

MEMORANDUM

December 11, 2019

TO: Reclamation District No. 2028

FROM: Nathan Hershey, Mike Kynett

SUBJECT: December 2019 Engineer's Report

Described below are the engineering items to be discussed at your December 11, 2019 meeting.

Subventions 2018-19 – The District submitted an application for participation in the Program in the amount of \$500,000. \$12 million has been approved for Program funding for FY 2018-19, consistent with recent previous years. The District's final claim has been submitted in the amount of \$276,982.97.

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.

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

Special Projects – The enhancement component of the Old River multi-benefit levee rehabilitation project is in-progress. The slopes have been seeded, and straw and tackifier were installed to protect the newly placed fill. The habitat areas are being cleared and planted.

We submitted a Full Proposal for a Directed Action project to rehabilitate the north and south levees in January 2019. DWR has agreed to fund the project design and we have received a funding agreement for the non-construction portion of the project. We are in the process of reviewing the agreement.

Five Year Plan – We have received a fully executed funding agreement for the Five-Year Plan (FYP). We have started work on the Plan update and have received an advance of funds in the amount of \$26,250.00.

SB 88 – Work under Phase 2 of the measurement experiment (work plan for 2019) is progressing and coordination with the Delta Measurement Experimentation Consortium continues. A flow meter was installed on the water side of the levee on Bouldin Island Siphon No. 27. The flow measurement equipment at the other 11 test sites are currently operational. The contractor has repaired the installation hardware for water level sensing equipment at 3 of the test sites (installation hardware was damaged during irrigation operations). During the next site visit by MBK, the water level sensors will be re-installed and programmed. Water level equipment on the waterside of Bouldin Island Siphon No. 39 continues to experience data outages that the manufacturer (WQ Consultants) is trying to address.

2019 siphon logs have been received for the month of September, and collection of October and November logs is in progress.

Site visits to Holland Tract and Webb Tract occurred on 11/19 and 11/21 to conduct portable meter testing on all siphons used for summer irrigation and winter flooding. Testing was successful and data was collected at every siphon used by MWD on Holland Tract. Successful tests were conducted on approximately half of

the siphons on Webb Tract. The remaining siphons on Webb Tract either were not accessible (buried, covered by vegetation) or had obstructions/debris in the pipes which prevented the portable flow meter signal from measuring the flow.

Review and analysis of the collected irrigation season meter data has begun. MBK is currently preparing an update to the 2018 Summary Report. Our goal is to provide the report update in draft form by the end of the year.

During the last Delta Consortium meeting, the Delta Watermaster requested that any Requests for Additional Time be submitted in mid-November if possible. Efforts to draft a Request for Additional Time on behalf of MWD are underway. MBK provided several options for compliance and a recommendation for MWD. We are awaiting direction from MWD management on how to proceed. Once selected, the compliance option will be summarized in the Request for Additional Time.

Reclamation District No. 2028 Bacon Island

Issue Tracking Summary

12/6/2019

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.
72	Medium	1/17/2017	Junior	West and North levees	Boil	Numerous locations along west and north levees	Monitor all boil sites; containment berms built on two most severe boils	Continue to monitor; flows seem to have receded or stopped with lower tides
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	