution system, and destructive testing of segments that are shown to have less than 70% of original wall thickness by non-destructive testing.

Status: Identifying segments for FY 2015 non-destructive testing and arranging for excavation and removal of segments that tested below 70% remaining wall thickness in FY2014 non-destructive testing. Released a Request for Proposal for a consultant to administer the program and develop standard operating processes on February 6, 2015. Three proposals were received on February 26, 2015, and interviews conducted on March 4, 2015. A contract with RBF was approved by the Board on April 9, 2015. Kickoff meeting held on April 21, 2015. Project status meeting held on June 8, 2015. Draft deliverable of prioritization of asbestos concrete pipe (ACP) for non-destructive testing received on June 26, 2015; updated draft received on August 7, 2015. Draft deliverable with recommendations for non-destructive testing technologies for metallic pipe received on August 7, 2015. Draft evaluation of destructive testing laboratories and tests received on August 21, 2015; final report received on September 16, 2015. Echologics performed non-destructive testing of 3 miles of ACP from July 13-17, 2015. Draft report received on August 14, 2015; final report received on September 1, 2015. Based on the Echologics reports from 2013 and 2015, ten ACP segments were

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

selected for sampling and destructive testing. Three ferrous material pipelines with a history of repairs were also selected for field sampling and destructive testing. Draft bid documents for field sampling received on October 16, 2015. Final bid documents were released to three on-call contractors on November 23, 2015, for bids. Pre-bid meeting was held on December 7, 2015 and attended by all three of the bidders. Three bids were received on December 16, 2015. All bids exceeded the budget and the General Manager's signing authority. An action item to approve a contract with the low bidder was approved by the Engineering and Operations Committee on January 19, 2016, and by the Board on February 11, 2016. Notice to Proceed with field sampling was given on March 7, 2016. An encroachment permit from the City of Costa Mesa was received on April 25, 2016. Field sampling began on May 16, 2016 and completed on June 28, 2016. Samples were shipped to MEIC Lab in Portland, Oregon, for destructive testing on July 7, 2016. Samples were received at MEIC on July 11, 2016. Lab results, including estimates of remaining useful life, are expected on October 10, 2016. Non-destructive testing of the next 3 miles of ACP was completed on September 16, 2016, and the draft report was received October 1, 2016. (Updated 10/6/2016). Staff is preparing to update the Committee on this project.

Project Title: MWRF Outreach Center

File No.: MC 2147

Description: Report on the feasibility of reconfiguring and potentially expanding the functional uses of the MWRF Operations and Administration Building to include a multi-purpose room and educational forum.

Status: Mesa Water® is coordinating with IBI Group (designer) on the feasibility of implementing an education and outreach center at the MWRF. Kick-off meeting was held on 6/1/2015. Program Requirement Questionnaire meetings were held on 6/9/2015 and 6/17/15. Program Report delivered to Mesa Water® for review on 7/7/2015. 60% design concepts are scheduled for submittal on 08/14/15. 100% concept design received on 09/29/15. Virtual rendering received on 10/6/15. Concept designs presented at the October Board Workshop. A follow-up planning session was held at the November Engineering and Operations Committee Meeting to capture the Board's input on evaluating reduced cost options and to revisit the existing Boardroom improvements. Board directed staff to develop a scope of work to evaluate scaled down layouts of the MWRF Outreach Center and revisit expanded layouts of the main Boardroom. Engineering and Operations Committee approved a contract amendment with IBI Group to reflect the revised scope of work. Item was approved by the Board February 11, 2016. IBI Group performed an inspection of the existing Boardroom on February 25, 2016 and are in the process of developing conceptual layouts. Staff review and meeting occurred on April 11, 2016. Conceptual layout work has been deferred. (10/5/16)

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: Mesa Water® Main Office HVAC Study

File No.: MC 2171

Description: Evaluate the existing HVAC system and provide recommendations for improved efficiency and operations of the system.

Status: Mesa Water® has contracted with Goss Engineering Inc. to perform this study. Kick off meeting was held January 13, 2016. Goss Engineering performed a field survey of both main campus buildings over the course of three days. Draft report with results and recommendations was reviewed by staff. The final report was delivered on June 30, 2016 and was reviewed by staff for completeness. Staff presented the findings and recommendation to the Board of Directors at the July E&O Committee Meeting. Board approved contract to move forward with the design of a complete Variable Refrigerant Flow system. Contract is currently being executed and kickoff is being scheduled for late October. (10/5/16)

Project Title: Reservoirs 1 & 2 Pumps, Controls, and Chemical System Assessment Project

File No.: MC 2173

Description: Evaluate the existing Pumps, Controls, and Chemical Systems at Reservoirs 1 & 2. The project includes lab testing of pump efficiency, physical assessment of pumps and pipework, assessment of the existing control system, and preliminary design of a chemical dosing system. Recommendations for improved efficiency and operations of the system will be included in a final report.

Status: Mesa Water® has contracted with Hazen & Sawyer to perform this study. Kick off meeting was held September 30, 2015. The consultant performed a field survey of both Reservoirs 1 & 2 over two days. A preliminary outline of technical memo 1 was provided on December 11, 2015. Initial data requests were responded to by December 7, 2015, with follow up responses provided on January 7, 2016 (SCADA Data) and February 9, 2016 (Jockey Pump Data). Pump testing scope of work has been reviewed by Mesa Water® and returned to the Consultant for revision. TM-1 has been reviewed by staff and returned to the consultant. Pump extraction plan and bid documents are currently being reviewed by staff. The Consultant has begun the preliminary design of a chemical dosing system. Request for bids for the pump extraction will be released in August 2016. Bids for the pump extraction were submitted and reviewed. The item was presented to the Engineering and Operations Committee at the September 20, 2016 meeting. Contract is currently being executed and kickoff is being scheduled for late October. (10/5/16)

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: South Coast Plaza Pipeline Repair

File No.: MC 2218

Description: Water main repair due to failed 12" main.

Status: On October 19, 2015, a 50-year old waterline near the western end of the interior roadway of South Coast Plaza at Bristol Street (across from Anton Boulevard), ruptured and impacted the soils supporting the pavement. At the rupture location the pavement caved-in resulting in a deep sinkhole (approximately 30 feet by 20 feet at the ground surface) undermining a South California Edison (SCE) high voltage (12 KVA) duct bank and roadway infrastructure (sidewalk, light poles, palm trees, etc.). Beyond the immediate location of the waterline rupture, the asphaltic concrete pavement was uplifted under the water pressure and the base course was filled with water, soaking the upper parts of the clay subgrade. Mesa Water® used its on-call contractor and consulting resources to facilitate the work. The project was completed on Thursday, October 29, 2015. Staff reviewed the contractors' invoicing and recommended approval. The Finance Committee approved payment of the invoices on 12/21/15 and the claim was submitted to ACWA JPIA. Staff is coordinating with ACWA JPIA and providing all back-up invoicing detail necessary to finalize the claim. On 6/30/16 staff completed dialogues with ACWA JPIA regarding amount of final compensation for repair of the leak. The reimbursement check for \$128,581.10 was received from ACWA JPIA on July 7, 2016. (10/6/16)

Project Title: Other Agency Project Coordination

File No.:

Description: Median construction in Placentia Ave. between Wilson St. and Adams Ave.

Status: Mesa Water® 16" main runs 5' East of the street center line. Mesa Water® is coordinating with designer and City on design of necessary protection and root barrier for the water main. 85% design plans received on (12/22/14). Plan review in progress 1/8/15. Plan review comments sent to the City 2/6/15. Mesa Water® provided update comments to landscaping plans on 6/17/15. Mesa Water® continuing to coordinate with the City, Stivers and Associates, Inc., and City Designer on layout of project. Revised final plans submitted for Mesa Water® review on 11/19/15. Staff reviewed the submittal in cooperation with Mesa Water® landscape consultant (Stivers Associates) and submitted comments to the City Designer on 12/28/15. The comments have been accepted by the Designer and Final Plans were submitted on 2/9/16. New comments sent to the designer on 2/18/16. The revised final plans received on 3/21/16 and approved by Mesa Water® on 3/31/16. City of Costa Mesa awaiting state funding for the project (10/6/16)

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

October 2016

Project Title: Other Agency Project Coordination

File No.: M2106

Description: Water main relocation in New Hampshire Dr. due to Greenville-Banning Channel Improvements by County of Orange.

Status: Relocation of 12" water main is required due to enlarged box culvert on Greenville-Banning Channel. Task Order No. RBF-2 issued to RBF Consulting on June 24, 2014 for design of the relocation. Mesa Water® is coordinating with County of Orange and RBF. Design in progress. Hydraulic analysis received from RBF 9/12/14 indicated that taking the New Hampshire pipeline out of service during construction of the Greenville-Banning Channel will have no adverse impacts on the distribution system (8/9/14). Mesa Water® is working with OCFCD on finalizing the cooperative agreement. E&O Committee approved the agreement 11/18/14. Pipeline relocation design package submitted to Mesa Water® on 1/31/15. Mesa Water® is coordinating with OCFCD and consultant to address final comments. Plans and specifications for the pipeline relocation completed 3/3/15 and forwarded to OCFCD on 3/5/15. Project was delayed until Spring of 2016. Attended the pre-construction meeting on 7/21/15. Construction meeting with OCFCD's contractor Sukut Construction (Sukut) held on 4/7/16. Staff is coordinating with OCFCD and Sukut on project schedule. Two new 12-inch valves installed by Mesa Water® on New Hampshire Dr. at Idaho Ave. on 7/7/16 and air-vac valve relocated on 7/18/16. Approx. 110 ft. long section of existing 12" water main removed and existing box culvert demolished on 7/25/16. Construction of the new box culvert and water main replacement were completed in September, 2016. Completion of the Channel Improvements Project is scheduled for mid January, 2017. (10/6/16)

Water Quality Call Report

September 2016

Date: 9/6/2016

Source: Phone

Address: 1616 White Oak Street

Description: Customer concerned about the water after seeing white growth over time in a bag containing water and pennies used to deter flies.

Outcome: Assured customer that Mesa Water® conducts weekly testing and bacteriological sampling throughout the distribution system to make sure that chlorine residual is maintained and there is no microbiological issue. Also explained to customer that there are many factors that may have contributed to the growth in the bag such as the cleanliness of the bag and the pennies, the chlorine residual left in the water after it's gone through her plumbing, the direct sunlight exposure of the bag creating the right environment for growth, etc. Customer also mentioned having another bag that did not have any growth. Customer was satisfied.

Date: 9/25/2016

Source: Field

Address: 426 Enclave Unit 101

Description: Customer reported rusty water.

Outcome: Staff exercised valves in the area and some sediments entered the customer's line but cleared up after flushing. Followed up with customer a few days later and water was fine.

Date: 9/26/2016

Source: Phone/Visit

Address: 15 Surfside Ct

Description: Customer noticed sulfur odor from toilet after flushing when water has been sitting for several weeks.

Outcome: Took sample from the kitchen faucet and tested for pH, temperature, and chlorine residual. All were within normal range and no foul odor noticed. Customer travels often and is gone 2-3 weeks at a time. Explained to customer about the p-trap and suggested he disinfect the drain line.

Date: 9/29/2016

Source: Phone/Email

Address: 114 40th Street

Description: Customer concerned about lead in water and wants to get it tested.

Outcome: Discussed lead and copper sampling results on the Annual Water Quality Report and provided customer a list of laboratory contacts since she's interested in getting the water tested.

**MESA WATER DISTRICT
COMMITTEE POLICY & RESOLUTION
REVIEW OR DEVELOPMENT**

ENGINEERING & OPERATIONS COMMITTEE

Policy Assignments for 2016

Policy Name	Resolution	Date Adopted	Revision Schedule	Next Review
Rules and Regulations for Water Services (will include review of meter capacity charges and easement procedures)	Resolution No. 1470	02/09/16	Review and update as needed	
Standard Specifications and Drawings	Resolution No. 1449	08/14/14	Review and update as needed	

Water Operations Status Report
July 1, 2016 - September 30, 2016

Operations Department Status Report	Wk Unit	Plan Days	Act Days	Plan Qty	Act Qty	Plan Cost	Actual Cost
01 - HYDRANTS							
WD-0101 - HYDRANT MAINTENANCE	HYDRANTS	86	64	1725	1176	\$68,352	\$43,606
WD-0102 - HYDRANT PAINTING	HYDRANTS	4	2	110	46	\$3,558	\$821
Program 01 TOTAL		90	66			\$71,910	\$44,427
02 - VALVES							
WD-0201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	52	50	1106	893	\$41,621	\$33,964
WD-0202 - NIGHT VALVE MAINTENANCE	VALVES	5	0	54	0	\$4,259	\$0
Program 02 TOTAL		57	50			\$45,880	\$33,964
03 - METERS							
WD-0301 - NEW METER INSTALLATION	METERS	5	3	31	20	\$8,778	\$7,901
WD-0302 - RAISE REPLACE METER BOX	BOXES	6	4	26	8	\$5,982	\$2,543
WD-0305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	17	27	34	52	\$16,935	\$16,560
WD-0306 - LARGE METER TEST/REPAIR - C	TESTS	4	3	30	14	\$3,532	\$1,752
Program 03 TOTAL		32	37			\$35,227	\$28,756
04 - MAIN LINES							
WD-0400 - MAIN LINE REPAIR	REPAIRS	31	59	5	7	\$27,610	\$48,721
WD-0402 - AIR VAC MAINTENANCE/REPAIR	REPAIRS	7	11	41	88	\$5,429	\$7,574
Program 04 TOTAL		38	70			\$33,039	\$56,295
05 - SERVICE LINES							
WD-0501 - SERVICE LINE REPAIR	REPAIRS	12	16	5	7	\$8,436	\$10,088
Program 05 TOTAL		12	16			\$8,436	\$10,088
06 - CAPITAL							
CAP AV - CAPITAL AIR VACUUM REPLACE	AIR VACS	1	1	1	1	\$623	\$334
CAP BI - CAPITAL BYPASS & METER INSTALL	REPLACE	0	0	0	0	\$0	\$0
CAP FH - CAPITAL HYDRANT UPGRADE	HYDRANTS	13	21	2	4	\$14,584	\$24,536
CAP LM - CAPITAL LARGE METERS	METERS	3	1	13	2	\$11,884	\$1,847
CAP MV - CAPITAL MAINLINE VALVE REPLACE	VALVES	8	44	2	5	\$10,160	\$34,251
CAP SL - CAPITAL SERVICE LINE REPLACE	SERVICES	6	0	3	0	\$5,712	\$0
CAP SM - CAPITAL SMALL METERS	METERS	2	14	18	170	\$2,349	\$22,521
CAP SS - CAPITAL SAMPLE STATION REPLACE	STATIONS	3	4	3	9	\$2,177	\$2,932
Program 06 TOTAL		36	85			\$47,489	\$86,421
VACANT POSITIONS			7				\$4,949
TOTAL						\$241,981	\$264,900



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: October 18, 2016
SUBJECT: Municipal Water District of Orange County Activities Update

RECOMMENDATION

This report is for information only.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #3: Be financially responsible and transparent.
Goal #7: Actively participate in regional water issues.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

This report on Municipal Water District of Orange County (MWDOC) issues is intended to brief the Committee and Board on activities relevant to Mesa Water District (Mesa Water®). The first section, "On-Going Issues", is a status update on current studies, reports, and/or policy work groups that staff are involved with. The second section, "Last Month's Issues", is a report on noteworthy items that were covered at the last month's MWDOC Board and Committee meetings. The last section, "Upcoming Issues", is a preview of new and forthcoming issues important to Mesa Water®. This format is intended to keep the Committee and Board informed about current and future items at MWDOC in order to provide direction to staff and its MWDOC representatives in a timely manner, if required.

ON-GOING ISSUES

ORANGE COUNTY'S WATER SUPPLY AND PERFORMANCE – JULY 2016 REPORT:

- 1) For the month of July 2016, Orange County saved 18.59% (compared to the historical average for July 2014 and July 2013), exceeding the MWDOC goal of 10%
- 2) Lake Matthews is currently at 70% of capacity, Diamond Valley is at 67%, Lake Powell is at 53% and Lake Shasta is at 62% of capacity
- 3) Orange County has saved 46,757 AF compared to CY 2013; this equates to a savings of \$136 million of imported treated water from MWD
- 4) Since the drought began in 2012, local precipitation has been a cumulative 28.5" below average



IMPLEMENTATION OF THE GOVERNOR'S EXECUTIVE ORDER B-37-16; MAKING WATER CONSERVATION A CALIFORNIA WAY OF LIFE:

- On May 9, 2016, Governor Brown issued a new Executive Order extending and updating the Emergency Regulations to February 28, 2017
- The Executive Order includes both short-term emergency response actions and long-term improvements in water use. The four main areas of focus are:
 - Use Water More Wisely: This provision calls for the replacement of the previous state-developed mandatory conservation targets (8% to 36%) with individual agency's supply and demand conditions. Each agency is responsible for a three-year stress test. Approximately 84% of water agencies in the State met the stress-test, including MWD and member agencies. Targets will be customized to each water agency's unique conditions.
 - Eliminate water waste: The Water Board shall permanently prohibit practices that waste potable water, including: hosing off sidewalks, driveways and other hardscapes, washing automobiles with hoses not equipped with a shut-off nozzle, using non-circulated water in a fountain or other decorative water feature, watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation, and irrigating ornamental turf on public street medians.
 - Strengthen Local Drought Resilience: This includes 1) being able to respond to "more frequent and severe periods of drought", 2) create "common statewide standards", 3) be "customizable according to local conditions" and 4) plans need to have "adequate actions to respond to droughts lasting at least five years" instead of three.
 - Improve Agricultural Water Use Efficiency and Drought Planning: The Department shall work with the California Department of Food and Agriculture to update existing requirements for Agricultural Water Management Plans to ensure that these plans identify and quantify measures to increase water efficiency in their service area and to adequately plan for periods of limited water supply.
- The Executive Order also directs 1) State agencies to consult with Water agencies, Environmental Groups and other stakeholders in developing proposals, 2) Creation of Urban Advisory Group (UAG), which will include 35 members (including MWDOC, Moulton Niguel Water District and MWD), and 3) "Publicly issue a draft framework by January 10, 2017".



- The next step for MWDOC is to form a small technical member agency working group to:
 - Provide input for upcoming Urban Advisory Group and Technical Work Groups,
 - Draft template letter for member agency use,
 - Draft regional letter from MWDOC, and
 - Provide progress reports to MWDOC Board, member agency managers and Conservation Coordinators.

BAY DELTA/STATE WATER PROJECT ISSUES:

In August and September, the California WaterFix petition hearings before the SWRCB continued Part 1 of the hearings addressing the effects of the project on legal users of water.

The second segment, which is scheduled to begin October 20, 2016, is the presentation of evidence by all opponents where they describe their potential alleged injury resulting from the proposed project.

LAST MONTH'S ISSUES

REORGANIZATION OF MWDOC WFC BOARD OFFICERS:

Director Tamaribuchi was elected President and Director Finnegan was elected Vice-President. Moved and approved 6-0.

COLORADO RIVER ISSUES:

On August 16, the U.S. Bureau of Reclamation issued its annual determination of Colorado River supplies for the upcoming year, and determined that there will be no water supply curtailments on the Colorado River in 2017. The Bureau also concluded that there is a about a 50% chance of shortage on the Colorado River in 2018, increasing to about 60% in 2019 and beyond.

UPCOMING ISSUES

- MWDOC Reserve Policy
- OC Reliability Study TM-4
- Permanent Water Use Regulations

FINANCIAL IMPACT

None.

ATTACHMENTS

None.



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: October 18, 2016
SUBJECT: Orange County Water District Activities Update

RECOMMENDATION

This report is for information only.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #3: Be financially responsible and transparent.
Goal #7: Actively participate in regional water issues.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

This report on Orange County Water District (OCWD) issues is intended to brief the Committee and Board on activities relevant to Mesa Water District (Mesa Water®). The first section, "On-Going Issues", is a status update on current studies, reports, and/or policy work groups that staff are involved with. The second section, "Last Month's Issues", is a report on noteworthy items that were covered at the last month's OCWD Board and Committee meetings. The last section, "Upcoming Issues", is a preview of new and forthcoming issues important to Mesa Water®. This format is intended to keep the Committee and Board informed about current and future items at OCWD in order to provide direction to staff and its OCWD representatives in a timely manner, if required.

ON-GOING ISSUES

CADIZ VALLEY WATER CONSERVATION RECOVERY AND STORAGE PROJECT:

Background: The CADIZ project proposes to pump groundwater located in aquifers underneath dry lakes in the Mohave Desert into the Metropolitan Water District (MWD) Colorado River Aqueduct (CRA). A pipeline from the CADIZ property to the CRA needs to be federally permitted and then constructed. The water could then be wheeled through the MWD system to interested participants.

CADIZ is seeking to secure agreements to sell approximately 50,000 acre-feet per year of water. Approximately 5,000 to 10,000 acre-feet per year is available to the Orange County Water District (OCWD). If interested, the OCWD would need to decide how much water it wanted to purchase. In 2016 the total cost of the water including MWD's current wheeling fee is approximately \$1,518/acre-foot.



The agreement would provide for the following:

- 5,000 to 10,000 acre-feet of water annually;
- 50 year agreement term;
- The base 2014 cost of CADIZ water is \$960/acre-foot. However this price is annually escalated by a water and sewer index (capped at a maximum 5% annual increase) which makes the 2016 cost of the water approximately \$1,080/acre-foot delivered to the MWD CRA;
- The water cost would decrease in future years as the initial project capital investment was fully amortized and repaid;
- OCWD would also pay the MWD wheeling charge to bring the water to the District which is currently \$438/acre-foot. This makes the total cost of CADIZ water \$1,518/acre-foot in 2016 (1,080 + 438). The MWD wheeling charge will increase to \$465/acre-foot in January 2017. This wheeling charge may decrease possibly in the area of \$200/acre-foot based upon the results of a San Diego County Water Authority lawsuit regarding the MWD rate structure;
- OCWD would make a \$100,000 good faith deposit if a Purchase and Sale Agreement is ultimately executed which would be credited against future purchases;
- OCWD would be responsible for CEQA compliance if a Purchase and Sale Agreement was executed;
- The Purchase and Sale Agreement would terminate (unless otherwise extended by the parties) if construction of the necessary facilities have not commenced within 24 months. This provides CADIZ a period of time to resolve the remaining project issues.

OCWD received letters from: Senator Dianne Feinstein (opposed to an agreement), Southern California Partnership for Jobs (supports the agreement), Residents for Responsible Desalination (opposed), and a letter from the Sierra Club, Southern California Watershed Alliance, Valley Audubon Society, Orange County Coastkeeper, Friends of Harbors, Beaches and Parks and Debbie Cook (all opposed). There was also a copy of an editorial that appeared in the Orange County Register from Allan Bernstein (Mayor of Tustin, chair of the Association of California Cities and Vice-Chair of Orange County LAFCO) in favor of the Cadiz agreement.

The Board motioned to have this item moved back to WIC for further questions and research and to report back to the Board in December.

GREEN ACRES PROJECT (GAP) FUTURE DIRECTION:

OCWD is authorized to negotiate and execute new GAP Sales agreements with five water retail agencies: Fountain Valley, Huntington Beach, Mesa Water District, City of Newport Beach, and Santa Ana. The City of Huntington Beach delivered a letter requesting to be added to the list for future connection to GAP with a demand of 285 AFY. After much discussion there was a motion to allow OCWD General Manager and General Counsel to negotiate new GAP Sales and Distribution Agreements but return for authorization from the Board to execute the agreements. Also within the same motion, to allow the demand requested by Huntington Beach to be added to the existing list of pending GAP projects already authorized for connection. All future requests for GAP will be on a case by case basis until it is demonstrated that additional OCSD flows are available. If any project that has already been approved "falls off" the approved list for any reason, that demand can be used for future consideration for projects currently on the pending list.



UPDATE ON ALTERNATIVE APPROACHES FOR INTEGRATED REGIONAL WATER MANAGEMENT IN ORANGE COUNTY:

OCWD staff updated the Water Issues Committee on this project which is two-fold. Staff is pursuing two options related to the District's participation in the Integrated Regional Water Management (IRWM) program. Two alternative approaches include forming an IRWM region in Orange County and working with SAWPA and SAWPA member agencies to refine the OWOW IRWM funding process. While discussions are continuing on both of these options, staff recommends OCWD support updating the Orange County IRWM plans at this time. Talks with SAWPA and its member agencies are continuing. By updating the Orange County IRWM with the County of Orange and the Newport Bay Watershed Executive Committee, this group would have completed the first phase of work that would be required if a new Orange County IRWM region was ever to be considered by the State of California. By updating the Orange County IRWM plan, it sends a message to SAWPA that OCWD is serious about working out the inequities that currently exist within the OWOW process. By updating the Orange County IRWM, Orange County can compete for Proposition 1 funding on its own, outside of the SAWPA, OWOW process. The \$30,000 requested by staff is for payment to the County of Orange for OCWD's cost share in updating the North and Central Orange County Integrated Regional Water Management Plans.

LAST MONTH'S ISSUES

GWRS FINAL EXPANSION: ADOPT CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) AND ENGINEER'S REPORT FOR THE GWRS FINAL EXPANSION PROJECT:

Background: The GWRS project was divided into three stages. The first stage was completed in 2008 and produced 70 MGD. The second stage was completed in 2015 and produced an additional 30 MGD (for a total of 100 MGD). The third stage is estimated to be completed in 2022 and will expand the system to its goal of 130 MGD.

The next steps in the process to help meet this goal are: 1) Pursue Proposition 1 Grant Funding and State Loans, 2) OCWD Board considers approval of Flow EQ Tank project budget & CEQA, 3) Board considers approval of Agreement with OCSD for GWRS FE Projects & RFP for Design, 4) Design Phase: 2017-mid 2018 and 5) Construction phase: 2019-2022.

The Board approved a motion to 1) adopt findings with respect to CEQA, 2) approve GWRS Final Expansion Engineer's Report and project budget, and 3) authorize filing of Notice of Determination.

UPCOMING ISSUES

- GAP Study
- Poseidon Project
- Updated Water Distribution Scenarios
- IRWD Lawsuit



FINANCIAL IMPACT

None.

ATTACHMENTS

None.

REPORTS:

8. REPORT OF THE GENERAL MANAGER:

REPORTS:

9. DIRECTORS' REPORTS AND COMMENTS: