



*Dedicated to
Satisfying our Community's
Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, December 18, 2018
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Special Board Meeting**

**ENGINEERING AND OPERATIONS COMMITTEE MEETING
Tuesday, December 18, 2018 at 3:30 p.m.**

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

Items Not on the Agenda: Members of the public are invited to address the Board on items which are not on the agenda. Each speaker is limited to three minutes. The Board will set aside 30 minutes for public comments.

Items on the Agenda: 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 three minutes. The Board will set aside 60 minutes for public comments.

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
5. Water Operations Status Report

ACTION ITEMS:

None

PRESENTATION AND DISCUSSION ITEMS:

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

6. Abestos Testing Update

REPORTS:

7. Report of the General Manager
8. 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.

Members of the public desiring to make verbal comments utilizing a translator to present their comments into English shall be provided reasonable time accommodations that are consistent with California law.

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 2149	1620-1644 Whittier Ave and 970 16th Street	89 Single Family Homes	Plans received and plan check fees paid 2/2/14. 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-thru tested on 8/25/16 and 9/8/16. Rock base and meters installed on 11/3/16. Flow-thru check on 12/1/16. Flow-thru check on 4/5/17. Meters installed on 8/21/17. Meter box placement on 10/5/17. Meters installed on 4/25/18. Meters installed 6/28/18 and again on 8/13/18. (12/10/18)
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 7/21/16. Services installed and locked off on 9/6/16. Meter installation on 10/28/16. Backflows tested on 11/16/16. Backflow tested on 12/9/16. Rock base on 2/1/17. Service placement on 2/16/17. Meters installed on 3/28/17. Backflows tested on 3/30/17. Meters installed and locked off on 2/20/18. Awaiting call for backflow testing to complete project. (12/10/18)
MC 2233	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. Mainline charged on 10/17/16. Angle stop adjusted on 12/6/16. Meter and meter box placement on 1/5/17. Services adjusted to grade on 3/2/17. Meter installation on 5/3/17. Site coordination meeting on 7/26/17. Service placement on 9/6/17. Meter box placement on 2/9/18. Meters installed and locked off on 5/21/18, 6/28/18, 7/13/18, 8/8/18, and again on 10/10/18. Concrete pads placed on 10/24/18 and 10/25/18. Meters installed on 12/4/18. (12/10/18)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2235	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. Mainline installation on 12/6/16. Service laterals installed on 1/9/17. Pressure test on 2/6/17. Bac-t test on 2/15/17. Bedding and service line placement on 4/3/17. Meter box placement on 5/8/17. Follow-up site visit on 5/17/17. Service abandonment on 8/30/17. Valve cans raised on 9/22/17. Meter box placement on 10/19/17. Gravel base on 12/5/17. Meter box placement on 2/14/18. Meters installed and locked off on 6/1/18, 7/17/18, on 8/1/18, and again on 9/7/18. Backflow tested on 9/11/18. Meters installed and locked off on 9/18/18, 9/25/18, and again on 10/5/18. Backflow tested on 10/9/18. Meters installed and locked off on 11/27/18, and 12/5/18. (12/10/18)
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. Fees paid and permit issued on 1/6/17. Pre-con held on 1/16/18. Service installed on 3/8/18. Meters installed and locked on 3/13/18. Awaiting call for backflow testing to complete project. (12/10/18)
C0012-17-02	929 Baker Street	55 Detached Condos	Plans received and plan check fees paid on 9/27/16. Plans picked up on 10/18/16. Plans submitted on 2/22/17. Plans returned on 3/6/17. Fees paid and permit issued on 3/21/17. Precon held on 6/1/17. Services installed on 8/31/17. Mainline turned on 9/14/17. Meters installed and locked on 2/26/18. Awaiting call for backflow testing to complete project. Meters installed and locked on 8/6/18. Backflow tested on 8/24/18. Site check done on 9/25/18, homes are still under construction. Meters installed and locked off on 11/2/18. (12/10/18)
C0014-18-01	1585 MacArthur	Commercial Building	Plans received and plan check fees paid on 3/27/18. Comments returned on 4/5/18. Awaiting resubmittal. Plans approved, final fees paid and permit issued on 8/7/18. Construction inspections are currently in progress with mainlines being excavated on 8/29/18, 9/5/18, 9/6/18. Backflow for fireline installed on 9/12/18. Service abandonments completed on 10/16/18. (12/10/18)
C0027-17-01	231 Flower Street	Meter Upgrade	Plans received and plan check fees paid on 3/23/17. Fees paid and permit issued on 4/21/17. Site visit on 10/30/17, and again on 5/30/18; no progress to report. Site visit on 8/20/18 and 9/25/18 with no activity. (12/10/18)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0029-17-01	127 23rd Street	4 Single Family Homes	Plans received and plan check fees paid on 5/12/17. Fees paid and permit issued on 8/3/17. Awaiting call for initial inspections. Service installed on 2/8/18. Meters installed and locked on 2/15/18. Awaiting call for backflow testing to complete project. Spoke to property owner on 10/10/18, construction will be done by the end of 2018 to test flowthru system. (12/10/18)
C0030-17-01	208 Camellia Lane	New Home	Plans received and plan check fees paid on 5/12/17. Fees paid and permit issued on 5/25/17. Service installation on 6/8/17. Meter box placement on 9/8/17. Backflow tested on 12/10/18; project will be closed pending paperwork. (12/10/18)
C0035-18-01	146 18th Street	2 Single Family Homes	Plans received and plan check fees paid on 8/8/17. Fees paid and permit issued on 9/21/17. Meters installed and locked on 10/20/17. Site visit on 1/9/18; Awaiting call for backflow testing to complete project. (12/10/18)
C0037-18-01	2850 Mesa Verde Drive East	11 Single Family Homes	Plans received and plan check fees paid on 8/17/17. Fees paid and permit issued on 10/18/17. Manifold installation on 12/6/17. Meters installed on 12/29/17. Irrigation meter installed on 3/28/18. Backflow test on 4/18/18. Meters placed and locked on 5/31/18. Site visit done to verify progress on 8/20/18. Meters installed on 9/21/18. (12/10/18)
C0039-18-01	172/174 Costa Mesa Street	2 Single Family Homes	Plans received and plan check fees paid on 8/22/17. Fees paid and permit issued on 8/29/17. Awaiting call for initial inspections. Construction to start in January 2019. (12/10/18)
C0040-18-01	365 Costa Mesa Street	Meter Upgrade	Plans received and plan check fees paid on 8/22/17. Awaiting final fee payment. Site check on 8/20/18 and 9/25/18 to verify progress and house is currently being built. Meter upgraded on 11/5/18. (12/10/18)
C0041-18-01	160 & 162 E 18th Street	2 Single Family Homes	Plans received and plan check fees paid on 9/27/17. Fees paid and permit issued on 11/2/17. Meters installed and locked on 3/26/18. Meters installed and locked on 6/28/18. Backflow tested on 10/29/18. (12/10/18)
C0042-18-01	335 & 337 16th Place	2 Single Family Homes	Plans received and plan check fees paid on 10/26/17. Final fees paid on 8/8/18. Site visit on 8/20/18 to verify that work had not been started without our knowledge; contractor still grading the area. (12/10/18)
C0044-18-01	276 E 19th Street	Meter Upgrade	Plans received and plan check fees paid on 1/21/18. Awaiting final fee payment. (12/10/18)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0047-18-01	3505 Cadillac Avenue	Commercial Building	Plans received and plan check fees paid on 1/22/18. Fees paid and permit issued on 4/10/18. Services placed on 5/2/18. Thrustblocks placed on 6/6/18. Pressure test performed on 7/9/18. Construction still in progress. (12/10/18)
C0048-18-01	235 Baker	Commercial Building	Plans received and plan check fees paid on 2/15/18. Fees paid and permit issued on 4/13/18. Site visit on 8/20/18 to verify work status; no construction. (12/10/18)
C0049-18-01	428 E 17th Street	Restaurant	Plans received and plan check fees paid on 1/26/18. Fees paid and permit issued on 5/4/18. Pressure test on 5/25/18. Shutdown for tee cut-in on 6/5/18. One fire service is active, the other is stubbed to property. Awaiting call for fireline pressure test and samples. Water service manifold stubbed to property. Pressure test and Bac-T tests done on 9/7/18, 9/11/18 and again on 9/13/18. Pressure test performed on 10/22/18. (12/10/18)
C0051-18-01	1650 Monrovia	Senior Living Complex	Plans received and plan check fees paid on 2/15/18. Comments returned on 3/12/18. Revised submittal received on 4/24/18. Project to undergo hydraulic model analysis. Second plan check complete. Easements recorded on 8/14/18. Final fees paid on 8/23/18. Precon meeting held on 9/26/18. Fireline excavation and thrustblock placement on 11/27/18. (12/10/18)
C0052-18-01	302 Cabrillo	2 Single Family Homes	Plans received and plan check fees paid on 2/26/18. Fees paid and permit issued on 5/7/18. Awaiting initial calls for inspections. (12/10/18)
C0053-18-01	1908 Tustin	Single Family Home	Plans received and plan check fees paid on 3/8/18. Fees paid and permit issued on 3/13/18. Awaiting initial calls for inspections. (12/10/18)
C0054-18-01	3505 Cadillac Unit O-101	Commercial Building	Plans received and plan check fees paid on 5/7/18. Fees paid and permit issued on 5/22/18. Tapping sleeve, and hot tapping done on 5/2/18. Thrustblock placement inspections on 5/2/18, 6/6/18, and 7/9/18. Pressure test done on 7/9/18. Fireline turned on 9/12/18. (12/10/18)
C0056-18-01	2033 Republic Avenue	Single Family Home Service & Meter Upgrade	Plans received and plan check fees paid on 6/19/18. Comments returned for second plan check review on 7/26/18. Awaiting owners next submittal. (12/10/18)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0058-18-01	585 & 595 Anton Boulevard	Apartment Complex	Plans received and plan check fees paid on 6/8/18. Currently in plan check. Meeting scheduled with owner on 9/12/18 to go over questions they have. Plans approved to perform demolition for grading only at this time; construction plans are being reviewed. Operations is currently working on practice shutdowns for service connection tie-in. (12/10/18)
C0060-19-01	3505 Cadillac Avenue, Unit F-9	Commercial Building New Fire Line	Plans received and plan check fees paid on 7/23/18. Permit issued for major service line and fire systems infrastructure. Final permit will be reviewed when tenant improvements are submitted. Fireline excavation and thrustblock placement on 12/10/18. (12/10/18)
C0061-19-01	3033 Bristol Street Space 2071	Restaurant Expansion	Plans received and plan check fees paid on 8/2/18. Awaiting final payment of fees. (12/10/18)
C0062-19-01	1591 & 1593 Riverside	Meter Upgrade	Plans received and plan check fees paid on 8/21/18. Currently in plan check. (12/10/18)
C0064-19-01	1975, 1977, 1981, 1985 Placentia Avenue	Commercial Building	Plans received and plan check fees paid on 11/6/18. Currently in plan check. (12/10/18)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

December 2018

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

File No.: M 2034

Description: Evaluate potential repair and replacement options

Status: 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 forwarded to all agencies, including the 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. Project approved at CCC Public Hearing on 12/7/16. MBI is working on finalizing the HMMP and construction plans and will submit them to CCC. Staff met with MBI on 5/1/17 and discussed comments after reviewing the draft final HMMP. New proposed mitigation criteria received from CCC on 7/5/17 reducing mitigation requirements from 1.6 acres to 0.66 acres. Coastal Development Permit for Construction is anticipated in December, 2017. The project re-start meeting was held on 9/7/17. On 10/30/17 met with City of Newport Beach and City of HB to discuss permit requirements and project access. Met w/Fletcher Jones, Skender Construction, City of HB, MBI to discuss access to the site and scheduling on November 21, 2017. Reviewing the 100% Design Plans & Specs (received on 11/28/17) along with the Pipeline Design Schedule, Construction Monitoring Treatment Plan (CMTP), and proposal for Natural Resources/Regulatory Services during construction activities. Bid solicitation is scheduled for late January 2018. Project sent out to bid on January 30, 2018. Pre-bid meeting held on 2/15/18. Construction bid solicitation was cancelled due to ongoing coordination issues for the final Coastal Development permit. Project was deferred to FY20. On 8/1/18, Orange County Public Works issued a one-year extension to the previously issued Encroachment Permit. The Caltrans Encroachment Permit extension application is under review as of 8/13/18. The CCC extended the permit a year without hearing. MBI moved forward with the amendment to reduce mitigation. The updated information was forwarded by MBI to CCC in the week of August 6, 2018 and November 2, 2018. The CCC hearing is expected in February 2019. (12/10/18)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

December 2018

Project Title: Well Automation and Rehabilitation

File No.: MC 2101

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

Status: Construction activities began at Well 5 on October 3, 2016 with demolition and well rehabilitation beginning in the first week. Video of Well 5 showed scale on the louvers, and potential failure of an unused sounding tube and a small area of the louvers potentially requiring swage patches. Repair completed on November 29, 2016. Well 5 rehabilitation resumed on December 3, 2016. Well 5 chemical facility pad has been constructed and is awaiting a weather forecast of 8 days with no predicted rain to apply the chemical-resistant coatings to the concrete. Well 5 pumping development began on January 4, 2017, and produced fine sand at pumping rates above 1100 gpm. Repairs were made to Well 5, and test pumping performed in February showed acceptable well production over 2500 gpm with manageable sand. Construction is substantially complete at the Well 5 site. A start up planning meeting was held on March 29, 2017. Well 5 is running as needed and producing good quality water. Well 7 rehabilitation is complete, The Well 7 pump was installed the week of August 28, 2017, and Well 7 is operational and good quality water. Construction of the Well 3 chemical facilities was begun in July 2017. The concrete for the Well 3 chemical facilities is cured and coated, and the chemical tanks and canopy are currently being installed. Well 3 rehabilitation is complete and test pumping achieved over 1600 gpm. Construction at Well 9 began in October with relocation of the backup generator and chemical facilities construction. Coating of the Well 9 chemical facilities was completed in December, and the chemical tanks and canopy are installed. Witness testing for the new pumps for Wells 3 and 9 was completed January 2018, and pumps were installed the week of June 4. Construction at Well 3 and Well 9 is substantially complete. Flushing and chlorination of Well 3 and Well 9 were conducted during in July 2018. Well 3 initial startup was on July 17, 2018. Well 9 initial startup was on July 30, 2018. Well 3 and Well 9 have completed their seven-day tests. Work at Well 1 began on August 13, 2018. Well 1 site demolition is complete. The video of Well 1 showed a biofilm. Well 1 has received brushing and airlifting of fill material, as well as acid and chlorine treatment in October 2018. Pumping redevelopment produced 2,300 gallons per minute. The Well 1 chemical facilities are constructed and the chemical tanks are set. The prefabricated electrical building was delivered and set on December 10, 2018. Construction is continuing through January 2019, and startup of Well 1 is expected in February 2019. (12/10/18)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

December 2018

Project Title: Pipeline Testing Program

File No.: MC 2141

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: Extraction of six sections of ACP and two sections of CIP are in process for 2017 destructive testing. ACP samples were sent to WSP Canada for destructive testing. Results were received on August 1, 2017. CIP samples will be sent to McWane Ductile's lab in Ohio for destructive testing. Results were received on June 30, 2017. A Request for Qualifications for consulting services for the Pipeline Integrity Testing Program was released in May 2017. Four Statements of Qualifications were received and a recommendation for contract award to HDR was approved by the E&O Committee on July 20, 2017. ACP test results were received on July 31, 2017. Results have been analyzed, and were presented at the November Committee meeting. Average ACP total useful life is expected to be approximately 142 years. A process for determining when a pipeline has reached the end of its useful life and how much of the pipeline to replace was implemented. One 8" ACP line in Harbor Boulevard from Wilson to 19th Street was recommended for replacement. Kickoff meeting for a close interval survey of the 12" Cast Iron Pipe in 19th Street was held on December 28, 2017, and the Consultant has completed the field work. The report is expected in April 2018. Operations staff has collected four ACP pipe samples during valve replacement projects, and one during an AC mainline repair. The samples have been sent to a laboratory for remaining wall thickness measurements, and the reports show that while they have lost structural thickness, the remaining useful life is still 35 - 53 years. The mainline break sample showed the smallest remaining useful life and shortest total useful life of any AC sample. Additional AC pipe samples from valve replacements are being collected. Echologics performed three miles of non-destructive wall thickness measurements during the week of February 12, 2018. A report of the results was received in March 2018. All non-destructive and destructive test data were added to GIS in April and May 2018. The mainline break map in GIS is currently being updated. A comprehensive review of cathodic protection test stations was performed in April and May 2018. The report and recommendations was received on June 20, 2018, and recommendations are being reviewed. Five AC pipe samples and nine soil samples collected during valve replacements in 2018 were delivered by the contractor and sent to labs for pipe wall thickness measurements and soil corrosivity analysis. Results show that the expected total useful life of AC pipe is approximately 138 years. Two AC pipe samples were collected during valve replacements in November 2018 and sent to the lab for wall thickness measurements. Results are expected in January 2019. Three miles of AC pipe constructed in 1956 have been selected for non-destructive wall thickness measurement, which is scheduled to occur in January 2019. (12/10/18)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

December 2018

Project Title: Mesa Water Administration Building Improvements & HVAC Replacement/Operation Building Repair Projects

File No.: MC 2171

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

Status: Request for proposals for providing Construction Management during construction was sent out to nine consultants on 8/15/18. Three proposals received on 8/28/18. Held interviews with all three proposers on 9/4/18. Jett Construction Management's (JCM) approach appeared to be the most comprehensive given their proposed project staff and HVAC and roof construction experience. Bid set documents for construction have been finalized and sent out to bid on 9/6/18. Three bids were received on 10/4/18. The lowest responsive bid was approximately \$1M over the Engineer's Estimate. On 10/22/18 Board cancelled the bid and authorized staff to negotiate with lowest bidder. On 10/26/18 RFB for Operations Building Repair Project sent out to bid with the bid opening date 11/5/18. On 11/5/18 staff finalized negotiations with the low bidder (Snyder Langston). On 11/8/18 the Board approved the Administration Building Improvements & HVAC Replacement/Operations Building Repair Projects with Snyder Langston. The contracts with Snyder were signed on 11/13/18 and Notices for Proceed issued on 12/6/18. (12/10/18)

Project Title: Chandler & Croddy Wells and Pipeline Project

File No.: M18-113

Description: Design, documentation, and permitting for two new wells located on Chandler Avenue and Croddy Way in the City of Santa Ana and the distribution pipeline connecting the wells to Mesa Water's supply system.

Status: Tetra Tech has been contracted to complete the design, documentation, and permitting for the Chandler and Croddy Wells and Pipeline Project. Initial data request sent to Tetra Tech on September 7, 2017. Met with Division of Drinking Water regarding well locations on September 20, 2017. Preliminary hydrological evaluation received on September 29, 2017. Board approved demolition of existing structures and dedicated well facility with option to evaluate long-term lease potential as market conditions dictate at both sites at November 2017 E&O. Butier Engineering has been contracted to provide Construction Management Services. Preliminary Design Report (PDR) for the distribution pipeline was reviewed and returned on March 6, 2018. Well site layouts were presented to the Board in May. DDW waiver for 50-foot control zone is currently being drafted. The revised PDR for the pipeline and the well sites was received in June 2018. A workshop to discuss review comments was held on August 14, 2018. 50% design for the Croddy Pipeline was received and the design review workshop occurred on November 26, 2018. 50% design for the wells is scheduled for submittal in December 2018. (12/10/18)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

December 2018

Project Title: Santa Ana Pressure Reducing Station Refurbishment Project

File No.: M17-002A

Description: The work will involve replacement of three (3) butterfly valves, one (1) existing pressure relief valve, precast concrete discharge structure, reconfiguring four (4) Cla-Val control valves, general refurbishments to the vault interior, and site work.

Status: Mesa Water has contracted with Michael Baker International to perform the design of the project. The design was completed in late January 2018 and the bid package was sent out to bid on February 8, 2018. Pre-bid meetings and site walk were held on 2/20/18 and 3/6/18, respectively. Three bids were received on March 13, 2018. Staff has recommended that the construction contract be awarded to J.R. Filanc, Inc., as the lowest bidder. E&O Committee recommended awarding contract to J.R. Filanc, Inc. on March 20, 2018 and Board approved it on April 12, 2018. The contract was finalized (5/1/18) and signed on 5/3/18. The kick-off meeting was held on May 21, 2018. Electrical work was completed the week of 10/15/18. Concrete work is scheduled to be completed in the week of 11/12/18. Pipeline took place between 11/26/18 and 12/1/18. Project in progress. (12/10/18)

Project Title: Meter Technology Evaluation

File No.: MC 2248

Description: The lifespan of a water meter is approximately 15 years. As a meter ages, the accuracy drops off due to wear. In preparation for its annual water meter replacement, staff has been reviewing water meter technology determining what water meter and reading solutions would be the best fit for Mesa Water's aging register technology. With today's technology, there are several types of meters and meter reading solutions available. The most common are as follows: Fixed Network, Automatic Meter Reading (AMR) System, Handheld or Touch Technology, and Advanced Metering Analytics - Cellular Endpoint.

Status: Mesa Water is preparing a Technical Memo which would include information of the existing aging metering technology in comparison with proposed new meter reading solutions. (12/10/18)

Project Title: Reservoirs 1 & 2 Chemical Systems Design

File No.: M18-117

Description: Improve disinfection and mixing in both reservoirs to improve water quality and minimize nitrification.

Status: Final Design Contract awarded to Hazen & Sawyer on February 14, 2018. 50% design report received on July 17, 2018. Design review workshop took place in September 2018. A site visit to Laguna Beach County's El Morro reservoirs occurred on November 8, 2018, to evaluate the Vortex mixing system. Staff met with the designer on December 5, 2018, to incorporate design-for-reliability and design-for-maintainability principals into the mixing system design. (12/10/18)

Water Quality Call Report

November 2018

Date: 11/2/2018
Source: Phone
Address: 950 W. 19th Street
Description: Customer was installing new dish washer and inquired about water hardness level.

Outcome: Provided customer the average and range of water hardness.

Date: 11/19/2018
Source: Phone
Address: 2813 La Salle Avenue
Description: Customer called to ask about odor coming from the drains in the bathroom and kitchen.

Outcome: Confirmed with customer that the odor was not coming from the water. Customer requested and was provided advice on disinfecting the drain using bleach.

Date: 11/30/2018
Source: Phone
Address: Not Provided
Description: Customer asked if Mesa Water fluoridates the water.

Outcome: Explained to customer that Mesa Water does not add fluoride to the water but groundwater contains natural fluoride.



COMMITTEE POLICY & RESOLUTION REVIEW

ENGINEERING & OPERATIONS COMMITTEE

Policy Assignments for 2018

Policy Name	Resolution No.	Date Adopted	Revision Schedule	Last Reviewed
Replacement of Assets Including Pipeline and Well Rehabilitation	1442	03/15/18	Review and update every 3 – 5 years	03/15/14
Rules and Regulations for Water Service	1514	07/12/18	Review and update as needed	07/12/18
Standard Specifications and Standard Drawings		05/03/18	Review and update as needed	05/03/18
Urban Water Management Plan	1477	06/09/16	Review and update as required every 5 years	06/09/16

Water Operations Status Report
July 1, 2018 - November 30, 2018

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	71	43	1421	789	\$28,707	\$15,689
WD-0102 - HYDRANT PAINTING	HYDRANTS	6	0	178	0	\$2,371	\$0
WD-0103 - HYDRANT REPAIR	HYDRANTS	22	5	25	6	\$7,093	\$2,064
Program 01 TOTAL		99	48			\$38,171	\$17,753
02 - VALVES							
WD-0201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	50	54	1010	1017	\$20,754	\$20,731
WD-0202 - NIGHT VALVE MAINTENANCE	VALVES	7	0	82	0	\$2,985	\$0
Program 02 TOTAL		57	54			\$23,739	\$20,731
03 - METERS							
WD-0301 - NEW METER INSTALLATION	METERS	11	9	78	97	\$25,568	\$42,554
WD-0302 - RAISE REPLACE METER BOX	BOXES	5	3	24	6	\$4,008	\$1,348
WD-0303 - METER LEAK INVESTIGATION/REPAIR	INV/REP	17	17	130	107	\$4,815	\$7,532
WD-0305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	30	32	60	61	\$17,789	\$11,681
WD-0306 - LARGE METER TEST/REPAIR - C	TESTS	10	2	49	5	\$4,085	\$552
Program 03 TOTAL		73	63			\$56,265	\$63,667
04 - MAIN LINES							
WD-0401 - MAIN LINE REPAIR	REPAIRS	51	11	8	3	\$23,001	\$4,298
WD-0402 - AIR VAC MAINTENANCE/REPAIR	REPAIRS	11	1	67	2	\$4,207	\$218
WD-0403 - UNIDIRECTIONAL FLUSHING	FEET	0	0	153938	0	\$0	\$0
Program 04 TOTAL		62	12			\$27,208	\$4,516
05 - SERVICE LINES							
WD-0501 - SERVICE LINE REPAIR	REPAIRS	24	27	9	15	\$9,615	\$10,641
Program 05 TOTAL		24	27			\$9,615	\$10,641
06 - CAPITAL							
CAP AV - CAPITAL AIR VACUUM REPLACE	AIR VACS	0	0	0	0	\$0	\$0
CAP BI - CAPITAL BYPASS & METER INSTALL	REPLACE	0	1	0	1	\$0	\$253
CAP FH - CAPITAL HYDRANT UPGRADE	HYDRANTS	57	57	8	8	\$46,041	\$38,064
CAP LM - CAPITAL LARGE METERS	METERS	25	19	60	60	\$70,014	\$34,348
CAP MV - CAPITAL MAINLINE VALVE REPLACE	VALVES	48	68	8	11	\$35,552	\$32,862
CAP SL - CAPITAL SERVICE LINE REPLACE	SERVICES	16	21	4	4	\$7,919	\$8,098
CAP SM - CAPITAL SMALL METERS	METERS	49	44	613	523	\$58,501	\$61,303
CAP SS - CAPITAL SAMPLE STATION REPLACE	STATIONS	0	11	0	4	0	3673
Program 06 TOTAL		195	221			\$218,027	\$178,601
TOTAL						\$373,025	\$295,909



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Tracy E. Manning, Water Operations Manager
DATE: December 18, 2018
SUBJECT: Asbestos Testing Update

RECOMMENDATION

This item is provided for information only.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #6: Provide outstanding customer service.

PRIOR BOARD ACTION/DISCUSSION

At its October 16, 2018 meeting, the Engineering and Operations (E&O) Committee requested water quality testing within the distribution system for asbestos.

DISCUSSION

Mesa Water District (Mesa Water®) produces safe, high quality water that meets all primary and secondary drinking water standards as set by the Division of Drinking Water (DDW) and the Environmental Protection Agency. Water monitoring requirements are laid out in both federal and state regulations and take place at prescribed times during each 9-year compliance cycle. A compliance cycle consists of three 3-year compliance periods. 2018 is the second year of the third period (2017—2019) of the third compliance cycle (2011-2019).

There are 110 regulated constituents, including asbestos, which currently require monitoring and reporting. Water systems that are deemed non-vulnerable to individual constituents by DDW may receive a monitoring waiver that eliminates the monitoring requirements for a compliance period or cycle. Mesa Water has been deemed non-vulnerable to asbestos for both source water and leaching from transite pipe and has received consecutive monitoring waivers, most recently for the current 2017-2019 compliance period. Vulnerability due to leaching is determined based on the presence of that pipe material in conjunction with an evaluation of the corrosivity of the water.

Samples were collected from 25 sampling taps across the distribution system on October 23, 2018 and tested for asbestos by Weck Laboratories on November 4, 2018. The maximum contaminant level (MCL) for asbestos in drinking water is 7 million fibers per liter exceeding 10um in length (MFL). All samples were non-detect (<0.2 MFL). Voluntary monitoring shall continue at the Board's direction.

FINANCIAL IMPACT

In Fiscal Year 2019, \$86,000 is budgeted for Water Quality Testing; \$3,750 has been spent for asbestos testing within the distribution system.



ATTACHMENTS

None.

REPORTS:

7. REPORT OF THE GENERAL MANAGER:

REPORTS:

8. DIRECTORS' REPORTS AND COMMENTS: