



**TRI SAGE CONSULTING**  
**Monthly Report**  
**Carson Truckee Water Conservancy District**

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October 1, 2018

**MONTHLY ACTIVITIES- September**

- 1) TMWA Glendale Diversion Repairs – multiple emails, drafting permit, permit processing for execution and mailing to USACE for execution.
- 2) NDOT Spaghetti Bowl Improvements – multiple emails with USACE and NDOT regarding application and additional information needed by USACE for review; review of application by District hydraulic engineer.
- 3) Draft Service Agreement and scope of work for DF Drumm Debris removal work authorized by the Board; pursue right of entry authorizations and agreements with private property owners.
- 4) Follow-up with DEM regarding outstanding FEMA Grant; Grant is pending second level review.
- 5) Inspect possible encroachment/debris dumped in river from 4250 Truckee River Trail and reported to the City of Reno; follow up with code enforcement.

**UPCOMING ACTIVITIES**

- 1) Monitor debris removal work and write report for this maintenance activity.
- 2) Continue working with project proponents for encroachment permit applications for NDOT Spaghetti Bowl Project, USFWS fish passage projects, TMWA Glendale Diversion Repair project and other projects within the 14,000cfs flow channel.
- 3) Renew the Nevada Division of State Lands Entry License for the Truckee River which expires December 31, 2018; The District will want the new agreement in place for 2019 removal needs.
- 4) Draft and mail letters to home owners along Idlewild Drive notifying them of encroachment requirements and limitations.
- 5) Follow-up with local agencies and project applicants on possible participation in the flow model updates for their impacted areas; bring findings back to District Board for discussion.
- 6) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review once in place.
- 7) 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.

- 8) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 9) 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.
- 10) 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.
- 11) 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.
- 12) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

## **SUMMARY REPORT**

During this period, Tri Sage has followed up with the State DEM regarding the FEMA Grant Award CTWC A04 for work completed at last fall; DEM has responded to this inquiry stating that our award is undergoing second level review. We have had only one inquiry to date regarding audited financial reports for the District. The amount of the pending award is \$52,162.50.

Tri Sage has been working with TMWA and USACE to get the approved wording for the 408 Permit and to get the permit executed by TMWA and the District and mailed to USACE for execution upon their completion of the review. Tri Sage previously re-submitted the permit application package to the USACE for the 2010 Permit, and the USACE has agreed to issue a 408 Permit for this project in 2018. The USACE also has agreed that the erosion repair plan for the planned repairs from erosion damage caused by the 2017 flood can be implemented under this 408 Permit to be issued and this work can be performed as maintenance of the original project. No additional permitting will be required for the repairs as long as the repairs do not change the water surface elevations and use materials approved for the original project then the “maintenance” provisions of the Martis Agreement apply. TMWA has designed the flood repairs to meet these conditions and plans to implement repairs in the fall of 2019.

Tri Sage has continued to work between the NDOT Spaghetti Bowl Project team and USACE for the 408 Permit for this project. The District’s hydraulic engineer has the application and is reviewing the details; the final review this week will either recommend approval to the District Board, or request additional information from NDOT. The USACE Hydraulic team has requested more information on the models, timing, impacts of the planned project on the flood channel; this information has been provided by the NDOT team and has been sent to the USACE. USACE has issued notice of the project from their NEPA group and has requested Section 106 & Tribal consultation information and EIS information from NDOT once these elements are completed. Although the first phase of the project will add a bridge across the river that will clear-span the 14,000cfs flow channel, NDOT expects that the contractor will

require temporary encroachments into the 14,000cfs channel in order to build platforms from which bridge girders may be set in place; these temporary pads have now impacted the requirements for USACE review. NDOT would like to construct the new bridge in 2019 if they can get all permits in hand.

Tri Sage along with Superintendent Penrose has completed an updated river inspection to identify debris that needs to be removed this fall. Tri Sage has drafted a Service Agreement with DF Drumm for the removal of this debris not to exceed \$25,000 as directed by the Board. Tri Sage has also drafted a scope of work document for the contract which has photos and access information for each area where debris is to be removed. Tri Sage has requested entry authorizations from private land owners with debris to be removed and will work with the owners or if authorization is not received, debris will be eliminated from this work scope. Tri Sage will work with DF Drumm to schedule this work during October when river flows are expected to be at their lowest and Tri Sage will monitor this work for reporting to agencies.

The City of Reno is preparing to initiate Phase I of the Flap-Gate installation project. This project will generally install inline check valves at penetrations into the flow channel along the Truckee River walls downtown with installations beginning in 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.

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.