

Present: Nick Blom, MID
Stu Gilman, Vice-Chair, MID
Ted Brandvold, City of Modesto

Absent: Mani Grewall, City of Modesto
Bill Zoslocki, Chairman, City of Modesto

DOMESTIC WATER POLICY COMMITTEE

Meeting Minutes

April 4, 2019

Item

No.

1. Call to Order

Mayor Brandvold called the meeting to order at approximately 8:32 a.m.

2. Roll Call

Roll Call was taken. A quorum was present.

3. Election of Officers

Board Member Blom moved to approve Director Gilman as the new Vice-Chairman of the Domestic Water Policy Committee, seconded by Mayor Brandvold. Motion passed unanimously.

4. Public Comment

None

5. Approve Meeting Minutes – January 17, 2019

Mayor Brandvold called for a motion to approve the minutes of the January 17, 2019 Domestic Water Policy Committee meeting. Moved by Committee Member Blom, seconded by Vice-Chair Gilman. Motion passed unanimously.

6. Domestic Water Project Update (Jeremiah Loveland & Jessica Stillwell)

Jeremiah stated the daily average delivery for the first quarter of 2019 spanning from January 1st through March 31st was 15.83 MGD from the conventional plant and 2.3 MGD from the membrane plant with average combined flow up to 18.03 MGD. The plant had consistently met demand as requested from the City.

In November 2018 a full-scale study utilizing aluminum chlorohydrate (ACH) at the plant began. The study was initially to end in March 2019, however, with the irrigation season starting on March 17th the opportunity to observe ACH during the irrigation season was determined to be beneficial as treating irrigation water can sometimes be more challenging than the water treated during winter months. The study will continue through June 2019.

A tracer study of the membrane ozone contact basin was conducted to determine the hydraulic efficiency and the contact time for ozone in the membrane plant. The study was successful as all regulatory requirements were met.

Membrane fibers that were purchased last year were installed in February 2019. An additional 528 modules were added to the membrane facility, replacing the blank fibers that were previously installed. These fibers are expected to maximize the flow through membrane plant as redundancy will be reduced and each cell will allow for greater flow. Vice-Chair Gilman inquired about the criteria evaluated that determine the desired amount of flow through the conventional plant and the membrane plant. Jeremiah stated the delivery capacity through the conventional plant is 42 MGD and prior to fiber installation the delivery capacity through the membrane plant was 36 MGD. During a lower flow season it is much more feasible to utilize the conventional plant as the main plant for delivery with the membrane plant as support. The conventional plant can take nearly a half day to bring on and offline as needed. Turning the membrane plant on and off, or increasing/decreasing flow, is a much easier with the membrane plant than it is with the conventional plant.

Jessica stated that the goal of delivery for the upcoming high season is to keep the conventional plant delivering 15-20 MGD and to utilize the membrane plant when the City's demand increases. The water quality of the conventional plant when turned on after being off for several days can be more challenging to treat. Vice-Chair Gilman further asked about the different water quality produced by each plant. Jessica stated that there is a very slight, statistically insignificant difference, however, water from the two plants is blended prior to delivery at which time the water quality becomes one and the same. Committee Member Blom inquired as to what the new increased flow through the membrane plant is as it was formerly 36 MGD. Jeremiah stated that the flow capacity of the membrane plant since fiber installation has yet to be tested. There are six membrane filtrate pumps that are experiencing rust issues and are being recoated. Once the pumps are reinstalled a full evaluation of capacity for flow will be completed.

7. Proposed Future Policy Committee Meetings

- July 11, 2019 at 8:30 a.m. in the MID Board Room
- October 3, 2019 at 8:30 a.m. in the MID Board Room

8. Adjournment

The meeting was adjourned at approximately 8:42 a.m.