

### **MEMORANDUM**

October 7, 2020

**TO:** Reclamation District No. 756

**FROM:** Nathan Hershey

**SUBJECT:** October 2020 Engineer's Report

Described below are the engineering items to be discussed at your October 7, 2020 meeting.

**Subventions 2019-20** – The District submitted an application for participation in the Program in the amount of \$750,000. DWR has lowered the Program funding amount to \$10 million for FY 2019-20. We are working on compiling the District's claim. Final claims are due November 1.

**Subventions 2020-21** – The District submitted an application for participation in the Program in the amount of \$1,595,000. \$12 million has been approved for Program funding for FY 2020-21.

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

**Special Projects** – A letter was submitted to DWR requesting reconsideration of the decision to withdraw the funding agreement for the levee setback and habitat enhancement project on the west levee. We are awaiting a response.

We received a fully executed funding agreement for the design portion of the Directed Action project to rehabilitate the north levee. We have requested an advance of funds from DWR. Work is mostly on hold until we receive the advance of funds.

**Five Year Plan** – Work on the Five-Year Plan is currently in progress. A draft of the plan has been distributed via email and we have incorporated many of the comments received to date. We have also sent a draft to DWR staff for review and comment. DWR has extended the expiration date of the funding agreements to December 31, 2021.

SB 88 – Work under Phase 3 of the measurement experiment (Feb 2020 through Feb 2021) is underway, as outlined in the approved Request for Additional Time. Phase 3 efforts primarily involve installing 8 additional flange magnetic meters on the water side of the highest use siphons, with at least one flow meter on each island. MWD has obtained funding approvals for Phase 3, however is currently investigating flow meter issues prior to approving the new equipment quotes and setting up a bid process for installation. After the invoices are submitted, there is up to a 6-week lead time for new equipment to be delivered. To follow up on issues with the Ultra Mag meter at Bouldin Island Siphon No. 24, during September MBK continued discussions with McCrometer and also contacted Technoflo to discuss potential solutions for future installations as well as potential alternative flow meters. Technoflo identified that the water intrusion could have taken months to reach circuit boards in the unit, making it impossible to identify when the intrusion occurred. Due to the issues with the meter, the purchase of new equipment (which includes 4 Ultra Mags) is temporarily on hold until methods to prevent this issue from occurring in the future or changes to the warranty is determined. An additional meeting with Technoflo is scheduled in early October to discuss

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protective measures for future installations and the purchase of meters for all active siphons on each island. MBK is currently preparing a document to describe a plan and estimated costs for long term, strict compliance with the Measurement Requirements on the MWD islands. This document is intended to be provided to MWD in October for discussion purposes.

The next Delta Measurement Experiment Consortium meeting is on October 15, 2020, which includes presentations by the Delta Watermaster's office on Open ET and the development of a Delta-wide Alternative Compliance Plan. MBK and MWD will continue to participate in the Consortium and provide feedback on the future development of the ACP.

## Reclamation District No. 756 Bouldin Island

### Issue Tracking Summary 10/2/2020

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
23	Low	2/11/2017	JaimeBarajas	Station 859	Boil	Boil on lower levee slope/toe; running at high tide	Monitor	25 LF core trench along WS hinge to depth of 8'; no pipe or water encountered; backfilled with native material.
24	Low	2/11/2017	JaimeBarajas	Station 924+10	Boil	Boil on lower levee slope/toe; running at high tide	Monitor	40 LF core trench along WS hinge to depth of 8'; encountered water seeping from landside trench wall at 8' depth; backfilled with native and imported dry fill; Drainage ditch to be cut along Caltrans access roadway from Sta 926 to Sta 2 to relieve ponding. Work to be done by Sierra Cattle.
34	Low	2/20/2017	NateHershey	Station 813	Encroachment	Siphon may be low	Monitor	8/14/17 - Waterside top of pipe = 7.2; 100 yr. flood = 7.6; 12" siphon; pipe is low; Continue to Monitor
41	Medium	3/28/2017	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

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IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
								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
41.1		4/24/2020	NateHershey					an action plan.
53	Medium	8/11/2017	NateHershey	Station 324	Seepage	Seepage at toe of 3 to 1 slope	Monitor	Monitor
Γ.4	N 4 a alicena	0/11/2017	Natallarahau	Station 226	Canana		Manitan	Monitor; The hole is shallow at
54	Medium	8/11/2017	NateHershey	Station 336	Seepage		Monitor	about 1-2 inches deep.
						Longitudinal crack on land side		Investigate and monitor; It's
						slope near toe of Levee. Crack		clear to me that there is
						runs several hundred feet parallel		differential settling after slope
63	Medium	3/23/2018	RussRyan	Station 72	Crack	to Levee road. See photos.	Repair	vegitation was cleared.
			,	Land side within 150		Bouldin Island - West stretch		5
				foot Levee footprint.		length adjacent to Mokelumne		
				See attached phots.		River. See attached photos for		
74	Low	1/5/2019	RussRyan	Low wet areas.	Other,Sinkhole	exact location.	Investigate	See notes above.
						Seepage between toe road and		
						seepage ditch appeared last week.		
						Does not appear to be tidally		District (Dave, Russ, Ralph) to
						influenced and a point source was not located. Additional minor wet		review site on 5/10. Exploratory trenching will likely
				Sta 845+00 to 846+00		spots observed between Sta		be required. Perform trenching
				between toe road and		841+00 and 843+00. No known		when convenient as long as site
86	Medium	5/7/2019	Brian Janowiak	seepage ditch	Seepage	history of seepage at this location.	Repair	does not change or worsen.
		_, ,				, 1 11 0	- 1	
86.1		5/10/2019						Looks like seepage is drying up.
88	Low	6/7/2019	Dave Forkel	Sta 382+00	Seepage	Seepage on side of levee.	Investigate	
						Area along lower toe near		
						seepage ditch by Floeida tip		
94	Low	9/27/2019	Brian Janowiak	Lower toe	Other, Settlement	appears to have settled.	Monitor	

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						Abandoned houseboat almost		
						completely		
95	Medium	3/16/2020	DaveForkel	Sta 500+00	Other	destroyed	Monitor	Sheriff contacted
96	Medium	4/22/2020	RussRyan	Between 630 and 640	Seepage	Appears to be seepage	Investigate	
						An 18" diameter pot hole on levee		Will need to investigate extent
				Between Sta 20+00		crest road closer to waterside		of below surface voids below
99	Medium	7/28/2020	RussRvan	and St 40+00.	Sinkhole	slope.	Repair	sink.