

MEMORANDUM

February 17, 2021

TO: Reclamation District No. 2028

FROM: Nathan Hershey

SUBJECT: February 2021 Engineer's Report

Described below are the engineering items to be discussed at your February 17, 2021 meeting.

Subventions 2019-20 – The District submitted an application for participation in the Program in the amount of \$615,000. DWR has lowered the Program funding amount to \$10 million for FY 2019-20. The District submitted a claim in the amount of \$245,136.13 for the fiscal year.

Subventions 2020-21 – The District submitted an application for participation in the Program in the amount of \$615,000. \$12 million has been approved for Program funding for FY 2020-21.

Subventions 2021-22 – We are working on a draft application for FY 2021-22. Our recommendation is to submit an application that is similar to recent previous fiscal years.

Annual Maintenance – Attached are the current maintenance items we are tracking. We will also be raising the levee adjacent to the residences near Station 717. Asta Construction was the low bidder and will be submitting a proposed schedule soon. The schedule will be weather dependent.

Special Projects – The enhancement component of the Old River multi-benefit levee rehabilitation project is in-progress. Maintenance activities will be on-going to promote plant health and longevity.

A sheet pile wall has been approved for construction under the PFA. The sheet pile wall will intercept an old sluice box discovered deep within the levee during construction near Station 525. Asta Construction was the low bidder and will be submitting a proposed schedule soon. The schedule will be weather dependent. All work is scheduled to be complete prior to May 31.

The District received an advance of funds for design of the Directed Action project to rehabilitate the north and south levees. We have started work on the design and will be moving forward in anticipation of construction. The District will need to consider a variety of issues, including availability and location of onsite borrow material and other issues that may result in an impact to the landowner and/or their tenants.

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 received the new equipment which is currently stored on Bacon Island. A pre-bid walk through is scheduled for February 24th on Bouldin Island for interested contractors. After the walk through, MWD will select a contractor to install the Phase 3 equipment.

MWD and the RDs are in compliance for calendar year 2021 under an approved extension of time. Current direction by MWD is to proceed with strict compliance (instead of a combination of strict compliance and an MWD Alternative Compliance Plan as reported last month). Therefore, MBK is currently developing a draft plan for strict compliance, which will include a combination of flange magnetic meters installed on the water side for the largest and highest use siphons and alternative measurement methods at the smaller, less frequently used siphons.

Development of the Delta-wide ACP by the Delta Measurement Experiment Consortium to utilize Open ET for measuring and reporting diversions continues. MBK and MWD continue to participate in the Consortium, which met on January 28, 2021, and will provide feedback on the future development of this ACP as needed. The next Consortium meeting has not yet been scheduled.

Reclamation District No. 2028 Bacon Island

Issue Tracking Summary

2/12/2021

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
6	Medium	10/21/2016	Ralph Heringer	Station 275 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
8	Low	11/2/2016	Dave Forkel	Station 668-702	Encroachment	Eucalyptus trees present a hazard	Investigate	Review, explore removal
36	Low	2/24/2017	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
43	Medium	4/4/2017	Brian Janowiak	Station 92-93	Seepage	Seepage existing at toe of slope, running across county road		
48	Low	6/14/2017	Dave Forkel	Station 190+00	Vegetation control	CDFW mitigation site shows evidence of arundo mowing.	Investigate	Discuss mitigation requirements.
73	Medium	10/21/2016	Ralph Heringer	Station 465 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
84	Medium	4/4/2019	RussRyan	95+00	Boil	Lower tide now and I think the roadway pothole (boil ??) needs repair at some point. I know it's a county road. We'll have to figure since once the (what I'm assuming) is a leak of repaired then the road will need to also be repaired.	Repair	
92	High	9/19/2019	AndyReece	Sta 688+00 - 689+00	Crack	deep cracks at LS hinge and LS slope	Investigate	5 ft plus feet deep approx 3 inches wide along LS hinge and landside slope. In summer 2019, cracking area was excavated and re-compacted, AB was placed on the crown. On the waterside of the cracking site a beaver den was collapsed and back filled with AB in summer 2019.

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92.1	High	6/29/2020	Michael Nishimura	Sta 688+00 - 689+00	Crack	The cracking site, repaired by Dino and Sons in Summer 2019, has reopened and is approximately 100 feet in length. The number of cracks and the depth of cracks are unknown at this time.	Repair	
92.2	High	8/7/2020	Nate Hershey	Sta 688+00 - 689+01	Crack	Repaired by Dino and Sons again this week. Continue to monitor the area.	Monitor	
95	Medium	12/12/2019	AndyReece	siphon north of Mel's	RodentActivity	possible beaver den under tree south of siphon	Investigate	
100	Medium	9/17/2020	NateHershey	Station 102	Sloughing	Waterside slope is sloughing. Starting to encroach into the county road.	Repair	
101	Medium	9/17/2020	NateHershey	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	Medium	1/8/2021	NateHershey	Station 704	Erosion	Site is in future Special Projects work area. Recommend monitoring and repairing during levee rehabilitation project.		
102	Medium	10/5/2020	Dave Forkel	Sta 365+00	Crack	150 foot long crack on crown	Investigate	

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102.1	Medium	1/8/2021	NateHershey	Sta 365+00	Crack	Crack to be repaired during sheet pile installation project. Target completion prior to 6/1/21.		