

MEMORANDUM

December 15, 2021

TO: Reclamation District No. 2025

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 \$845,000. \$12 million has been approved for Program funding for FY 2020-21. A final claim in the amount of \$81,813.28 was submitted.

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. 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 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, 2022.

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. 2025 Holland Tract

Issue Tracking Summary

12/10/2021

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	