



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

---

September, 30 2019

**MONTHLY ACTIVITIES- September 2019**

- 1) NDOT Spaghetti Bowl Improvements- update permit with final USACE conditions, have legal review and get permit executed by District and NDOT; forward original permits for signature to USACE.
- 2) Request interest from contractors for Debris Removal Work; will secure pricing next month.
- 3) Evaluate project flow model/permit requirement inquiries for parcel near Dickerson Road, rock placement along Galetti Way wall, TMWA Loo project, and TMWA Washoe Diversion Portage Project.
- 4) Meet USACE Regulatory at Glendale Project regarding emergency Permit for temporary diversion due to higher than expected river flows; request approvals from Chairman and Superintendent.
- 5) Contact RSIC for Right of Entry Authorization for the removal of Debris along Tribal Properties.
- 6) Follow up with One Truckee River on meeting attendance for District.
- 7) Monitor river flow levels with Water Master and update Reno Stoker Project Contractor and TMWA Glendale engineer on flow changes; document projects.
- 8) Work with upcoming project applicants regarding flow model requirements including RTC Mixed-Use Path.
- 9) Release model engineer to update flow model upstream of Booth Bridge as approved by the board.

**UPCOMING ACTIVITIES**

- 1) Develop and update list of debris to be removed in fall debris removal project; work to on-board contractors and obtain quotes to complete the removal work identified. Monitor and Report on work in waterways.
- 2) Continue to follow-up with RSIC regarding Right of Entry Agreement for Fall debris removal work.
- 3) Continue working with project proponents for encroachment permit applications for NDOT Spaghetti Bowl Project, RTC Mixed Use Path, Washoe County River Bend Trail, USFWS fish

passage projects, TMWA Washoe Diversion Portage, Arlington Bridge replacement review and other projects within the 14,000cfs flow channel.

- 4) 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. Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review and differences.
- 5) Draft and mail letters to homeowners along Idlewild Drive notifying them of encroachment requirements and limitations.
- 6) Discuss 2-D Model updates with TRFMA and opportunity for CTWCD to use this model update; when completed model 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**

Tri Sage has worked with the parties to finalize and get executed by NDOT and the District the 408 Permit for the Spaghetti Bowl Xpress Project. The final routing and review is underway at the USACE Flood Branch; and the fully executed permit is expected in the next few weeks.

During the Semi-Annual River Inspection about 25-30 areas of debris or dead trees were identified for removal during the fall project. Several of the past contractors have been asked if they are interested in participating in this work again this fall and at least two contractors have expressed interest. A final list of debris is being compiled and quotes will be requested for this work during October; and contractors will be on-boarded for this work. Work will be prioritized and scheduled prior to year-end within the Boards authorized limits.

As authorized by the District Board, the flow modeling engineer from Dyer has been released to develop and update the flow model for the river upstream of Booth St Bridge. The project is expected to begin in November and be completed by May 2020. In the meantime, we will do our best to respond to specific project inquiries in the unmodeled areas.

The City of Reno Stoker Storm Drain Outfall Permit 16-03 is completed. TMWA's repairs of the Glendale Diversion as a maintenance to an existing permitted structure is underway; Permit 18-03. Due to the higher than expected flows in the river, TMWA applied for an Emergency Permit from the USACE Regulatory Branch and the District was requested to provide concurrence with this permit due to the use of temporary fill materials in the river channel during the project work. Both the Board Chairman and the Superintendent concurred that the erosion repairs to this structure were critical and the temporary diversion structure was acceptable to the District.

Tri Sage is waiting to hear back from RSIC regarding our request to renew the expired Right of Entry Agreement which was supposed to be placed on the RSIC agenda for late September or early October. The RSIC seems interested in providing this access so that the District may remove several pieces of debris from their properties.

Per the Board Direction, Tri Sage has connected Mary Pat with the One Truckee River project and requested that the District attend several meetings of the group prior to joining the advisory board to ensure that there is a purpose which fits with the District's responsibilities. Meeting attendance has been pushed out to 2020 because the next several meetings of the group will be focused at internal process and structure.

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.