



*Dedicated to
Satisfying our Community's
Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, June 16, 2015
Mesa Water® Reliability Facility
1350 Gisler Avenue, Costa Mesa, CA 92626
3:30 p.m. Special Board Meeting**

**ENGINEERING AND OPERATIONS COMMITTEE MEETING
Tuesday, June 16, 2015 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.

PRESENTATION AND DISCUSSION ITEMS:

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

1. Orange County Water District Santa Ana River Water Master Annual Report
2. Mesa Water® Reliability Facility Demonstration Garden

ACTION ITEMS:

3. Environmental Health and Safety Support Services

REPORTS:

4. Developer Project Status Report
5. Mesa Water and Other Agency Projects Status Report
6. Water Quality Call Report
7. Committee Policy & Resolution Review or Development
8. Operations Department Status Report
9. Municipal Water District of Orange County Activities Update
10. Orange County Water District Activities Update
11. Ocean Desalination Projects (no enclosure)
12. Report of the General Manager
13. Directors' Reports and Comments



INFORMATION ITEMS:

14. On-Call Design and Construction Management Services

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



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Engineering and Operations Manager
DATE: June 16, 2015
SUBJECT: Orange County Water District Santa Ana River Water Master
Annual Report

RECOMMENDATION

Receive the presentation.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.

Goal #3: Be financially responsible and transparent.

Goal #4: Increase public awareness about Mesa Water and about water.

DISCUSSION

Each year Orange County Water District provides a report on the condition of the Santa Ana River Watershed to comply with the court decision that manages allocation amongst its users. A presentation of the Water Master Report will be provided to the committee.

FINANCIAL IMPACT

There is no financial impact.

ATTACHMENTS

None.



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Stacie Sheek, Customer Services Manager
DATE: June 16, 2015
SUBJECT: Mesa Water Reliability Facility Demonstration Garden

RECOMMENDATION

Receive the information.

STRATEGIC PLAN

Goal #2: Practice perpetual infrastructure renewal and improvement.
Goal #4: Increase public awareness about Mesa Water® and about water.
Goal #6: Provide outstanding customer service.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

The Mesa Water Reliability Facility Demonstration Garden was accepted from the landscape contractor, Marina Landscape, Inc. in March 2013. All trees were guaranteed for one year, and other plant material was guaranteed for four months from the date of acceptance.

Following the summer of 2013, it was discovered that the redwood trees were declining in aesthetics and health. The declining health was evaluated by Mesa Water's landscape professional and it was determined that there were several elements impacting the Redwood tree growth performance. These impacts included the presence of an unusually hot and windy summer/fall season, lack of a demineralized irrigation system, and the lack of a weather-based irrigation controller system.

Mesa Water® has resolved the aforementioned issues to monitor, assess, and aid the redwood trees on a monthly basis via installation of the following improvements:

1. Extending the fogger system to accommodate the fast growing trees;
2. Installation of an ion exchange (IX) treatment system, which further treats the water before it is used in the fogging system;
3. Replacing the particulate and salt-laden mulch on a semi-annual basis; and
4. Applying nitrogen fertilizer on a quarterly basis and gypsum soil amendment on a monthly basis.

Mesa Water's landscape professional is performing an evaluation on potential mitigation options that could further expedite redwood forest health improvement. These findings will be presented at a future Engineering & Operations Committee meeting

FINANCIAL IMPACT

The financial impact will be assessed as part of the evaluation and study recommendations.



ATTACHMENTS

None.



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Engineering and Operations Manager
DATE: June 16, 2015
SUBJECT: Environmental Health and Safety Support Services

RECOMMENDATION

- Option 1. Renew the environmental health and safety support services contract for two years for \$170,000 per year with EORM;
- Option 2. Direct staff to develop Requests for Proposals for Environmental Health and Safety Support Services.

STRATEGIC PLAN

- Goal #1: Provide a safe, abundant, and reliable water supply.
- Goal #3: Be financially responsible and transparent.
- Goal #5: Attract and retain skilled employees.

PRIOR BOARD ACTION/DISCUSSION

For the FY2016 budget, the Board approved \$170,000 for environmental health and safety support services.

DISCUSSION

Mesa Water's Safety Coordinator left his position in June, 2012. Since that time, the environmental health and safety (EHS) function has been filled on a part-time basis by an on-site representative of a professional EHS company. Utilizing a professional EHS company provides Mesa Water staff with a team of professionals with expertise on all areas of environmental health and safety as well as emergency preparedness. Mesa Water® maintains a robust safety program and has developed and implemented new training on emergency operations. The scope of work provided under the EHS Support Services contract is summarized as follows:

1. **Training:** Training has been developed and provided for 24 core EHS programs and emergency operations. New-hire and annual refresher trainings are provided as required. Weekly tailgate meetings are provided to field staff.
2. **Evaluation:** Monthly on-site inspections are conducted to ensure staff are following training and guidelines and are using proper techniques and personal protective equipment. Quarterly site inspections are conducted to identify and mitigate potential safety issues and ensure compliance with site-specific environmental regulations. Investigations are performed for accidents and close-calls and reviewed with the Safety Ambassador Committee.
3. **Regulatory Review:** New and changing safety and environmental regulations are identified early to ensure Mesa Water® maintains compliance. Safety procedures and policies are created or updated when needed.



4. **Testing:** Periodic table-top exercises are conducted in the Mesa Water Emergency Operations Center to ensure staff is prepared to provide continuous service to Mesa Water customers in the event of an emergency and are able to restore the water system to normal operations as quickly as possible.

Mesa Water® selected EORM through a competitive bidding process to provide professional services in support of EHS activities. EORM has provided excellent support and tremendous value to Mesa Water®, including the development of the annual Safety Scorecard. Mesa Water's objectives are to ensure a cost competitive and transparent bidding process while balancing prudent use of internal resources to conduct competitive solicitation processes. In consideration of the outstanding value recognized by Mesa Water® from the existing support service contract provider (EORM) versus the costs to competitively rebid this work, it is recommended that the Engineering & Operations Committee consider extending this contract through June 30, 2017 for the combined amount of \$340,000. Alternatively, the Engineering & Operations Committee may desire to direct staff to competitively solicit proposals for this contract.

FINANCIAL IMPACT

A budget request of \$170,000 has been made for environmental health and safety support in the FY16 Budget.

ATTACHMENTS

Attachment A: EORM Proposal Letter

March 6, 2015

Ms. Tracy Manning
Mesa Water District
Assistant Operations Manager
1965 Placentia Ave.
Costa Mesa, CA 92627

Re: EORM[®] Environmental, Health and Safety Support and Emergency Operations Support

Dear Ms. Manning;

Since 2012 Environmental and Occupational Risk Management, Inc. (EORM[®]) has been providing support to Mesa Water District (Mesa Water) to manage their Environmental, Health and Safety (EHS) and Emergency Operations functions. EORM staff has knowledge of all Mesa Water facilities including the district offices, well and reservoir sites and the Mesa Water Reliability Facility (MWRF). Not only is EORM intimately familiar with the facilities, we have established trusted relationships with Mesa Water staff required to effectively manage these program areas. In addition to providing weekly onsite support, EORM has provided as needed support from technical experts and conducts annual audits of the required programs.

Ms. Jessica Smith, CAC and EORM Consultant, manages the day-to-day EHS functions and Mesa Water EHS Programs.

Scope of Services for EHS Support

Tasks include, but are not limited to:

- Creating weekly tailgate talks
- Performing required EHS training and develop new training if necessary
- Maintaining accurate records of training including scheduling or coordinating all outside EHS training for staff
- Maintaining Personal Protective Equipment (PPE) and supplies
- Conducting accident and incident investigations and root cause analysis and tracking
- Leading monthly safety committee meetings including summarizing meeting minutes and developing agendas
- Preparation and submittal of annual hazardous materials business plans as required by Orange County Health Care Agency and Costa Mesa Fire Department
- Managing hazardous materials and hazardous wastes, including coordination of disposal and all required state reporting
- Conducting monthly job site inspections and quarterly facility inspections

- Coordinating fire/life safety inspections and recordkeeping requirements
- Review and revise EHS programs and policies as needed
- Creation and management of equipment specific lockout/tagout procedures
- Creation and management of confined space entry procedures and inventory
- Maintain and review and records for crane and sling inspections, respiratory protection program and Hearing conservation program including coordinating required vendors for audiometric testing, medical clearances, and fit tests

Ms. Smith is present as the onsite resource 2 days per week to complete the above functions as well as respond to as needed EHS questions or concerns, and acts as the liaison for other technical EORM staff needs such as ergonomics experts, electrical safety experts, and risk management plan experts.

Over the last year, EORM Associate Consultant Ms. Nisha Parikh has taken the lead for the Emergency Operations efforts at Mesa Water.

Scope of Services for EOP Support

Tasks include, but are not limited to:

- Training staff
- Acting as WEROC liaison for Mesa Water
- Updating and revising Emergency Operations Plan as required
- Maintaining emergency operations supplies and equipment
- Creating and leading emergency operations functional drills
- Conducting WEROC radio and WebEOC checks
- Managing staff AlertOC database for emergency use

Annually, EORM subject matter experts, who are not otherwise involved in the day-to-day management or operations at Mesa Water, conduct an EHS audit of required programs to determine the level of compliance and how well the required programs have been implemented throughout the organization and effect they are operationally. The annual audit will include an executive summary of findings and the annual EHS scorecard to be presented to the board.

Cost Estimate

The cost estimates for the above listed tasks are shown in the table below. The rates offered to Mesa Water represent a continuation of the discounted rates extended to Mesa Water for the written programs development phase.

Cost Estimate for EHS and EOP Support

Role	Team Member	Anticipated hours per week	Total Anticipated Contract Hours per year	Billing Rate (\$/hr)	Budget
EHS Staff Support	Jessica Smith	16	768	\$167	\$128,256
EOC Support	Nisha Parikh	8	88	\$144	\$12,672
Principal or Senior	Lindsay Polic, CSP	1	40	\$221 -	\$8,840

Support	Stephen Riedman, CIH, CSP Sarah Buehler			\$189	
Total Budget					\$149,768

The estimated cost per year for EHS and EOP Support is \$150,000

Cost Estimate for Annual Audit

Role	Team Member	Anticipated hours	Billing Rate (\$/hr)	Budget
Environmental Auditor	Principal or Senior Consultant TBD	40	\$221 - \$189	\$8,840
Health and Safety Auditor	Principal or Senior Consultant TBD	40	\$221 - \$189	\$8,840
Document Production		8	\$77	\$616
Travel Costs				\$1,700
Total Budget				\$19,996

The estimated cost per year for the annual audit is \$20,000.

EORM looks forward to continuing our relationship and providing support to Mesa Water District so they can achieve their strategic goal to provide a safe, abundant and reliable water supply.

Regards,

Jessica Smith

Jessica Smith, CAC
Consultant

Lindsay Polic

Lindsay Polic, CSP, REHS
Principal Consultant

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2049	1527 Newport Blvd., 132,134,140 Industrial Way	60 Attached Live/Work Condos	Permit issued 10/11/13. Preconstruction meeting held 11/4/13. Waiting for construction to start. Project started 11/18/13. Installed water main 1/2/14. Pressure test 900', 8" water main and chlorinate 1/16/14. Water line tested and turned on 2/11/14. Installed service for models 2/12/14. Inspection ongoing as work progresses. Relocated fire hydrant on 6/4/14. Requested current easement docs on 5/22/14 that matched plans. Reviewed, and made corrections on 5/27/14. Received revised easement docs on 5/28/14 and prepared staff report on 6/5/14 to accept easement. Awaiting Board acceptance of Grant of Easement at upcoming Board meeting on 7/10/14. Tested irrigation backflow on 7/2/14. Relocated fire hydrant on 6/3/14. Installed 4 meters for models on 6/5/14. Easements accepted by Board on 7/10/14. Installed 7 additional meters and boxes on 8/5/14. Inspected gravel base for additional meters on 11/5/14 ahead of placing meters. Phase of 5 meters installed on 11/6/14. Installed concrete pad around fire line on 2/4/15. Installed 8 - 1" meters 2/5/15. Installed 9 - 1" meters 5/27/15. Phased development project, construction and inspections ongoing. (6/5/15)
MC 2065	1677 Superior	Tract Homes	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. Phase development project - Construction and inspections in progress. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2076	2183, 2187, 2191 Miner St.	New Residential	Water plans are in process of being prepared by engineer. Plans received 3/19/14. Mesa Water comments sent 3/27/14. Revised plans submitted 4/2/14. Plan check complete 4/11/14. Calculated fees 4/18/14. Revised plan received 5/20/14. Plan check complete on 5/22/14. Received mylars 6/2/14. Fees paid on 8/5/14. Permit issued 8/26/14. Precon meeting held on 2/24/15. Installed 6 - 1" services on 3/31/15, and 6 - 1" meters on 4/8/15. Installed backflow and checked flowthrough 4/15/15. Phased development project - Construction inspection on-going (6/5/15)
MC 2078	687 Victoria St.	11 Single Family Homes	Field survey completed 3/6/14. Plan review started 3/6/14. Plans reviewed and sent back for revisions 3/27/14. Revised plans received 4/2/14. Plan check complete 4/10/14. Final review complete and fees calculated 4/17/14. Mylars submitted/signed, fees paid, and permit issued 5/27/14. Developer requested precon meeting and received Inspection Checklist 2/6/15. Services installed on 3/3/15. Installed 4 - 2" services on 3/3/15 and 12 - 1" meters on 3/10/15. Backflow placed on 5/14/15. Backflow tested on 5/26/15. Inspections ongoing, abandonment of existing water service remaining. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2083	2600 Harbor Blvd.	Orange Coast Cadillac	Plans received on 3/12/14. Initial comments sent to Engineer via email 3/27/14 and official plan check with check prints completed 4/24/14. Revised plans received from Engineer 4/27/14. Revised plans did not address comments. Comments sent back to Engineer 4/29/14. Revised plans received 5/9/14. Notified Engineer that plans need to include fireline improvements in addition to meter and service relocations. Engineer stated that the fireline improvements were still under design and a re-submittal would not be immediate. Awaiting revised plans containing fire line improvements. Checked status with Engineer on 8/7/14. Developer stopped by on 10/7/14 to ask about status and was reminded that Engineer has not yet submitted revised plans. Developer again stopped by on 10/30/14 and was reminded that Engineer is awaiting revised plans. Revised plans submitted 12/4/14. Coordinating with developer on plan check comments. Plans reviewed and ready for permit issuance. Water service agreement application for new service and payment voucher mailed to the developer. Fees paid on 5/27/15. Awaiting mylars. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2087	421 Bernard St.	Pacific Gateway Condominiums	Plans reviewed 5/9/14. Mylar and check/payment received 5/15/14. Mylars not signed due to easement concerns. Conference call held with developer to resolve easement and concerns 5/28/14. Easement(s) to be granted. Developer sent hold harmless agreement and Grant of Easement docs on 7/3/14. Fees paid on 07/08/14. Developer discussed revisions to the easement docs with Mesa Water on 7/31/14 and an agreement was reached. Revised Grant of Easement and Hold Harmless docs sent by Developer and were considered for acceptance by committee at September E&O on 09/16/14. The Grant of Easement was accepted at the 11/13/14 Board Meeting. Mylars signed on 11/20/14 and permit issued on 11/25/14. Met with project manager 1/12/15 to work on finalizing the design of project. Revised plans received 2/3/15. Awaiting revised easement exhibits. Installed backflow for fire services on 4/1/15. Revised easements received 3/30/15. Replaced valve and tied in fire hydrant lateral 4/22/15. Installed 3" domestic meter 5/7/15. Backflow tested on 5/14/15. (6/5/15)
MC 2094	Bristol/Campus Intersection	Meter Relocation at JWA Maintenance Building	Plan check fees paid 5/20/14. Plans reviewed and revisions sent to Engineer 5/20/14. Awaiting revised plans. Checked status with Engineer on 08/29/14. Revised plans submitted on 09/10/14. 2nd plan check complete 09/11/14. Revised plans received on 09/25/14 and approved for mylars. Mylars submitted and fees paid on 10/23/14. Permit and inspection checklist issued to Contractor on 10/28/14. Awaiting contractor to schedule inspection. Contractor informed Mesa Water that work is about to begin. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2095	2023-2027 Placentia	36 Condos	Plans received and fees paid on 6/3/14. Plans reviewed and discussed with Phil L and easement proposal denied. Plan revisions emailed to Engineer and discussed over the counter. Engineer inquired about master meter options. Mesa Water indicated that master meter option was not within Board policy. Direction to install meter manifolds sent to Engineer on 7/3/14. Engineer submitted completely revised plans on 8/19/14. 1st plan check comments (1st with complete revised design) issued on 8/21/14. Revised plans received on 9/4/14 and 2nd plan check complete on 09/9/14. Final plans submitted, reviewed, and approved for mylar printing on 09/9/14. Signed/stamped mylars received, forms signed, and fees paid on 10/2/14. Water service agreement signed and permit issued on 10/21/14. USA underground marking on 3/30/15. Awaiting request for inspection. (6/5/15)
MC 2096	283 E. 19th St	Home Remodel	Plans received and fees paid on 6/4/14. Requested additional information from Engineer on 6/5/14. Engineer sent information on 6/9/14. Plans review and marked up due to the adjustment of meter box to grade and installation of a backflow. Comments emailed to Engineer on 6/9-10/14. Revised plans received on 6/18/14. Final review complete and mylars requested on 6/19/14. Mylars received and fees paid on 6/30/14. Application form received and permit issued on 7/9/14. Awaiting contractor to request inspection. Mesa Water inspected project site on 2/10/15 to ensure no improvements have been made without Mesa Water approval. Mesa Water inspector to revisit site on 5/7/15. 30-day permit expiration letter to be sent. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2103	2294 Pacific Ave	5 New Homes	Plans received and fees paid 7/15/14. Plan check complete and circulated on 7/24/14. Circulated plans received back to Plan Check on 7/31/14. Plan corrections sent to Developer and Engineer on 7/31/14. Followed up with Engineer on 08/29/14 regarding re-submittal of plans. Revised plans received 09/11/14 and 2nd plan check complete on 09/11/14. Revised plans emailed and approved for printing of mylars on 09/22/14. Mylars received and fees paid on 10/15/14. Mylars signed and permit issued on 10/23/14. Installed services and relocated existing services 12/22/14. Installed gravel base and 5 - meters and valve boxes on 2/24/15. Installed 5 - 1" meters 4/13/15. Awaiting inspection call for backflow installation and testing. (6/5/15)
MC 2104	55 Fair Dr.	Vanguard University Waterline Relocation	Plans received and fees paid 7/22/14. 1st plan check complete 7/29/14. Plan corrections sent to Engineer on 7/29/14. Revised plans submitted 08/19/14 and comments issued 08/19/14 regarding easement alignment. Check for construction fees, signed Grant of Easement form, and Quitclaim form submitted on 09/11/14. Final plans and easement exhibits received 09/23/14. Easement exhibits checked and comments issued on 09/25/14. Final easement exhibits received on 09/30/14. Grant of Easement and Quitclaim to be presented to Board at E & O Committee meeting on 10/21/14. Board accepted Grant of Easement and Quitclaim at the request of the University representative present at the meeting. Grant of easement and Quitclaim signed on 10/27/14. Precon meeting held on 10/28/14. Relocated and installed water main 11/18/14. Awaiting call for meter installation. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2118	220 E. 16th St.	Home Remodel (Complete Remodel)	Plans received and plan check fees paid 08/27/14. Plan check complete 8/28/14. Following plan check, and while awaiting corrected plans, inaccuracies in Mesa Water records were discovered, and inspector was requested to field verify the actual conditions. 2nd set of plans were revised to reflect actual conditions, and plan check finalized on 10/02/14. Mylars received and fees paid on 10/14/14. Permit issued on 10/21/14, and issued inspection checklist on 10/27/14. Mesa Water inspector reported no activity onsite 5/5/15. (6/5/15)
MC 2119	236 E. 16th St.	Home Remodel (Complete Remodel)	Plans received and fees paid 08/27/14. Plan check complete 8/28/14. Following plan check, and while awaiting corrected plans, inaccuracies in Mesa Water records were discovered, and inspector was requested to field verify the actual conditions. 2nd set of plans were revised to reflect actual conditions, and plan check finalized on 10/2/14. Mylars received and fees paid on 10/14/14. Permit issued on 10/21/14, and issued inspection checklist on 10/27/14. Mesa Water inspector reported no activity onsite 5/5/15. (6/5/15)
MC 2121	268 & 270 Palmer	Two Single Family Homes	Plans received and plan check fees paid 09/30/14 but plans missing a site plan showing improvements. Site plan received on 10/24/14. Plans reviewed and circulated for Dept. signatures on 10/30/14. Plan check comments issued to Developer on 11/13/14. Meeting with developer scheduled for 3/10/15. Second plan check complete, documents are currently in circulation with Mesa Water staff. Performed Site Pre-Survey on 4/10/15 to check for existing services. Third plan check returned to developer 4/23/15. Fourth plan check returned to developer on 5/21/15. Awaiting delivery of revised plans. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2125	2075 Placentia	14 New Homes	Plans received and fees paid 10/7/14. Plan check completed with all Dept. signatures on 10/16/14 and plan check comments issued to Engineer. Received revised plans 1/6/14. New revisions given to developer 1/12/15. Plan check completed and permit issued 2/9/15. Precon meeting held on 2/11/15. Precon meeting held on 2/11/15. Weld and hot-tap main 5/7/15. Installed 14 - 1" domestic meters and 1 - 1" irrigation meter on 6/4/15. Construction and inspections in progress. (6/5/15)
MC 2126	573 Victoria	37 New Homes	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. Awaiting revised plans from developer. (6/5/15)
MC 2127	1631-1645 Tustin Ave	11 New Homes	Plans received and fees paid on 10/9/14. Plan check complete with all Dept. signatures on 10/23/14 and plan check comments issued to Developer. Revised plans received from Developer on 11/18/14 and comments issued on 11/20/14. Developer picked up revised plans 1/7/15 and will resubmit for finalization. Plans approved 2/9/15. Precon meeting held on 2/11/15. Installed 4 - 2" services on 3/27/15, and 11 - 1" meters and 1 - 3/4" meter on 4/7/15. Construction and inspections in progress. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2130	789-795 Paularino	19 New Homes	Plans received and fees paid on 10/17/14. Plans reviewed on 10/28/14 and circulated for Dept. signature. Due to an existing private well nearby and discharge piping on site, staff has asked the Developer to have the well capped and the discharge piping removed prior to issuance of plan check comments. After Developer agreed to cap the well, plan check comments were issued to Developer on 11/20/14. Received revisions from developer on 1/8/15. Plans approved 2/3/15. PreCon meeting held 2/4/15. Installed 6 - 2" services on 2/13/15. Installed 19 - 1" services on 4/28/15. Installed 1 - 3/4" irrigation meter on 6/4/15. Inspection ongoing as work progresses. (6/5/15)
MC 2134	2026 Placentia	15 New Homes	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. Ran services on 5/7/15. (6/5/15)
MC 2143	481 E 17th St	Fast5Express Car Wash (Commercial)	Plans received and plan check fees paid 12/30/14. Developer notified on 1/12/15 that the project will be redesigned and new plans submitted. Additional car wash data requested 1/13/15. Revised plans received 1/28/15. The car wash flow data received 2/3/15. Developer to provide construction cost to finalize payment voucher and water service agreement. Permit issued 3/24/15. USA called out on 6/3/15. Awaiting developer to request inspection. (6/5/15)
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. Awaiting resubmittal. (6/5/15)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2150	1726 Superior Ave	Walgreens	Plans received and plan check fees paid 2/25/14. Plan check in progress. Second plan check returned to developer 4/7/15. Awaiting revised plans. (6/5/15)
MC 2151	2070 Maple Ave	6 Single Family Homes	Plans received and plan check fees paid 2/20/14. Permit lapsed, re-opening fees paid on 3/18/15. Installed 2 - 2" services on 3/31/15, and 6 - 1" meters on 4/7/15. Construction and inspections to continue. Awaiting backflow installation and testing. (6/5/15)
MC 2152	743 W. 20th St	4 Single Family Homes	Plans received and plan check fees paid 2/20/14. Plan check completed and permit issued 3/24/15. 2 1" services installed on 6/3/15. Awaiting developer to request inspection. (6/5/15)
MC 2162	3150 Harbor Blvd.	Raising Canes Chicken	Plans received and plan check fees paid 3/31/15. Fees paid on 5/15/15. Permit issued on 5/20/15. (6/5/15)
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. Second plan check in progress. (6/5/15)
MC 2167	1550 Scenic	Tenant Improvement	Plans received and plan check fees paid 4/30/15. First plan check returned on 5/27/15. Awaiting submittal of revised plans. (6/5/15)
MC 2168	650 Hamilton	24 Single Family Homes	Plans received and plan check fees paid 4/30/15. First plan check returned on 5/21/15. Second plan check in progress. (6/5/15)

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Project Title: OC-44 Transmission Main Leak

File No.: MC 1977

Description: Replace damaged section of pipeline

Status: Notice of intent to issue permit was granted by California Coastal Commission on 3/14/13. Staff is working on preparing a plan to monitor the disturbed area. Requested RBF to review the Habitat Restoration Plan and provide recommendations 7/2/14. Working with RBF on developing Permit Application and CEQA documents for OC-44 repair and proposed slip-lining project (see below OC-44 Replacement & Rehabilitation Evaluation & Cathodic Protection Study MC 2034)

Project Title: Project Management Guidelines

File No.: MC 2043

Description: Develop Project Management Guidelines

Status: RFP released on 8/7/2013. Pre-proposal meeting held 8/14/13; 4 proposals received on 9/4/2013. Interviews held on 9/13/14. Consultant recommendation approved by E&O committee 9/24/13 and Board on 10/10. Kickoff meeting held on 12/18/13. Draft CIP guidelines received 2/6/14. CIP guidelines draft workshop held on 4/3/14. RFP Policy update workshop held 4/16/14. Updated Draft CIP guidelines received 4/15/14. Streamlined Draft CIP Guidelines delivered 6/17/14. Revised CIP Guidelines and CIP Project Management Plan templates received on 9/11/2014, and require an additional iteration. Updated CIP Guidelines presented at the February E&O Committee. Received CIP Guidelines manual. Developing CIP training materials for training of the Engineers in May 2015. Received first draft of Acquisitions PM Guidelines on 4/5/2015. Engineers received CIP Project Management training on May 14 and May 28.

Project Title: District Engineering Services for East Orange County Water District

File No.: MC 2051

Description: Provide District Engineering services to East Orange County Water District

Status: Sent draft RFP for consultant review for Master Plan Update and Feasibility Study for new water treatment plant on 11/6/13. Additional analysis to predict the cost of imported water in progress. RFP release approved by EOCWD Board on March 20, 2014. Final RFP Released May 2, 2014. Interviews of 4 proposers were held on June 5, 2014. Recommendation for the Master Plan and treatment plant study was awarded to Carollo Engineers and approved by EOCWD Engineering Committee on June 17, 2014. Interviews with candidate Project Managers held on September 4, 2014. Assisting EOCWD with 6 MG reservoir seismic analysis. Assisting with review of

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
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customer development projects. Staff supported kickoff of EOCWD Peter's Canyon Water Treatment Plan Feasibility Study and Master Plan Updates on September 24, 2014, and Master Plan Criteria Selection meeting on October 7, 2014. Scope of the project was changed to include condition assessment and recommendations for Peter's Canyon Reservoir. Project Workshop and Board Engineering Committee Meetings to review the Basis of Design and the Condition Assessment Plan were held on January 13, 2015. The draft Reservoir Evaluation, and Water System Condition Assessment were received on January 30, 2015. A workshop to review these documents and the Treatment Technology Evaluation was held on February 13, 2015 to prepare for Engineering Committee Meeting held on March 10, 2015.

Project Title: MWRP Finished Water Quality Polishing Project

File No.: MC 2039

Description: Enhance finished water quality water at the MWRP 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 MWRP 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. Working with Carollo on finalizing the contract and scheduling the kickoff meeting (6/8/15).

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Project Title: OC-44 Replacement & Rehabilitation Evaluation & 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 & 3 reviewed by Mesa Water® & City of Huntington Beach. Revised TM 1 & 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 & 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 predesign 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. Design in progress. 90% design submittal expected received on 2/5/15. Mitigated Negative Declaration will be brought to Board at future E & O Committee for consideration of approval. 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

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

June 2015

Huntington Beach and comments provided to RBF on 6/1/15. 100% design package expected to be submitted on 6/19/15.

Project Title: Well Automation and Rehabilitation

File No.:

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 expected on July 18, 2015.

Project Title: Well 9 Evaluation- Change Order 1 to Well Automation and Rehabilitation project

File No.:

Description: Comprehensive cost/benefit evaluation and planning for Well 9

Status: Change Order 1 to Well Automation and Rehabilitation Project issued on 10/23/14 to provide comprehensive evaluation and recommendations for Well 9. Kickoff held on 10/24/14. OCWD provided requested aquifer information on 11/3/14. Evaluation recommended rehabilitation of existing Well 9 and placement of pump at 300' below ground to account for predicted aquifer drawdown levels at 500,000 AF overdraft. Design of rehabilitation and pump specification are in process. Change Order 2 issued to Carollo on 12/15/14 for Well 9 Design scope. Draft Well Rehabilitation design package and pump procurement design package were received on January 16, 2015. Draft combined Request for Bid (RFB) for well rehabilitation, pump procurement,

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

June 2015

and pump installation was received on February 3, 2015. The RFP was released to six recommended contractors on February 24, 2015. A job walk was held on March 5 with four contractors. Bid opening is held on March 16, 2015. Three bids were received. A contract was awarded to General Pump, the low bidder, on March 30, 2015. Pre-construction meeting was held on March 27, 2015. Well video to diagnose camera port damage conducted on April 1, 2015, and viewed on April 5, 2015. Well screens cleaned May 1-May 11, 2015. Well redevelopment and pumping tests planned for May 25-June 4, 2015. Well 9 progress report provided at May 19, 2015 E&O Committee meeting.

Project Title: Two New Wells

File No.:

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. One site is under consideration.

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 & 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 & O Committee accepted the conceptual design and provided comments on 5/19/15.

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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 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 RBF on addressing final comments 6/8/15. Project is scheduled for construction bid solicitation on June 17, 2015.

Project Title: Reservoir 1 and 2 and Well 5 Improvements

File No.: MC 2111

Description: Installation of gas flow meters at Reservoir 1, Reservoir 2, and Well 5

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

1. Design and specifications for installation of gas meters for Res 1, Res 2, and Well 5,
2. 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. Staff is reviewing the submittal.

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

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
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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. Deliverables describing non-destructive and destructive testing procedures scheduled for submittal on June 17, 2015.

Project Title: Fall Protection Implementation

File No.: MC 2129

Description: Implement recommendations from Fall Protection evaluation.

Status: Developing project schedule and recommendations for procurement. Identifying qualified contractors for design-build for construction of guardrails and access gates. Developing scope of services. Job walk conducted on March 25, 2015, with Versatile Fall Protection to identify options for closing the fall protection audit findings. Initial recommendations and cost estimate received on April 8, 2015. Continuing to evaluate feasibility and cost of options, as well as options for project delivery. Finalizing fall protection contract with Versatile Fall Protection for design and construction.

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.

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® is coordinating with Engineering Resources Mechanical on signing the contract and obtaining insurance certificates.

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

June 2015

Project Title: MRWF SCADA and Backup Power Reconfiguration

File No.: MC 2172

Description: Reconfigure the existing power supply to include the SCADA server to the standby generator.

Status: Mesa Water® is coordinating with Brithinee Electric on signing the contract and obtaining insurance certificates.

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® continuing to coordinate with the City, Stivers and Associates, Inc., and City Designer on layout of project.

Project Title: Other Agency Project Coordination

File No.:

Description: Water main relocation in New Hampshire Ave. 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. Waiting for OCFDC to bid work and initiate start of project.

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
June 2015

Project Title: Other Agency Project Coordination

File No.:

Description: Water main relocation due to proposed improvements at the Performing Arts Center.

Status: Mesa Water staff is coordinating with Pacific Arts Center and RBF (designer) on relocation of 12" water main. Coordination meeting with Performing Arts Center and RBF held on 8/5/2014. Additional information regarding the proposed type of trees and root barrier submitted on August 28, 2014. Submittal was received and comments provided. Revised submittal received on 10/6/14. Staff is reviewing the submittal and coordinating with RBF and Performing Arts Center (11/6/14). Project on hold due to C.J. Segerstrom's review until April/May 2015.

Water Quality Call Report

May 2015

Date: 5/14/2015
Source: Phone/Visit
Address: 2101 Placentia
Description: Restaurant manager was getting complaints from customers that water tasted bad.
Outcome: The restaurant was serving water from the soda machine. Samples were taken from the soda machine, kitchen sink, and outside hose-bib. All results were normal. Customer was advised to perform maintenance per manufacturer specifications.

Date: 5/14/2015
Source: Phone/Visit
Address: 1644 Iowa
Description: Customer thinks chlorine levels from showers are causing rashes and skin break-outs.
Outcome: Samples were taken from upstairs shower and outside hose-bib. Chlorine levels were normal.

Date: 5/18/2015
Source: Phone
Address:
Description: Customer wants to know the chloramine level in the distribution system and was looking for it on the CCR.
Outcome: Explained to customer that chloramine level is reported as chlorine residual in the CCR.

Date: 5/21/2015
Source: Phone
Address: 3367 Larkspur St.
Description: Customer has not received 2014 CCR and has concern about phosphorus levels in the water.
Outcome: Mailed a copy of the 2014 CCR to customer.

Date: 5/22/2015
Source: Phone
Address: 1035 Concord St.
Description: Customer wants to know what we recommend for water softener.
Outcome: Explained to customer that we monitor the water to make sure it meets state and federal standards. There is no health standard for hardness. Water softening is optional and based on personal preference. No preferred method was recommended to customer.

Date: 5/27/2015
Source: Phone
Address: Raleigh/Wilson
Description: Customer inquired about Mesa Water® vending machine as well as other water vending machines and wanted to know what they remove. She was also concerned about effects of chloramine on aquatic life.
Outcome: Provided information about Mesa Water® vending machine and explained to customer that we do not have information on other vendor's water vending machines. Explained to customer about chloramines and recommended that customer call pet/aquarium experts for more information and guidance on effects of chloramine on aquatic life.

Date: 5/27/2015
Source: Phone
Address:
Description: Customer wants to know how much sodium is in the water.
Outcome: Referred customer to the 2014 CCR.

Date: 5/27/2015
Source: Phone/Visit
Address: 1634 Ohms Way
Description: Customer describes "simple green" smell when running hot water.
Outcome: Upon arriving customer informed us that another employee had poured a significant amount of simple green down the drain. Water was tested from the sink and in front of the property. All results were normal.

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

ENGINEERING & OPERATIONS COMMITTEE

Policy Assignments for 2015

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. 1452	10/09/14	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, 2014 - May 31, 2015

Operations Department Status Report	Wk Unit	Plan Days	Act Days	Plan Qty	Act Qty	Plan Cost	Actual Cost
01 - HYDRANTS							
101 - HYDRANT MAINTENANCE	HYDRANTS	154	99	3079	1924	\$131,698	\$76,283
102 - HYDRANT PAINTING	HYDRANTS	12	8	389	214	\$9,738	\$6,413
103 - HYDRANT REPAIR	HYDRANTS	47	45	55	54	\$50,731	\$41,947
104 - DAMAGED HYDRANT	HYDRANTS	0	33	0	25	\$0	\$43,396
Program 01 TOTAL		213	185			\$192,167	\$168,039
02 - VALVES							
201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	0	46	0	934	\$0	\$38,462
202 - NIGHT VALVE MAINTENANCE	VALVES	0	0	0	0	\$0	\$0
203 - REPLACE VALVE BOX	BOXES	23	6	28	8	\$21,471	\$5,098
Program 02 TOTAL		23	52			\$21,471	\$43,560
03 - METERS							
301 - NEW METER INSTALLATION	METERS	9	17	46	190	\$24,610	\$53,830
302 - RAISE REPLACE METER BOX	BOXES	27	17	69	75	\$29,175	\$16,000
303 - METER LEAK INVESTIGATE/REPAIR	INV/REP	18	25	138	153	\$16,958	\$23,158
304 - METER FLOW TEST	TESTS	1	1	5	4	\$772	\$826
305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	55	66	109	127	\$55,671	\$53,896
306 - LARGE METER TEST/REPAIR - C	TESTS	8	6	55	28	\$19,083	\$4,633
Program 03 TOTAL		118	132			\$146,269	\$152,343
04 - MAIN LINES							
401 - MAIN LINE REPAIR	REPAIRS	66	38	11	17	\$62,765	\$31,704
402 - AIR VAC MAINTENANCE/REPAIR	AIR VACS	14	5	72	31	\$13,194	\$4,710
404 - DEAD END FLUSHING	LOCATIONS	6	0	278	0	\$4,203	\$0
Program 04 TOTAL		86	43			\$80,162	\$36,414
05 - SERVICE LINES							
501 - SERVICE LINE REPAIR	REPAIRS	50	46	13	17	\$49,997	\$40,160
502 - ABANDON SERVICE LINE	SERVICES	13	2	4	2	\$10,509	\$1,837
503 - RELOCATE SERVICE LINE	SERVICES	7	6	2	6	\$7,118	\$5,129
Program 05 TOTAL		70	54			\$67,624	\$47,126
06 - CAPITAL							
CAV - CAPITAL AIR VACUUM REPLACE	AIR VACS	3	0	5	0	\$3,986	\$0
CBI - CAPITAL BYPASS & METER INSTALL	REPLACE	24	0	2	0	\$31,623	\$0
CFH - CAPITAL HYDRANT UPGRADE	HYDRANTS	64	135	9	21	\$80,900	\$164,010
CHV - CAPITAL HYDRANT VALVE	VALVES	18	18	18	3	\$24,797	\$16,559
CLM - CAPITAL LARGE METERS	METERS	26	21	197	95	\$97,601	\$53,447
CMV - CAPITAL MAINLINE VALVE REPLACE	VALVES	63	150	14	28	\$83,743	\$149,376
CSL - CAPITAL SERVICE LINE REPLACE	SERVICES	23	6	9	1	\$26,071	\$5,221
CSM - CAPITAL SMALL METERS	METERS	68	115	1268	1080	\$148,401	\$152,331
CSS - CAPITAL SAMPLE STATION REPLACE	STATIONS	9	11	9	9	\$10,145	\$10,851
Program 06 TOTAL		298	456			\$507,267	\$551,795
TOTAL						\$1,014,960	\$999,277



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Engineering and Operations Manager
DATE: June 16, 2015
SUBJECT: Municipal Water District of Orange County Activities Update

RECOMMENDATION

This report is for information only. No action is recommended at this time.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #3: Be financially responsible and transparent.

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

Metropolitan Water District's (MET) Conservation Budget Increase and Turf Removal

Program Modifications: On May 26, 2015, the MET Board of Directors approved a \$350 million increase to its water conservation program bringing the total program budget to \$450 million for FY 2014/15 and FY 2015/16. Included in the Board's action were program modifications to the Turf Removal Program. The program modifications are as follows:

- Residential - \$2/square feet (sf) with a maximum of \$6,000
- Public Agency - \$2/sf under 3,000 sf and \$1/sf over 3,000 sf with a maximum of \$50,000
- Commercial - \$1/sf with a maximum of \$25,000
- No pre-approvals will be given in excess of the new adopted budget limit
- Staff will administer separate budget limits for the device rebate program and the Turf removal program
- Annual caps for Commercial and Public Agency projects with lifetime caps for residential projects



The increases in the conservation budget and program modifications are to address the tremendous public participation in MET's conservation program, in particular the turf removal program in light of the drought. The number of applications Metropolitan has received over the past month is unprecedented. The action taken by the Board was to continue funding the program but, also to seek program modifications to reach as many residents and businesses as possible.

MET's 2015 Integrated Resources Plan (IRP): MET has announced the schedule and process for updating its IRP which was first developed in 1996. The IRP is MET's comprehensive long-term strategy plan that identifies and evaluates the District's resources and development needs. This report will establish water resource targets, goals, and measure long-term water reliability.

The IRP Process is split into two-parts:

- Resource Policy Discussion – IRP MET Board Subcommittee meetings were held on April 28th & May 26th
- Technical Update Process – MET and Member Agency staff meetings were held on April 22nd, May 18th & May 26th

Next Steps:

- Member Agency Workgroup - June 11th
- Water Use Efficiency Meeting - June 18th
- IRP Committee Meeting - June 23rd
- Member Agency Workgroup - June 24th

LAST MONTH'S ISSUES

Drought Disaster Declaration & Finance: Agencies interested in participating in tracking costs for potential drought disaster funding need to communicate their interest to MWDOC. Due to the fact that there is no precedent for requesting reimbursement for drought related costs, high participation in the region will be the key to being successful as there is a \$9M threshold for the county.

MWDOC Drought Allocation: The months of March and April provided very little precipitation and snow. Due to exceeding high temperatures during this winter season, the Northern Sierra snowpack reached a record low of only 5% of normal for the winter period. Based on these conditions, the Governor issued an Executive Order asking for all urban retail water agencies throughout the state to reduce their retail demands to achieve a statewide reduction of 25% over a nine month period, effective June 1. Governor Brown asked the State Water Resource Control Board to determine the reduction levels for each retail water agency based on their 2013 per Capita water usage (GPCD). Earlier this month, the State Control Board issued a nine-tier system with mandatory reductions ranging from 8% to 36%.

On April 14th, the MET Board declared a Regional Water Shortage and implemented its Water Supply Allocation Plan at a stage level 3 (roughly 15% imported water reduction). This reduction



level was determined based on the expected demands, supplies, and the estimated usage of storage for this year and next year, assuming water conditions continue to be dry. The effective date of water supply allocations will begin on July 1, 2015 and end on June 20, 2016.

State Water Resource Control Board (SWRCB) Proposed Fee Structure/Increase: Since assuming the Drinking Water Program on July 1, 2014, the SWRCB has conducted a fiscal analysis of the program. The fiscal analysis revealed that (1) the current fee structure is not generating sufficient revenues to support the existing program and (2) the current fee structure appears to be unreliable, unsustainable, and inequitable. This is partially due to the fact that the CDPH did not consistently raise fees each year by the five percent cap, resulting in a revenue shortfall each year and currently not meeting program expenditures.

In order to address the problems, and create a drinking water regulatory program fee structure that is reliable, fair, and sustainable; the SWRCB recommends statutory changes that would align the drinking water fee process with the SWRCB's existing water quality and water rights fee processes. The statutory changes would give the SWRCB authority to adopt annual fee schedules to conform to the revenue levels authorized in the Budget Act in any given year for the SWRCB's Division of Drinking Water. The SWRCB would be provided with emergency regulatory authority for this process. This approach would be consistent with the manner in which the SWRCB currently assesses fees for its water quality regulatory program and its water rights regulatory program.

The Trailer Language in the BCP would give the SWRCB the authority to adopt annual fee schedules through emergency regulatory authority to meet the SWRCB's Drinking Water Program Budget Authority.

UPCOMING ISSUES

- Emergency Drought Regulations
- MET – Integrated Resource Planning
- Local Resource Planning - Desalination

FINANCIAL IMPACT

There is no financial impact.

ATTACHMENTS

None.



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Engineering and Operations Manager
DATE: June 16, 2015
SUBJECT: Orange County Water District Activities Update

RECOMMENDATION

This report is for information only. No action is recommended at this time.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #3: Be financially responsible and transparent.

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 Consolidated 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

Santa Ana Watershed Project Authority (SAWPA) Fiscal Years 2015-16 and 2016-17

Budgets: The SAWPA General Manager gave a presentation on the FY 2015-16 and 2016-17 budgets. The District's annual contribution to SAWPA would decrease from the current \$330,000 to \$269,559 for FY 2015-16 and increase to \$287,861 for FY 2016-17. Director Bilodeau inquired as to how much employees currently contribute to their retirement benefits. SAWPA currently pays the entire amount of retirement benefits for their employees. SAWPA is in the midst of a Contracts & Benefits study, which was presented to the sub-committee on June 3rd. The sub-committee will take the information into consideration and she is hopeful that a recommendation will be forthcoming to the Commission. Director Bilodeau stated that he had requested that SAWPA look into these issues two years ago and he is disappointed at the lack of progress. Director Bilodeau made a motion which was seconded by Director Flory to defer approval of the budget and withhold agency contributions until the Commission has made a decision. Motion was approved.



Groundwater Remediation Monthly Status Update:

North Basin –

1. Northrop/OCBC Communication – Information was provided to OCBC reporting the comments of directors at the last Board meeting. OCBC was informed that OCWD Board members said:
 - a. That the requirement for the USEPA to take a year off as a precondition to an OCWD/Northrop meeting was unreasonable.
 - b. Board members considered Northrop's selection of individual board representatives to be presumptuous.
2. NCP Work – Kennedy/Jenks work is ongoing.
3. Draft EPA Oversight Agreement – Staff spoke with John Lyons with the USEPA asking for a status and timelines for receipt of the draft North Basin Administrative Order on Consent (a.k.a. AOC or oversight agreement). Mr. Lyons stated that they are still working out logistics with DTSC. There has been a slight shift in thinking to have a multi-lateral group agreement rather than a bi-lateral agreement which Mr. Hunt feels could slow the process down.
4. North Basin Groundwater Protection Project (NBGPP) Extraction Wells with Discharge to the Industrial Customer – OCWD is working with the City of Fullerton in the development of an alternative end use of extracted water from EW-1 as industrial water for a large manufacturing facility. A meeting is tentatively scheduled with the corporate environmental managers of that company in mid-June.

South Basin –

1. NCP Work – Hargis & Associates work is ongoing.
2. IRWD Meeting – Staff met with IRWD on Monday June 1st to provide an update on the South Basin conditions and to discuss IRWD's water development plans for that area.

LAST MONTH'S ISSUES

Public Hearing to Consider Groundwater Management Plan 2015 Update: A presentation of the Groundwater Management Plan 2015 update was provided. The last GWMP update was completed in 2009 and it is a requirement for the state to allocate grant funds or loans for groundwater-related projects. The 2015 plan includes updated figures and maps; a list of accomplishments since the last update and the addition of new material in response to the passage of the Sustainable Groundwater Act. On June 10th a final draft of the plan will be presented to both the Water Issues Committee and the Groundwater Producers with the Board considering adoption of the plan on June 17, 2015.

Partial Release Agreement with Evoqua Water Technologies LLC: In 2008 OCWD began to



notice a failure trend of microfiltration headers where welding failed under stress. The District has been in discussions with Evoqua regarding a remedy and they have agreed to the following:

- OCWD will assume the past 6 years of repairs valued at \$120,000
- Evoqua will provide 24 newly designed microfiltration headers and associated hardware valued between \$700,000 and \$1,000,000.
- OCWD will install the new microfiltration headers over time to minimize the down time.

UPCOMING ISSUES

- Groundwater Management
- Poseidon
- North/South Basin

FINANCIAL IMPACT

There is no financial impact.

ATTACHMENTS

None.

There are no support materials for this item.

REPORTS AND INFORMATION ITEMS:

12. REPORT OF THE GENERAL MANAGER:

REPORTS AND INFORMATION ITEMS:

13. DIRECTORS' REPORTS AND COMMENTS:



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Engineering and Operations Manager
DATE: June 16, 2015
SUBJECT: On-Call Design and Construction Management Services

RECOMMENDATION

Information item

STRATEGIC PLAN

Goal #2: Practice perpetual infrastructure renewal and improvement.

PRIOR BOARD ACTION/DISCUSSION

On September 12, 2013, the Board approved three contracts for \$100,000 per year for two years for On Call Design Services with R. Brady and Associates, RBF- A Division of Michael Baker International, and Leidos.

On October 10, 2013, the Board approved three contracts for \$100,000 per year for two years for On Call Construction Management Services with MWH Constructors, Butier, and Leidos.

On February 12, 2015, the Board approved \$100,000 in additional funding to the On-Call Design budget.

DISCUSSION

Mesa Water® will be facilitating construction of small to medium size capital improvement projects over the next few years that will require the assistance and expertise of professional services firms for design and construction management. These projects will consist of design and construction of improvements to Mesa Water's distribution, treatment, and reservoir facilities that are larger in scope than can be handled by internal engineering staff. These projects typically consist of pipeline design for City of Costa Mesa capital improvements, surveying, structural analysis, mechanical and electrical design, traffic analysis, environmental-related services, hydraulic modeling, and construction management.

Mesa Water's existing as-needed design services contracts expire on September 30, 2015; as needed construction management contracts expire on October 30, 2015. A Request for Proposal is being developed that combines the as-needed design and construction management contracts into a comprehensive professional services procurement. Proposals will be solicited from qualified full-service professional engineering firms. Three firms will be recommended for consideration at a future Engineering & Operations Committee meeting.

FINANCIAL IMPACT

\$150,000 and \$100,000 was budgeted for on-call design and on-call construction management, respectively, in FY 2015. \$89,390 and \$18,182.43 was expended for on-call design and on-call



construction management, respectively, in FY2015. The FY2016 budget includes \$150,000 for combined on-call design and construction management services.

ATTACHMENTS

None.