

MEMORANDUM

January 29, 2025

TO: Reclamation District No. 756

FROM: Nathan Hershey, Mike Kynett

SUBJECT: **January 2025 Engineer's Report**

Described below are the engineering items to be discussed at your January 29, 2025 meeting.

Subventions 2023-24 – The District submitted an application for participation in the Program in the amount of \$631,000. A total of \$14 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2023-24. A final claim was submitted in the amount of \$362,485.49.

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

Emergency Response Grant (Round 3) – San Joaquin County transmitted a memo to reclamation districts regarding grant funds that are available to update the District's emergency operations plan and flood contingency map. Up to \$15,000 per district is available. We are in the process of updating the plan documents. The deadline for completion is April 30, 2025.

Regional Flood Fight Supply Depot – Sacramento County responded to our inquiry regarding receipt of additional flood fight supplies. They informed us they hope to be ready to deliver supplies in approximately 4 months.

FEMA – The District's claim is currently under review at FEMA. MBK will continue to check in with FEMA personnel regarding status updates. The FEMA reimbursement rate is 100% for eligible costs incurred between 12/27/22 and 2/25/23 and 75% for eligible costs incurred between 2/26/23 and 7/14/23. The total claim amount for 100% FEMA reimbursement is \$11,441.42. The total claim amount for 75% FEMA reimbursement is \$18,738.10. CalOES will reimburse 75% of the 25% not reimbursed by FEMA (\$3,513.39). The approximate total combined reimbursement amount is expected to be \$29,008. The eligible costs in the claim are PG&E bills for electricity for the pump stations.

Special Projects – Construction of the Directed Action project to rehabilitate the north levee (BO-19-1-SP) is complete. We are working with DWR and CDFW on satisfying mitigation requirements. The funding agreement has been extended to December 31, 2027.

The design team is working on the final phase of the project, which includes setting the levee back in the project area, creating a habitat bench, and relocating the pump station. Our goal is to submit drawings for permits in 2025 and be ready for construction in 2026.

DWR has provided a revised funding agreement for up to \$900,000 for planning, permitting and design of a multi-benefit project from Stations 415-500 at a State cost share of 90%. The agreement has been fully executed. Work will commence upon receipt of advance funding.

SB 88 – All Phase 4 meters have been installed and certified by MBK Engineers. Data is currently being collected at 37 sites across all four islands. MBK will continue to monitor all sites weekly via Wildeye's website. All Wildeye units are currently working with the exception of (1) Bouldin Island Siphon No. 30 and (2) Bouldin Island Siphon No. 24. Bouldin Island Siphon No. 30 was damaged by driftwood (equipment will be reinstalled when Phase 5 installations occur at nearby siphons). The data collected at Bouldin Island Siphon No. 24 is not being recorded correctly in Wildeye, which we believe is due to a configuration issue. MBK will reach out to Wildeye to try to resolve the issue. All meters are currently working, with the exception of (1) Bouldin Island Siphon No. 2, (2) Bouldin Island Siphon No. 26, and (3) Bacon Island Siphon No. 25. MBK worked with Technoflo to acquire a quote for a 14-inch conversion kit for Bouldin Island Siphon No. 26. MWD has reviewed the quote and requested that MBK make the purchase. MBK is currently reviewing the other meters before submitting the order in the event additional equipment is required.

Phase 5 flowmeter installations have begun on Bouldin Island with 6 flowmeters currently installed. Installations on Webb Tract will begin following the completion of Bouldin Island. A separate request for proposals will be opened at a later date for Bacon Island and Holland Tract. The Phase 5 Wildeye telemetry equipment has been purchased and will be delivered at the time of installation, following flowmeter installations at each site.

MBK has provided MWD staff with a draft summary technical report on the 2023 OpenET and measured diversion comparison for review and is developing a similar comparison for 2024.

MBK has prepared Water Year 2024 annual reports, which are currently under review by MWD staff. MWD staff will submit the 2024 annual reports prior to the February 1, 2025 deadline.

RD 756 – Bouldin Island

Issue Tracking Summary

January 24, 2025

Issue ID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
041	Medium	March 28, 2017 4:00 PM	RalphHeringer	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 23, 2020 11:00 PM	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 12:00 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 10, 2017 11:00 PM	Nate Hershey	Station 324	Seepage	Seepage at toe of 3 to 1 slope	Monitor	Monitor
054	Medium	August 10, 2017 11:00 PM	Nate Hershey	Station 336	Seepage		Monitor	Monitor; The hole is shallow at about 1-2 inches deep.
074	Low	January 5, 2019 4:54 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 12:55 PM	Dave Forkel	Sta 382+00	Seepage	Seepage on side of levee.	Investigate	

096	Medium	April 21, 2020 11:00 PM	Russ Ryan	Between 630 and 640	Seepage	Appears to be seepage	Investigate	
107	Medium	December 17, 2020 1:05 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.
116	Medium	February 21, 2022 2:23 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 11:10 AM	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 13, 2022 11:00 PM	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	
126	Medium	February 17, 2023 11:12 AM	Dave Forkel	Camp 29 Pump Station	Erosion	Washout behind sump sheet piling	Repair	
144	Medium	October 18, 2023 12:27 PM	Jack Cronin	East levee. See point, near Caution marker in water.	Sloughing	Sloughing, appears old. Likely not from earthquake.	Monitor	
145	Medium	October 18, 2023 12:31 PM	Jack Cronin	See point.	Sloughing	Minor sloughing. Potentially from seismic event	Investigate	