

MEMORANDUM

September 22, 2021

TO: Reclamation District No. 2025

FROM: Nathan Hershey

SUBJECT: September 2021 Engineer's Report

Described below are the engineering items to be discussed at your September 22, 2021 meeting.

Subventions 2020-21 – The District submitted an application in the amount of \$845,000. \$12 million has been approved for Program funding for FY 2020-21. We are working on compiling the District's claim. Final claims must be submitted by November 1.

Subventions 2021-22 – The District submitted an application for participation in the Program in the amount of \$465,000. \$10 million has been approved for the Program for FY 2021-22.

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

Five Year Plan – Work on the Five-Year Plan is currently in progress. A draft of the plan was distributed via email and we have incorporated the comments received to date. We have also addressed anticipated DWR comments and have sent a draft to DWR staff for review and comment. DWR has extended the expiration date of the funding agreements to December 31, 2021.

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. MBK is still in the process of conducting comparison tests with the portable flow meter at these new sites.

MBK has been conducting regular visits to the sites as well as monitoring the collected data online. During one of these site visits it was discovered that the flow meter at Bacon Island Siphon No. 24 was generating questionable flow meter readings. To complete the troubleshooting, the gate valve at the discharge of the siphon needs to be fixed to prevent leaking when fully shut to allow MBK to reprogram the flow meter. MBK also noticed that the meters on Bouldin Island Siphon 39 and 40 appeared to be experiencing electrical interference. To address this issue, grounding rods need to be installed for each meter.

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. This Plan will provide details regarding the methods to estimate diversions on siphons without flow meters and provide a measurement equipment installation schedule.

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. The next Consortium meeting has not yet been scheduled.

Reclamation District No. 2025 Holland Tract
Issue Tracking Summary
9/20/2021

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
2	Medium	9/13/2016	Russ Ryan	Station 185	Crack	Crack in splash cap near leak	Monitor	Monitor; See photos
22	Low	2/10/2017	Nate Hershey	Station 545+80	Boil	Boil in landside slope	Monitor	Directed Asta to build a containment berm; Berm constructed; continue to monitor. 2/13/17 No flow coming through levee, relatively dry
25	Medium	2/13/2017	Nate Hershey	Station 105	Erosion	Erosion site	Repair	Repair; Monitor and repair when feasible
28	Low	2/18/2017	Russ Ryan	Station 315+75	Rodent Activity	Rodent Activity	Repair	Repair; Monitor and repair when feasible
60	Medium	1/18/2018	Brian Janowiak	Station 414-417	Other	Rodent activity	Monitor	Minor squirrel activity, mostly on upper LS slope. One larger void in levee crest (Sta 417) may need to be excavated.
98	Medium	6/10/2020	RalphHeringer	Sta 470 to 480 from LS of county road to toe ditch	Other	Fire	Monitor	Fire
98.1		8/11/2020	Nate Hershey	July 4 fire reported at Marina #1				
98.2		8/11/2020	Nate Hershey	July 20 fire reported at Mainstone property				

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IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
99	Low	9/16/2021	DaveForkel	Sta 350+50	Erosion	Vegetation clearing by landowner may have exposed levee to erosion.	Monitor	