



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

October 31, 2019

MONTHLY ACTIVITIES- October 2019

- 1) NDOT Spaghetti Bowl Improvements – Prepare District’s invoice for NDOTs payment for review of project application and models; follow up with USACE on Permit timing.
- 2) Prepare Debris Removal Scope of Work Documents for two contractors; field inspect removal needs & access and request pricing.
- 3) Pursue Debris Removal Project Right of Entry with RSIC and Washoe County Parks as well as private property owner; Finalize RSIC ROE notice requirements.
- 4) Pursue Center Street Bridge access and loading information from City for possible shoal vegetation removal work.
- 5) Prepare Debris Removal Service Agreements and pursue insurance certificates and business/contractor licenses; work pending pricing and entry access.
- 6) Request Quote from City’s preferred tree removal contractor for dead trees in parks; request Board Authorization to spend up to \$10,000 on tree removals.
- 7) Meet with Keep Truckee Meadows Beautiful with Superintendent and discuss District functions and purpose as well
- 8) Prepare inundation map for Dickerson Property and discuss parcel building/construction limitations within 14,000cfs channel.
- 9) Review One Truckee River BOR Grant Request and forward to Superintendent for action with comments.
- 10) Monitor river flow levels with Water Master and update Reno Stoker Project Contractor and TMWA Glendale engineer on flow changes; document projects.
- 11) Work with upcoming project applicants regarding flow model requirements including RTC Mixed-Use Path.
- 12) Release model engineer to update flow model upstream of Booth Bridge as approved by the board.

UPCOMING ACTIVITIES

- 1) Complete Debris Removal Work Service Agreements and Paperwork including finalizing ROEs.

- 2) Monitor Debris Removal Work and document work for NDEP Working in Waterways Report.
- 3) Schedule and Perform USACE Semi- Annual Inspection and update Debris Removal Scope of work if additional debris is identified during inspection; Draft Semi Annual Report for USACE.
- 4) Follow up on NDOT Spaghetti Bowl Permit and payment of District Invoice.
- 5) Continue working with project proponents for encroachment permit applications for RTC Mixed Use Path, Washoe County River Bend Trail, TMWA Washoe Diversion Portage, USFWS fish passage projects, Arlington Bridge replacement review and other projects within the 14,000cfs flow channel.
- 6) 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.
- 7) Draft and mail letters to homeowners along Idlewild Drive notifying them of encroachment requirements and limitations.
- 8) 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.
- 9) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

SUMMARY REPORT

The fully executed 408 Permit for the NDOT Spaghetti Bowl Xpress project is expected to be issued in early November. In anticipation of this permit being authorized, Tri Sage has prepared and invoice for the permit application and model reviews conducted for the District. This invoice has been issued to the NDOT engineer for this project.

Tri Sage is in full swing to get the annual debris removal work on the Truckee River underway. The scope of work has been developed (pending new debris identified during the annual inspection) and separate scopes of work have been provided to two separate contractors who are interested in performing this work for the District. Service Agreements as well as pricing for the work and all

required insurance documents are in process with the two contractors. RSIC has finalized the Right of Entry (ROE) for the tribal properties and has provided some pre-project contact information for the properties. Washoe County is processing a ROE for the Mayberry Park parcels and private property owners have been contacted for access. In addition, the City of Reno has provided information requested by the District for the use of equipment on the Center Street bridge so that the large woody vegetation may be cut from the shoal deposit downstream of this bridge if debris removal funding permits; the bridge walkway design provides only limited access for the removal work. 2019 Debris Removal Work is expected to begin in early November and be completed prior to year end.

In addition to the downed trees and debris that need removed from the channel, several dead snags have been identified for removal in City Park areas. The City has authorized the removal of two of these snags in Idlewild Park and has recommended their preferred tree service for this removal work. Quotes on two trees have been received from the Tree Service and are quite reasonable compared to the expected cost of waiting until these trees fall into the river and removing them from the flow which is expected to be much higher than the quotes to take the trees down on the banks. Tri Sage will be requesting authorization from the Board to spend up to \$10,000 to remove these two quoted trees, plus one additional tree that the City is reluctant to authorize for removal. Tri Sage plans to work with the City to see if the third tree can be authorized and if the City will allow for removal, to get a quote for such from the City Preferred Tree Service.

Superintendent Penrose and Tri Sage met with a Keep Truckee Meadows Beautiful (KTMB) representative to discuss the District's responsibilities and how the two organizations might work together on common goals to support the river. The contact info has been passed along for addition to the grant notifications when the District is offering matching funds for projects on the river an KTMB can be made aware of these opportunities. In addition, KTMB will notify the District office of river clean up events or other events that the District or its members might want to participate in or support.

One Truckee River requested support from the District on a Bureau of Reclamation Grant application focused on one of the goals for vegetation management. This request and application was briefly reviewed and comments were passed along to the District Superintendent for his review and action as the Board designated representative to the One Truckee River organization. At a minimum, Tri Sage recommends that the District keep an eye on this "vegetation management" goal to insure that the OTR goal aligns with maintaining the flood channel free of encroachments including vegetation.

TMWA completed the maintenance repairs to the Glendale Diversion under Encroachment Permit 18-03 and all temporary fill placed in the river to complete the project work under the USACE Emergency Fill Placement RGP8 has been removed from the river channel. The design of the structure hardening repairs are consistent with the original design channel capacity and maintained all hardening materials at elevations of the original design in order to maintain the flow channel without encroachment. The materials placed were all set to verified elevation of the original design.

RSIC has issued a new Right of Entry authorization for the District to access the river and remove debris from and through the RSIC properties through 2021.

The City of Reno has initiated Phase I of the Flap-Gate installation project as this project has been awarded and materials have been ordered. This project will generally install inline check valves at penetrations into the flow channel along the Truckee River walls downtown. Installations will begin as soon as the materials are received; check valves delivery has taken longer than expected. 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.