



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

July 1, 2019

MONTHLY ACTIVITIES- June 2019

- 1) Scheduled a meeting with Washoe County Planners/Community Services team for late July to introduce them to CTWCD and discuss District maintenance objectives and 408 Permit requirements.
- 2) NDOT Spaghetti Bowl Improvements- Follow up from June meeting regarding Tribal Consultation, SHPO MOA and draft 408 Permit language;
- 3) Monitoring river flows for scheduling of delayed semi-annual inspection; looks like flows will decline to 500cfs or less in the next few weeks. Monitor river for notable trees and debris in channel.
- 4) Discuss flow levels with Reno Stoker Project Contractor and TMWA Portage Project engineer.
- 5) Discuss multiple portage projects including maintenance and alternatives for river facilities at Glendale and Orr Ditch; discuss actions needing a 408 Permit and those considered maintenance.
- 6) Complete evaluation and development of flow model WSEL near Orr Ditch weir for potential project; information provided to requestor.
- 7) Follow-up with RSIC regarding Right of Entry Agreement; RSIC counsel to determine whether to pursue and extension to existing agreement or new approvals.

UPCOMING ACTIVITIES

- 1) Semi- Annual River Inspection and USACE Report; delayed due to high river flows but expected to take place in mid-July.
- 2) Continue working with project proponents for encroachment permit applications for NDOT Spaghetti Bowl Project, USFWS fish passage projects, RTC Mixed Use Path, Arlington Bridge replacement review and other projects within the 14,000cfs flow channel.
- 3) Schedule informational meetings with potential entities with river crossings to inform them of CTWCD maintenance activities/capabilities and 408 Encroachment Permit requirements for projects along and across the river.
- 4) Draft and mail letters to homeowners along Idlewild Drive notifying them of encroachment requirements and limitations.

- 5) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review and differences.
- 6) Discuss 2-D Model updates with TRFMA and opportunity for CTWCD to use this model update; Model nearly completed and will be made available to CTWCD by TRFMA.
- 7) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 8) Continue to evaluate and discuss temporary flood control measures including flow limitations, cost, storage, installation requirements and options for West Street Plaza and Booth-Riverside Drive areas.
- 9) Run 14,000cfs steady state HEC-RAS flow model to establish water surface elevations along key river locations to evaluate issues; complete sections upstream and downstream of downtown.
- 10) Continued coordination with City of Reno for 1) Flood Response evaluation and incorporation of Interim Risk Reduction Measures into their Flood Response Plan, and 2) Flap-gate Installation needs assessment and installation project.
- 11) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

SUMMARY REPORT

A meeting has been scheduled for July 25th with teams from Washoe County to make a short presentation regarding the origin and current functions of the District including a focus on our debris and deposit maintenance of the channel as well as our responsibility to prevent encroachments in the 14,000cfs flow channel. The group will be informed about the process and need for 408 Encroachment Permitting, authorized by the USACE, and the timeline for obtaining such permit. Tri Sage and Superintendent Penrose are scheduled to attend this discussion.

Tri Sage has followed up on several Spaghetti Bowl Xpress Project items that came from the June meeting with the USACE in Sacramento. Specifically, there are not believed to be any outstanding hydraulic review issues to address; however, there are outstanding tribal consultation documentation and a SHPO MOA that need to be finalized to comply with the NEPA requirements. The USACE has provided a portion of the updated Permit language for this permit which is being processed under the newly adopted Categorical Permission process; however, the balance of the permit language is dependent upon the SHPO agreement criteria. The use of the Categorical Permission allows for a somewhat lessened review at the USACE office and authorization of the permit by lesser ranking officials in the USACE which is the benefit of this approach to the applicant.

Elevated River flows have been the topic of several discussions this month. First the District has delayed the Semi-Annual inspection due to the elevated flows. It is expected that flows will be down into the 500cfs or less level in the next several weeks and the inspection will be scheduled once flows recede. Projects have been delayed due to the elevated flows and the project engineers/construction contractors have been asking for information as to when flow are expected to recede so that their work

can be conducted. The City of Reno Stoker Storm Drain Outfall is pending construction late this summer and river flows will need to be diverted to construct this outfall; the contractor is concerned about flows and timelines. The portage work at Glendale has been challenged by high waters making the clearing of vegetation more challenging. Tri Sage will work with the Watermaster's office to assist project proponents with flow expectations and timing; Flows may increase early this fall if reservoirs remain full and waters must be released to reach flood control levels.

Tri Sage is waiting to hear back from RSIC regarding our request to renew the expired Right of Entry Agreement. As of last month, the RSIC was going to review the request and determine if they prefer to extend the existing Entry Agreement by way of an amendment or whether they prefer to take a new agreement to Council for approval. Either approach works for the District so we have provided a draft of a new agreement and if the RSIC prefers an amendment to the existing dates, we can have counsel draft an amendment to that end. Tri Sage will check back with RSIC during July. This agreement is not needed until the District needs to remove debris from the channel along these RSIC properties which may or may not occur during our fall debris removal work.

Work and evaluation of the 14,000cfs flow model at the possible TMWA project at the Orr Ditch Intake to the Chalk Bluff Plant was completed this month. Since no flow model currently existed in this area, the District created some model sections and used some existing flood plain information and drawings to estimate the WSEL of a 14,000cfs flow in order to evaluate the need for a permit for such a project and to identify areas/elevations outside the jurisdiction of the District. A map of the inundated areas has been created and overlaid on the facility aerial view as well as cross-sections with WSELs at the 14,000cfs flow.

The City of Reno has initiated Phase I of the Flap-Gate installation project as this project has been awarded. This project will generally install inline check valves at penetrations into the flow channel along the Truckee River walls downtown with installations beginning in fall 2019. This project was initiated to address the USACE inspection issue; this project was delayed due to high flows and funding needs to deal with the 2017 Flood projects. Tri Sage will monitor and document this work so that it can be reported to the USACE.

The section that pertained to the USACE April 2013 Inspection report has been eliminated from this report; and it is recommend the District continue to pursue improvements and correction of items noted in that last inspection report. The District has addressed or is currently addressing those items through its work.