

MEMORANDUM

June 12, 2019

TO: Reclamation District No. 2026

FROM: Nathan Hershey

SUBJECT: June 2019 Engineer's Report

Described below are the engineering items to be discussed at your June 12, 2019 meeting.

Subventions 2017-18 – The District submitted an application for participation in the Program in the amount of \$550,000. \$14.5 million has been approved for Program funding for FY 2017-18. The District's final claim has been submitted in the amount of \$156,175.70.

Subventions 2018-19 – The District submitted an application for participation in the Program in the amount of \$400,000. \$12 million has been approved for Program funding for FY 2018-19, consistent with recent previous years.

Subventions 2019-20 – The District submitted an application for participation in the Program in the amount of \$500,000.

Annual Maintenance – Attached are the current maintenance items we are tracking.

Five Year Plan – We have received a fully executed funding agreement for the Five-Year Plan (FYP). We have started work on the Plan update and have requested an advance of funds.

DWR Emergency Response Grant Update – Contra Costa County's consultant, Michael Baker International (MB), submitted a draft of the Local Flood Safety Plan for review and comment. We have reviewed the Plan and have provided MB with comments. MB is working with the County, continuing to progress the plans for each RD. We will keep you posted as we receive additional updates.

SB 88 – Work under Phase 2 of the measurement experiment (work plan for 2019) is progressing and coordination with the Delta Measurement Experimentation Consortium continues.

Siphon logs for calendar year 2018 have been summarized and will be used for water right reporting calculations. 2019 siphon logs have been received for the month of April and collection of May logs is in progress. Site visits were limited during the month due to non-use of siphons and waiting for equipment. Portable meter testing is scheduled to continue during the irrigation season.

Eight of the nine existing test sites appear to be functioning properly and collecting flow data. Two of the nine sites (Bouldin Island Siphon Nos. 39 and 40) were vandalized early this year. The replacement equipment for Siphon No. 39 was installed last month and has already recorded flow data. Overall the equipment appears to be functioning and maintaining power. Replacement equipment for Siphon No. 40 is on the way to MBK's office. A security enclosure was installed to protect the equipment at these two sites from future vandalism. Another two metered sites were not functioning last month due to wiring and

programming issues. Both of these sites were visited by MBK for repair; one repair was successful. The other site is still producing erroneous data and will need further investigation with the manufacturer.

In addition, water level and pressure sensor equipment at three sites require troubleshooting and/or maintenance. The internal batteries died on the land side water level sensor installed at Bouldin Island Siphon No. 2. The sensor was removed and batteries have been replaced; the sensor was reinstalled last week. The mounting of the land side water level sensor at Bouldin Island Siphon No. 40 has been corroded and therefore the sensor has been removed. This sensor does not have an internal data logger and therefore will be reinstalled when the replacement data logging equipment is installed at the vandalized site. Also at Bouldin Island Siphon No. 40, the water side water level sensor is experiencing telemetry communication issues. The manufacturer has offered to replace this sensor free of charge. Lastly, the land side water level sensor at Bouldin Island Siphon No. 14 is experiencing communication issues with the data logger. MBK is currently discussing with the manufacturers possible solutions at all sites still experiencing issues.

Gornto Ditching has been contacted to repair the solar panels at two sites that have become misaligned due to wind. New measurement equipment was ordered for use at siphons on Bouldin Island. One Sierra Instruments InnovaSonic 203 external ultrasonic flow meter was installed at Siphon No. 26 but requires programming to begin collecting data. The other Sierra Instruments InnovaSonic 203 will be installed at Siphon No. 27 during a future site visit. The last piece of new measurement equipment, a McCrometer UltraMag flange magnetic meter has not yet shipped from the manufacturer.

Reclamation District No. 2026 Webb Tract
Issue Tracking Summary
6/10/2019

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
3	Medium	10/4/2016	Jaime Barajas	Station 614	Broken Equipment	Pump station platform pile appears to have buckled.	Repair	Dino to investigate and repair; Schedule TBD. See photos.
19	Medium	2/1/2017	Jaime Barajas	Station 614	Boil	Boil located near pump station	Investigate	Jaime to monitor. On 3/22/17 District forces coretrenched levee and found no cause for seepage.
50	Low	7/21/2017	Russ Ryan	Station 180	Crack	Possible small crack between WS crown and AB splash berm	Monitor	
61	Medium	1/19/2018	Ralph Heringer	Station 164+60 False River Pump	Seepage	Seepage under discharge pipes. Ongoing problem.	Monitor	Investigate problem; This has been a long-term issue. 6/9/18 Photos received from Jaime; MBK investigating options for remediation
61.1		6/10/2019	Nate Hershey			Seepage berm construction complete. RD forces placed 6,026 cy of material. Continue to monitor.		
69	Medium	7/10/2018	Andrew Reece	Station 408	Sloughing	Approx. 200ft of rip rap sloughing	Monitor	