

MEMORANDUM

September 20, 2023

TO: Reclamation District No. 756

FROM: Nathan Hershey, Mike Kynett

SUBJECT: **September 2023 Engineer's Report**

Described below are the engineering items to be discussed at your September 20, 2023 meeting.

Subventions 2022-23 – The District submitted an application for participation in the Program in the amount of \$631,000. A total of \$12.5 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2022-23.

Subventions 2023-24 – The District submitted an application for participation in the Program in the amount of \$631,000. A total of \$13 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2023-24.

Future Subventions Funding – DWR has indicated that funding has not been secured yet for fiscal years 2024-25 and beyond. Delta advocates, including the California Central Valley Flood Control Association and others, are considering ways to increase awareness and gain support for securing funding for this highly successful and vital program.

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

FEMA – MBK continues to coordinate with FEMA and is in the process of compiling documentation supporting the claim. Once all documentation has been provided, FEMA will submit the project to their management for review.

Special Projects – Construction of the Directed Action project to rehabilitate the north levee (BO-19-1-SP) is in progress. The contractor is currently excavating material from the northern borrow site and earthwork is scheduled to be complete by the end of September. Work is scheduled to be complete prior to the flood season.

The first phase of work on the levee setback project (BO-17-1-SP) near the Camp 5 pump station (west levee) is in progress. Fill placement south of the pump station is nearly complete and the contractor has started placing fill north of the pump station. Work is scheduled to be complete prior to the flood season.

A full application was submitted to DWR for the Projects Solicitation Package (PSP) for multi-benefit projects. Applications are currently under review by DWR management.

SB 88 – MWD is in the process of finalizing the purchase of the equipment as soon as possible for Phase 5 (remaining 51 sites). MBK contacted Wildeye regarding a reduced annual subscription fee due to the number of units, to which Wildeye was agreeable. MBK will continue to coordinate with Wildeye on this. The Phase

5 flow meters will be installed over the next two years due to the number of sites and levee projects that will continue through 2024. MBK created an installation schedule that should not interfere with the levee projects. In addition, MBK will supervise the levee work at sites with existing measurement equipment to ensure no damage occurs to these devices.

MWD and the RDs are in compliance for calendar year 2023 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. As such, a new extension for time will need to be submitted prior to the 2023 annual reports in the beginning of December 2023. The previous 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 two years.

The Delta-wide ACP by the Delta Measurement Experiment Consortium to utilize Open ET for measuring and reporting diversions will be used for the 2023 annual reports, due February 1, 2024. Place of use polygons for each island have been completed and will be used with Open ET to report on diversions, when metered data is not available. MBK and MWD continue to participate in the Consortium. The next meeting is Thursday, September 21st.

RD 756 - Bouldin Island

Issue Tracking Summary

September 16, 2023

Issue ID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
041	Medium	March 28, 2017 5:00 PM	Ralph Heringer	Station 544-549	Crack	Cracking in LS Slope; seepage and cattails at toe	Monitor	Monitor and discuss repair; 10/23/17 Levee crown trenched; no encroachments located, Area to be graded and prepared for flood season; will proceed under Special Projects upon receipt of PFA. 12/4/17 - grading complete
41.1		April 24, 2020 12:00 AM	Nate Hershey					Reviewed the site area. Area appears to be moving again - not as dramatic as in 2017, but it appears to be along the same fault lines. Seepage observed exiting the surface. Recommend performing an updated survey and developing an action plan.
41.2		March 10, 2023 1:00 AM	Andrew Petrini					Visual observation suggests recent movement may have occurred. AECOM reports no significant movement detected by instrumentation at this time.
053	Medium	August 11, 2017 12:00 AM	Nate Hershey	Station 324	Seepage	Seepage at toe of 3 to 1 slope	Monitor	Monitor
054	Medium	August 11, 2017 12:00 AM	Nate Hershey	Station 336	Seepage		Monitor	Monitor; The hole is shallow at about 1-2 inches deep.
074	Low	January 5, 2019 5:54 PM	Russ Ryan	Land side within 150 foot Levee footprint. See attached photos. Low wet areas.	Sinkhole, Other	Bouldin Island - West stretch length adjacent to Mokelumne River. See attached photos for exact location.	Investigate	See notes above.
088	Low	June 7, 2019 1:55 PM	Dave Forkel	Sta 382+00	Seepage	Seepage on side of levee.	Investigate	
094	Low	September 27, 2019 6:02 PM	Brian Janowiak	Lower toe	Other	Area along lower toe near seepage ditch by Florida tip appears to have settled.	Monitor	
096	Medium	April 22, 2020 12:00 AM	Russ Ryan	Between 630 and 640	Seepage	Appears to be seepage	Investigate	

107	Medium	December 17, 2020 2:05 PM	Russ Ryan	Station 630	Seepage	Just inside levee footprint on land side of toe drain there water ponding. Was there prior to any rain this season during dry period.	Monitor	See photos taken on site.
108	Medium	July 8, 2021 12:00 AM	Russ Ryan	Station 90	Crack	Cracking observed on landside slope. Unclear if this is a result of the earthquake event.	Monitor	
109	Medium	July 8, 2021 12:00 AM	Russ Ryan	Station 226	Sloughing	Potential landside settlement on toe berm. Unclear if this is earthquake related.	Monitor	
110	Medium	July 8, 2021 12:00 AM	Russ Ryan	Station 503	Sloughing	Landside disturbance. Unclear if earthquake related or due to sheep activity.	Monitor	
116	Medium	February 21, 2022 3:23 PM	Russ Ryan	West levee north of camp 5 at pilot project instrumentation area.	Seepage	Noticeable standing water at toe of levee at the same 2017 slippage event.	Investigate	Need Geotech investigation and assessments.
117	Low	February 23, 2022 12:10 PM	Russ Ryan	Location is landside off west levee (Bouldin Island) and south of Hwy 12	Seepage	Landside water ponding presenting at toe of levee.	Investigate	Roughly an estimated 30 feet by 10 feet. Dimensions need to be verified in field investigation.
121	Medium	October 14, 2022 12:00 AM	Nate Hershey	Station 33	Seepage	Seepage observed periodically on toe of levee. Seems to come and go, sometimes difficult to tell if it is seepage or ponding water. Observations suggest it is likely seepage that periodically appears during times of high water.	Investigate	
123	High	January 4, 2023 1:00 AM	AndrewReece	Station 498	Erosion	Waterside slope eroding in several locations.	Repair	
124	Medium	January 4, 2023 1:00 AM	AndrewReece	Station 555	Erosion	Eroded slope	Repair	
126	Medium	February 17, 2023 12:12 PM	Dave Forkel	Camp 29 Pump Station	Erosion	Washout behind sump sheet piling	Repair	
129	Low	March 31, 2023 8:59 AM	Michael Nishimura	29+00 to 29+60	Other	5-6" ruts concentrated in two locations. Half a load (10 tons) recommended. Could potentially just be regraded.	Repair	
130	Low	March 31, 2023 9:05 AM	Michael Nishimura	32+80 to 33+50	Other	Regrade small potholes. Material not Needed.	Repair	
131	Low	March 31, 2023 9:10 AM	Michael Nishimura	40+50 to 41+50	Other	Half a load 5-6" ruts on crown.	Repair	
132	Low	March 31, 2023 9:15 AM	Michael Nishimura	43+90 to 45+50	Other	3"-5" deep rutts along a consistent 160 foot length. Rutts about 2 feet wide.	Repair	

133	Low	March 31, 2023 9:31 AM	Michael Nishimura	286+20	Other	15 foot by 3 foot by 4-5" deep pothole . Potential regrade site.	Repair	
134	Low	March 31, 2023 9:46 AM	Michael Nishimura	378+40	Other	X4 1.5foot diameter pot holes 2-3" inches deep. Regrade site only	Repair	
135	Low	March 31, 2023 9:49 AM	Michael Nishimura	To 423+20	Other	4 1 foot diameter potholes by 4"-5" deep. Half a load or so To fill.	Repair	
136	Low	March 31, 2023 9:49 AM	Michael Nishimura	422+20 to 423+20	Other	Multiple 1 foot diameter potholes by 4"-5" deep. Half a load to full load or so To fill.	Repair	
137	Low	March 31, 2023 9:59 AM	Michael Nishimura	427+20	Other	Multiple potholes 1 foot diameter 2-5" deep. Could be regrade site	Repair	
138	Low	March 31, 2023 10:02 AM	Michael Nishimura	430+40	Other	2.5 diameter pothole about 2-5" deep needs ab not too much.	Repair	
139	Low	March 31, 2023 10:04 AM	Michael Nishimura	433+90	Other	Multiple potholes. Regrade site.	Repair	
140	Low	March 31, 2023 10:07 AM	Michael Nishimura	442+00	Other	Pothole. Regrade site.	Repair	
141	Low	March 31, 2023 10:08 AM	Michael Nishimura	444+40	Other	Pothole some ab needed.	Repair	
143	Medium	August 8, 2023 1:58 PM	Other	Approximately station 490 to 510	Sloughing	The attached photos are from a boat on the water side. Unsure if RD is already working on this area.	Investigate	