

MEMORANDUM

September 21, 2022

TO: Reclamation District No. 2025

FROM: Nathan Hershey

SUBJECT: September 2022 Engineer's Report

Described below are the engineering items to be discussed at your September 21, 2022 meeting.

Subventions 2021-22 – The District submitted an application for participation in the Program in the amount of \$465,000. An additional \$2 million was approved by the Central Valley Flood Protection Board, for a total of \$12 million approved for the Program for FY 2021-22. The final claim is in the process of being compiled and will be submitted prior to November 1.

Subventions 2022-23 – The District submitted an application for participation in the Program in the amount of \$465,000. \$12 million was approved by the Central Valley Flood Protection Board for the Program for FY 2022-23.

Annual Maintenance – Attached are the current maintenance items we are tracking. Routine vegetation clearing in compliance with our routine maintenance agreement is being planned along the south levee and will likely occur within the next month.

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 internal comments received to date. We are currently working to address DWR's comments. DWR has extended the expiration date of the funding agreements to December 31, 2022. At DWR's request, we submitted the anticipated total cost of improvements for their planning purposes.

SB 88 – Work under Phase 4 of the measurement experiment is underway. Currently fourteen meters have been installed and have been certified by MBK Engineers. Progress is being made on the remaining flow meter installations and they are expected to be complete before the end of 2022.

During the installation of these meters, Gornto Ditching discovered that a proper air-tight seal could not be made while using grounding rings on the 18-inch diameter siphons without using additional gaskets. Because of this, there would not be enough gaskets to complete all the Phase 4 flow meter installations. Technoflo has provided 8 replacement gaskets of a different material to try on the remaining sites. In addition, Gornto Ditching has been instructed to avoid using the grounding rings since electrical interference is not expected to be a significant issue at most sites. MBK recommends installing a grounding rod at any sites where electrical interference is observed to be an issue.

MBK and Gornto Ditching have also discussed additional complications regarding a Phase 4 site on Webb Tract with a plastic pipe (Siphon 8 Sta. 390+31). According to Gornto Ditching, different types of plastic pipe require different equipment to properly weld the flanges onto the pipe and install the flow meter.

Additional efforts will be required at this site to determine the type of plastic used and provide the necessary equipment for the installation.

After the completion of Phase 4, there will be approximately 50 siphons without a flow meter. MBK and MWD are planning to work with Bovee Environmental Management to test any of these sites that are suspected to contain asbestos or a tar coating on the pipe exterior. Any sites that test positive for these hazardous materials will be abated by W.C. Maloney during 2022-2023 prior to any flow meter installation.

MWD and the RDs are in compliance for calendar year 2022 under an approved extension of time. The extension was approved by the Delta Watermaster on January 13th, 2022 and will expire on January 1st, 2024. The extension of time included a Plan for Compliance which 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 will take five years. Therefore, MBK has provided cost estimates for flange magnetic meters with telemetry equipment installed on the water side of all active siphons.

Development of the Delta-wide ACP by the Delta Measurement Experiment Consortium to utilize Open ET for measuring and reporting diversions continues. Place of use polygons for each island have been completed and will be used in conjunction with Open ET to report on diversions. MBK and MWD continue to participate in the Consortium.

Reclamation District No. 2025 Holland Tract
Issue Tracking Summary
9/17/2022

| 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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9/17/2022

| 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 | |