

MEMORANDUM

December 15, 2021

TO: Reclamation District No. 2026

FROM: Nathan Hershey

SUBJECT: December 2021 Engineer's Report

Described below are the engineering items to be discussed at your December 15, 2021 meeting.

Subventions 2020-21 – The District submitted an application for participation in the Program in the amount of \$2,395,000. \$12 million has been approved for Program funding for FY 2020-21. A final claim in the amount of \$116,155.48 was submitted.

Subventions 2021-22 – The District submitted an application for participation in the Program in the amount of \$665,000. \$10 million has been approved for the Program for FY 2021-22.

Annual Maintenance – Attached are the current maintenance items we are tracking. We are also due to perform a survey of the levees to check elevation and width parameters, typically done every 5 years. We recommend performing the survey in 2022.

Five Year Plan – Work on the Five-Year Plan is currently in progress. A draft of the plan has been distributed via email and we have addressed the comments received to date. We have also addressed DWR's comments. DWR has extended the expiration date of the funding agreements to December 31, 2022.

Emergency Drought Barrier – Due to extreme drought conditions, the State has opted to install the emergency drought barrier in False River to protect water quality in the central Delta, similar to what occurred in 2015. DWR has informed us their preference is to keep most of the False River Barrier in place for the winter due to the drought. The intent is to create a notch 400 feet wide with a minimum depth of 12 feet to allow for fish and boat passage. The notch will be cut in January 2022 and backfilled in April 2022, assuming drought conditions remain.

SB 88 – Work under Phase 3 of the measurement experiment has been completed. Phase 3 efforts primarily involved installing 8 additional flange magnetic meters on the water side of the highest use siphons, with at least one flow meter on each island. The installation of telemetry equipment at each of these sites is also complete. MBK has visited the sites and certified that the installed flow meters have all been installed to manufacturer's specifications. During one of these site visits the meter at Bacon Island Siphon 24 was reprogrammed after it was discovered the readings were inaccurate. MBK also noticed that the meters on Bouldin Island Siphons 39 and 40 appeared to be experiencing electrical interference. To address this issue, grounding rods were installed for each meter.

Work under Phase 4 of the measurement experiment is expected to begin in the near future. MWD has authorized the purchase of 25 flow meters along with telemetry units to be installed on all four islands. MWD has also begun the process of selecting a contractor to perform the installations of this equipment. The installations are estimated to be completed before the end of 2022. MBK has conducted visits to the

proposed sites to identify work that needs to be completed prior to installing the flow meters. MBK will work with MWD and the selected contractor to complete these preparations.

After reviewing the notes and photos from MBK's visits to the Phase 4 sites, four siphons were identified as potentially having asbestos or a tar coating on the pipe exterior. These hazardous materials could harm the contractor and the environment if not disposed of properly. MBK and MWD are planning to work with an environmental consultant to determine if any hazardous materials are present by testing samples from each of the four sites. MWD has already reached out to an environmental consultant (Bovee Environmental Management) that is competent in this type of testing. If the tests from the environmental consultant show hazardous materials are present, MWD will update the scope of work for Phase 4 and work with the environmental consultant to properly dispose of these materials.

MWD and the RDs are in compliance for calendar year 2021 under an approved extension of time. Current direction by MWD was to proceed with strict compliance. Therefore, MBK has provided cost estimates for flange magnetic meters with telemetry equipment installed on the water side of all active siphons. Since strict compliance will not be obtained by the end of the year, MBK is coordinating with the Delta Watermaster to develop a Plan for Compliance. The current direction from the Delta Watermaster is to submit Requests for Additional Time to cover the period needed to install all the flow meters with the Plan for Compliance attached. The Plan for Compliance provides details regarding the methods to estimate diversions on siphons without flow meters and provides a measurement equipment installation schedule. MWD currently anticipates that installing all the flow meters may take up to five years.

Development of the Delta-wide ACP by the Delta Measurement Experiment Consortium to utilize Open ET for measuring and reporting diversions continues. RD staff are currently in the process of creating place of use polygons for each of the islands. MBK and MWD continue to participate in the Consortium.

Reclamation District No. 2026 Webb Tract

Issue Tracking Summary

12/10/2021

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	
105	Medium	12/10/2020	Dave Forkel	Sta 378+00	Crack		Monitor	