

**MEMORANDUM**

October 16, 2019

**TO:** Reclamation District No. 2025

**FROM:** Nathan Hershey

**SUBJECT: October 2019 Engineer's Report**

Described below are the engineering items to be discussed at your October 16, 2019 meeting.

**Subventions 2018-19** – The District submitted an application for participation in the Program in the amount of \$645,000. \$12 million has been approved for Program funding for FY 2018-19, consistent with recent previous years. We are working on compiling the District's final claim. The deadline for submittal is November 1.

**Subventions 2019-20** – The District submitted an application for participation in the Program in the amount of \$845,000. 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. Our fall maintenance project, including the stump removal and slope repair near Station 372, placement of clean quarry stone at various sites along the south levee, and removal of two abandoned siphons on the south levee (Stations 465 and 478) that are below the floodplain is nearly complete. A third abandoned siphon was also discovered near Station 477+50 and removed. The contractor is in the final stages of cleaning up the work areas and demobilizing.

The county has reported that they have had challenges with their chip seal emulsion supplier and trucking contractor that have caused delays in starting the levee roadway chip seal project. Since it is late in the year, they have decided to delay the chip seal project until next year. They did, however, pave portions of the road where cracking and differential settlement were observed.

**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.

**DWR Emergency Response Grant Update** – We are still waiting to see the final version of the Local Flood Safety Plan. At the last Delta Working Group meeting, we were informed the plans are being printed and we should see the final product soon.

**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. No additional test sites were added during September but one more additional test site is still planned for installation at Bouldin Island Siphon No. 27. After a site visit to troubleshoot flow meters, flow measurement equipment at all 11 tests sites is currently operational. Coordination with contractors is ongoing for installation and maintenance of water level sensing equipment at 4 of the test sites.

2019 siphon logs have been received for the months of July and August, collection of September logs is in progress. Portable meter testing was conducted in early September, with tests performed on several new siphons. MBK is coordinating with Dave Forkel to capture the fall/winter flooding with portable meter testing on siphons.

Site visits were conducted on Bacon Island on 9/19/19, 9/20/19, and 10/4/19 to survey siphons, conduct portable meter testing, and troubleshoot/program equipment. Site visits were conducted on Bouldin Island on 9/24/19, 9/26/19 and 10/11/19 to survey siphons, conduct portable meter testing, and download data. Survey data was collected on four site visits that include pipe slopes and landside reference elevations. Common issues still being experienced include corrosion, durability of equipment, and communication related issues.

# Reclamation District No. 2025 Holland Tract

## Issue Tracking Summary

10/11/2019

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
2	Medium	9/13/2016	Russ Ryan	Station 185	Crack	Crack in splash cap near leak	Monitor	Monitor; See photos
7	Medium	10/31/2016	Contra Costa County	Station 519-550	Crack	Pavement cracking on levee crown roadway; sloughing on landside hinge	Repair	NH and DF to schedule site visit and develop plan; Proposal received from Hultgren-Tillis; field work complete; geotechnical report finalized and issued
22	Low	2/10/2017	Nate Hershey	Station 545+80	Boil	Boil in landside slope	Monitor	Directed Asta to build a containment berm; Berm constructed; continue to monitor. 2/13/17 No flow coming through levee, relatively dry
25	Medium	2/13/2017	Nate Hershey	Station 105	Erosion	Erosion site	Repair	Repair; Monitor and repair when feasible
28	Low	2/18/2017	Russ Ryan	Station 315+75	Rodent Activity	Rodent Activity	Repair	Repair; Monitor and repair when feasible
40	Low	3/22/2017	Dave Forkel	Station 465	Encroachment	Abandoned 8" siphon	Repair	Investigate and remove
60	Medium	1/18/2018	Brian Janowiak	Station 414-417	Other	Rodent activity	Monitor	Minor squirrel activity, mostly on upper LS slope. One larger void in levee crest (Sta 417) may need to be excavated.
87	Medium	6/5/2019	Dave Forkel	Sta 478+00	Encroachment	Abandoned 6" siphon observed low in levee, see Jaime email for photo.	Investigate	Schedule removal during County road repaving