

MEMORANDUM

November 15, 2023

TO: Reclamation District No. 2028

FROM: Nathan Hershey, Brian Janowiak

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

Described below are the engineering items to be discussed at your November 15, 2023 meeting.

Subventions 2022-23 – The District submitted an application for participation in the Program in the amount of \$541,000. A total of \$12.5 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2022-23. A final claim was submitted in the amount of \$325,967.61.

Subventions 2023-24 – The District submitted an application for participation in the Program in the amount of \$541,000. 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. We have prepared a draft funding request letter for the RD to consider and possibly submit to state legislators.

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 – The enhancement component of the Old River multi-benefit levee rehabilitation project (BN-15-1-SP) is in-progress. Maintenance activities will be on-going to promote plant health and longevity.

Teichert construction has completed all year one fill placement along the north and south toe berms. The levee crown and interior haul roads have been cleaned up and prepared for winter. The hydroseed subcontractor is currently applying wood hydromulch and tackifier to the newly placed fill for temporary erosion protection. All construction activities should be complete by the end of this week. Year two construction may begin as early as May 1, 2024. However, dewatering pumping in the borrow sites may begin prior to that date, pending environmental restrictions.

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 in working order with the exception of Bouldin Island Siphon No. 30 (as previously described, will be reinstalled when Phase 5 installations occur at nearby siphons).

MWD has finalized the purchase of Phase 5 equipment (remaining 51 sites) from TechnoFlo and is awaiting delivery. The Wildeye purchase order has been completed and Wildeye will maintain stock of the ordered supplies and bring the equipment as installations occur. MBK contacted Wildeye regarding a reduced annual subscription fee due to the number of units, to which Wildeye was agreeable. MBK and MWD will continue to coordinate with Wildeye on this topic. MWD is preparing a bid package and will soon be requesting bids for meter installations.

MWD and the RDs water rights are in measurement compliance through calendar year 2024 under an approved extension of time. MBK prepared and submitted an updated Request for extensions of time for each island for compliance through December 31, 2025 and is awaiting approval by the Delta Watermaster.

Annual water right reports for Water Year 2023 are due by February 1, 2024. MBK is compiling the data for these reports and will be preparing draft reports in coordination with MWD for submittal ahead of this deadline. The method utilized by the Delta-wide ACP to use OpenET for measuring and reporting diversions will continue to be used when meter data isn't available for the 2023 annual reports. Bacon Island Siphon 32 has been assigned Statement Number 28936 and will be added to this year's annual reporting list (the Initial Statement was filed in March 2023).

MBK and MWD continue to participate in the Delta Consortium; the next meeting has not yet been scheduled but is anticipated mid-December.

RD 2028 - Bacon Island

Issue Tracking Summary

November 11, 2023

Issue ID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
006	Medium	October 20, 2016 4:00 PM	Ralph Heringer	Station 275 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
036	Low	February 23, 2017 4:00 PM	Nate Hershey	Station 712	Seepage	Seepage exiting at toe of slope near retaining wall structure.	Monitor	12/4/17 - Area dried up after winter; continue to monitor
043	Medium	April 3, 2017 4:00 PM	Brian Janowiak	Station 92-93	Seepage	Seepage existing at toe of slope, running across county road		
073	Medium	October 20, 2016 4:00 PM	Ralph Heringer	Station 465 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
101	Medium	September 17, 2020 3:25 PM	Nate Hershey	Station 704	Erosion	Field verified erosion site detected by drone footage. Site is approximately 100 feet long, adjacent to willows and vegetation is covering steep slopes.	Repair	
101.1		January 8, 2021 12:00 AM	Nate Hershey					Site is in future Special Projects work area. Recommend monitoring and repairing during levee rehabilitation project.
102	Medium	May 5, 2021 10:13 AM	Dave Forkel	Sta 107+19	Erosion	Erosion at toe of levee at siphon discharge.	Repair	Dino and Son to fill erosion site
103	Medium	May 5, 2021 10:22 AM	Dave Forkel	Sta 175+15	Erosion	Erosion at toe of levee at siphon discharge.	Repair	Dino and Son to fill erosion site
104	Low	May 5, 2021 10:23 AM	Dave Forkel	Junior's House	Sloughing	Rock placed at waterside of new fill settling.	Monitor	
106	Medium	November 4, 2021 3:43 PM	Dave Forkel	Sta 170+00	Seepage	Seepage at toe of levee.	Monitor	
107	Medium	December 15, 2022 3:44 PM	Dave Forkel	Sta 704+00	Erosion	Levee experienced minor waterside erosion during last weeks storm.	Repair	District forces to repair.
108	Medium	January 10, 2023 9:33 AM	Michael Nishimura	13+50 waterside hinge on road	Sinkhole, Other	6" diameter sink hole on ws road hinge. Probed for 5' deep going towards the water. Identical size hole on landside road hinge just across crown, probed about 2.5' into levee crest. The landside has multiple animal burrows 7" to 1' diameter in size. Probed 5' feet into levee towards levee center. Ground	Repair	

						is very soft on landside slope and steep. Approximately 1.5:1 to 2:1 slope. There is a bulge at the lower landside toe. It appears either a low spot is ponding or potential seepage is occurring on the landside toe for approximately 150' adjacent to rodent activity and sinkholes.		
109	Medium	January 10, 2023 10:02 AM	Michael Nishimura	13+50 landside toe	Seepage	Potential sheet flow Seepage at landside toe. Adjective to levee with several large rodent holes. Approximately 150-200' total site length.	Monitor	
111	Medium	January 10, 2023 10:42 AM	Michael Nishimura	98+90 to	Erosion, Sloughing	Sloughing of ws slope. In the adjacent areas the slope is steep as well and it starts right at the water side hinge. This sloughing is occurring in a thick patch of ws slope and is still approximately in the same condition as it's adjacent slopes. Grading could help further damage from surface runoff.	Monitor	
113	Medium	January 10, 2023 11:10 AM	Michael Nishimura	203+50 to 204+25 waterside slope	Erosion, Sloughing	Erosion and sloughing 75' on waterside slope. Scarping mid slope. Likely caused by oversteepened slope and surface run off.	Monitor	
114	Medium	January 10, 2023 11:57 AM	Michael Nishimura	666+15 to 666+90 waterside slope	Erosion, Sloughing	Erosion on waterside slope. Top of erosion is at mid slope. Water side slope is approximately 8' slope distance from waterside hinge to waters edge. 75' length. Rodent holes observed on waterside hinge/slope	Monitor	
115	Medium	January 10, 2023 12:15 PM	Michael Nishimura	671+10 to 674+50	Erosion, Sloughing	Erosion and sloughing broken up sites within stations listed above. Gaps are approximately 10-20' before erosion picks up again. Cracks and rodent holes observed on waterside hinge. Water side slope is very soft. (Approximately 275 feet total erosion is estimated to be within stationing provided above)	Monitor	
116	Medium	January 10, 2023 12:33 PM	Michael Nishimura	681+80 to 685+10	Erosion, Sloughing	Vertical erosion, sloughing and waterside hinge cracking. The majority of this	Monitor	

						section has a steepened waterside slope. Cracking is on the waterside hinge and the slope is sloughing into the water. Rodent holes observed on the ws hinge.		
119	Low	May 31, 2023 5:38 PM	Dave Forkel	Sta 756+00	Crack	Mel reported crack and sloughing of riprap just south of bridge.	Monitor	Not much obvious sloughing.