

T-S IRWM: Prop. 84 Round 2 IRWM Grant Funding Update

(Report is a summary of the progress reports submitted to Department of Water Resources for reporting period ending December 31, 2016.)

Project #1: Murphys Sanitary District Wastewater Treatment Facility Spray-field Improvement Project

Work Accomplished During This Reporting Period

On 7/8/16 the Notice of Award to KW Emerson for their bid of \$187,127.00 was delivered and on 7/14/16 the Notice to proceed was issued. Construction commenced on 7/18/16. ON 7/25/16, an issue developed with spray filed area #3. To achieve the required drip line clearance between the sprinklers and the Oak Trees, the line would have to be moved into an area along the hillside which had a lava cap covering the entirety of the hill leaving a soil depth of 0" to 1" which would have minimal to no ground percolation. It was determined that not installing spray filed #3 was the best option. See Request for Information 0001 submittal attached with this report. There was a total of twenty (20) work days; the last work day for KW Emerson was performed on 8/18/16. Weekly maintenance and daily inspection of the spray field area was performed to prevent or minimize erosion or sedimentation. No erosion or sedimentation occurred during or after construction.

Scheduling Concerns & Outstanding Issues

While digging during construction around the current utilities, the effluent line and flowmeter from Ironstone were damaged. Repairing of this damage will be done after the Spray Field construction has been completed.

Deliverables Completed This Reporting Period

Notice of Award, Notice to Proceed, Pre-Construction Photos, Photographic documentation, Engineer's Certification, Monitoring Data, Plan & Wildlife Survey Results and Notice of Completion.

Work Anticipated for Next Period

Repairing of the effluent line and flowmeter to Hay Station. Submit invoices for payment. Submit quarterly monitoring reports.

Project #2: U.S. Forest Service (USFS) – Stanislaus National Forest Upper South Fork Stanislaus River Watershed Restoration and Water Quality Enhancement Project

Work Accomplished During This Reporting Period

- Survey designs and data entry for Components 2 and 4 (Bloomer Lake, Bluff, Groundhog, Upper, and Middle Three Meadows) was completed. Component 3 was completed in a previous reporting period.
- Components 2 and 4 of Environmental Documentation Management – NEPA scoping and some report writing completed.

Scheduling Concerns & Outstanding Issues

- CEQA was not completed prior to implementation of the culvert maintenance, as this activity occurred prior to submittal of the USFS Project #2 IRWMP application. The USFS

used federal funds on federal lands, so CEQA was not required at the time and was not completed. The USFS is coordinating with TCRCD to see if CEQA is required for projects to be used as match, and, if so, if CEQA can be completed after a project is already implemented. The USFS has brought forward alternative sources of match that can be used instead of the culvert project (Component 5) that would have CEQA compliance. This may be an alternative to trying to obtain post-implementation CEQA compliance.

- The USFS anticipates submitting permit applications to the US Army Corps of Engineers and Water Board for Components 2 and 4 in March, 2017. However, these agencies will not issue permits without the Biological Opinion (BO) for Yosemite toad, issued by US Fish and Wildlife Service (USFWS). The USFS has a Programmatic BO for Yosemite toad, and Components 2 and 4 were submitted in August 2016 to be appended to that BO. The USFS has now been told by USFWS that the Programmatic BO has to be updated to cover newly designated "Critical Habitat". Both Components 2 and 4 fall within Critical Habitat. The USFS is uncertain how long it will take for the BO to be updated and for Components 2 and 4 to be appended. Implementation may be delayed due to this.
- An extension is needed to complete Subtask 4.2.2. Delays in permitting may preclude the USFS from implementing Components 2 and 4 in 2017. It is anticipated that implementation will take 2 field seasons due to the narrow window then the meadow streams are dry and water quality can be protected during implementation.

Deliverables Completed This Reporting Period

- Proposed Actions and Project Initiation Form for Components 2 and 4.
- Construction photos and project completion certification for Component 3.

Work Anticipated for Next Period

- Completion of NEPA for Components 2 and 4 (Task 3.3.2).
- Submittal of permit applications for Components 2 and 4 (Task 3.4.2).
- Continue working on resolution of CEQA compliance issue associated with Subtask 3.3.3 – Preparation and finalization of environmental documentation for Component 5 (Culvert Maintenance).

Project #3: Tuolumne County Resource Conservation District Small Parcel Stormwater Pollution Prevention and Landowner Stewardship Program

Work Accomplished During This Reporting Period

TCRCD has completed development of two tools as part of our Program that are used in our education and outreach. Both tools have educational handouts that are made available when they are on display.

- Mobile WATER Learning Lab which is a 25ft enclosed trailer that was developed to be an interactive display of BMPs and soils education that can teach the same practices that would be a part of workshops. The goal of the trailer is to allow visitors to the trailer the opportunity to learn BMPs in locations where they would be visiting anyway. The trailer is staffed by the district as well as our project partners so that visitors have the opportunity to ask questions and have a more detailed discussion about BMPs they are interested in. The BMPs included in the trailer are;
 - ❖ Rainwater Harvesting
 - ❖ Erosion Control and Stormwater Management, including Rainfall Simulator
 - ❖ Composting

- ❖ Grey Water Reuse, including Laundry to Landscape
- Augmented Reality Sandbox which can be used to educate both elementary and high school students as well as adults on watersheds, geology, topographic mapping, as well as erosion control.

Scheduling Concerns & Outstanding Issues

None.

Deliverables Completed This Reporting Period

- Mobile WATER Learning Lab Concept.
- Photos of mobile WATER learning lab.
- Photos of Augmented Reality Sandbox.
- Photos of Rainfall Simulator and Composting Demonstration.

Work Anticipated for Next Period

TCRCD will be utilizing the Mobile WATER Learning Lab Trailer and Augmented Reality Sandbox in education and outreach events. Additionally, TCRCD is continuing to work on a demonstration site at Sierra Waldorf School in Jamestown.

Project #4 Amador Tuolumne Community Action Agency (ATCAA) Home-Level Water Conservation for the DAC

Work Accomplished During This Reporting Period

ATCAA assessed 15 homes and implemented water savings measures at all of them. Water savings per household increased slightly this quarter maintaining better than 6x the original plan. Performance metrics are included in ATCAA's Quarterly Project Completion Report #6, submitted concurrently with this report.

Scheduling Concerns & Outstanding Issues

Previously identified capacity constraints have been resolved however the project has been put on hold effective 12/1/2016. ATCAA has not been reimbursed for any expenditure on this program dating back to November 2015. With expenditures totaling more than \$85K through 4th Quarter of 2016, ATCAA cannot continue to cover the carrying costs. After payment of invoices, ATCAA will subsequently request a schedule extension.

Deliverables Completed This Reporting Period

ATCAA developed and submitted Quarterly Project Completion Report #5

Work Anticipated for Next Period

Subject to when past due invoices are paid and this project is restarted, ATCAA is anticipating the following work during the next reporting period.

- Procurement of additional Program inventory (showerheads, aerators, washing machines, etc.)
- Continued implementation of water savings measures
- Preparation and submittal of Invoice
- Preparation and Submittal of Quarterly Progress Report #6
- Preparation and Submittal of Quarterly Project Completion Report #6

Project #5: Tuolumne Utilities District Phoenix Lake Preservation and Restoration-Phase II

Work Accomplished During This Reporting Period

- TUD executed an agreement with the owner of lands adjacent to the project site for the reuse of the dredging spoils.
- Aerial topographic survey was conducted in December. Grading plans, cut and fill volumes, and a phasing plan have been developed.
- Completed and submitted to resource agencies a Sediment Sampling and Analysis Report.

Scheduling Concerns & Outstanding Issues

The project schedule had all engineering, environmental review, and permitting being completed by June 2017. District staff are requesting that this date be pushed back to late winter or early spring of 2018 to account for time lost waiting for approval of the project amendment and other unforeseen circumstances. TUD is hopeful that construction can still begin by late spring 2018; however, construction is sensitive to weather and the start of construction could be subject to delay. Once construction begins, we expect it to span two construction seasons and be completed in fall 2019.

Deliverables Completed This Reporting Period

None.

Work Anticipated for Next Period

Not Specified.

Project #6: Tuolumne River Trust Tuolumne-Stanislaus Watershed Outreach and Stewardship

Project is complete.

Project #7: Calaveras County Water District Douglas flat/Vallecito Storage Pond Project

Work Accomplished During This Reporting Period

CCWD staff met with the owner of Chatom Vineyards, the project partner who has requested the receipt of recycled water developed as part of the project. Based on the results of the meeting staff agreed to start to develop a “water balance”, which would be required for the permit to serve recycled water to the property.

Scheduling Concerns & Outstanding Issues

None.

Deliverables Completed This Reporting Period

None.

Work Anticipated for Next Period

CCWD will present to the CCWD board a “budgetary change” and approval of the revised scope of the project. CCWD will work to the finalize a “water balance” for the anticipated use of recycled water at the vineyard.

Project #8: Groveland Community Services District (GCSD) Sewer Lift Station Water Quality Protection Project

Work Accomplished During This Reporting Period

GCSD issues Notice to Proceed to RTC construction on September 6, 2016. Substantial completion is expected to occur in February 2017. The following improvements have been completed to date:

- New MCC was assembled, installed and tested.
- The wet well has been coated.
- The piping inside the drywell has been replaced.
- The piping along the force main has been replaced.
- The lift pumps have been refurbished.
- The new influent pipe to the wet well has been constructed.

Scheduling Concerns & Outstanding Issues

None.

Deliverables Completed This Reporting Period

None.

Work Anticipated for Next Period

Complete construction at Lift Station 16.