



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

June 2, 2020

MONTHLY ACTIVITIES- May 2020

- 1) Notify USACE and RTC of District Approval of Mixed Use Path Permit; Follow up with USACE on Completeness Review of Application.
- 2) Follow up with USACE regarding review of RTC project and need for 214 Funding Agreement to get project reviewed.
- 3) Field Inspection of tree in river at Idlewild; tree removed by City Forester and public works crews.
- 4) Work continued to finalize the details of the River Flow Model upstream of Booth Bridge and prepare inundation mapping layer for use by the planning agencies for the determination of 408 Permit requirements.
- 5) Prepare and review flow modeling work for Kayak Park sediment evaluation and provide next steps for evaluation of maintenance requirements.
- 6) Update to base model for Arlington Bridge reviews and deliver model to Jacobs RTC's Project Engineer.
- 7) Provide inundation maps for Keystone Bridge area and meet with City in field to discuss options and limitations for rock placement outside flood channel for camping deterrent.
- 8) Review YTD spending and approximate remaining dollars available; delay river inspection until new fiscal budget in July.
- 9) Draft a Permit Fee Policy for legal and Board review and prepare an updated draft Encroachment Permit Application to include the Policy.
- 10) Transitioning engineering support has been put on hold during this COVID Period and Lori Williams is continuing to support District needs.

UPCOMING ACTIVITIES

- 1) Complete Semi-Annual Inspection in July and draft report for USACE; scout trees and debris for fall removal project during inspection.
- 2) Continue working with project proponents for encroachment permit applications for RTC Mixed Use Path, USFWS fish passage projects, Arlington Bridge replacement review and other projects within the 14,000cfs flow channel.

- 3) Collaborate with the City Forester for the removal of beaver damaged trees within the 14,000cfs flood channel; plan projects for Fiscal Year 2020-2021.
- 4) Continue transitioning Tri Sage Lead Engineer.
- 5) Continue evaluation of the deposits within the Kayak Park Project in Wingfield Park and establish a river capacity maintenance plan with the City based on this evaluation.
- 6) Contact the City Manager's Office for an update and response to the letter from the District regarding encroachments.
- 7) 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. Communicate updated fees and Fee Policy for 408 Permit Review if approved by the Board.
- 8) Draft and mail letters to homeowners along Idlewild Drive notifying them of encroachment requirements and limitations.
- 9) 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.
- 10) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 11) 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.
- 12) 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 and produce inundation map layer for addition to County maps.
- 13) 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 Phase 2 needs assessment and installation project.
- 14) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District jurisdiction;

SUMMARY REPORT

Tri Sage scheduled to meet the City Forester to look at a tree in the river at Idlewild Park. When Tri Sage arrived, the City Forester crew and City Public works had just successfully pulled the large branchy tree onto the bank. This help from the City for the removal of the tree is much appreciated and further evidence of the collaborative efforts which have been developed between the District and City.

The RTC Mixed Use Path Project application for a 408 Encroachment Permit has been approved unanimously by the District Board. Tri Sage has notified both the applicant and the USACE Flood branch of this approval. The USACE has again suggested that the project seek a 214 Funding agreement

for the project's review as the USACE believes their funding for 408 Permit reviews will run short this summer and barring a funding agreement projects will not be reviewed until a new fiscal budget is in place in October. RTC has been requesting a consultation for such a funding agreement for more than two months and USACE has yet to respond to their request nor to the District's request for a response. Tri Sage has requested confirmation of the application "completeness" for this project and has offered a meeting with the applicant to go over the complex NEPA documentation; this completeness review was due from USACE on about May 6th and has yet to be received.

Work on the Upstream River Flow Model is winding down with final details being applied to the model and the inundation mapping layers being developed for sharing with the City and County Planning agencies. The project will be booked as a capital asset for the District and we expect the authorized budget, including a portion approved through the budget augmentation, to be spent prior to fiscal year end. The project is expected to be completed before mid-June.

Tri Sage responded to an inquiry from the City of Reno regarding a desire to armor the areas beneath the Keystone Avenue Bridge to prevent camping under this structure. Inundation maps with water surface elevations were prepared and delivered to the City. A field meeting was held to discuss the limits available to such a project and the boundaries of the 14,000cfs flood channel jurisdiction of the District. The City can rock a great deal of the area outside the 14,000cfs to meet the goals for this project without the need of a 408 Encroachment Permit. This was the only inquiry received this month.

Tri Sage worked with the District Office to draft a Fee Policy draft from the new fee proposal including the additions and notice requested at by the Board at the Last Board meeting. The 408 Permit Application was also updated to include this Policy as an attachment. The draft documents were sent for legal review and updates by District Legal. Both draft documents, the Fee Policy and the Permit Application, will be submitted to the Board for review and possible approval at the meeting.

In a letter sent to the Assistant City Manager of Reno several months back, the District requested the City respond to the letter with information regarding the regulations and ordinances to prevent encroachments in the flood channel as provided in the assurances the City offered to the USACE for the Martis Agreement. The District also requested information related to how these City regulations and ordinances are being implemented relative to maintaining a flood channel free of encroachments. The City Manager's office is in total flux at this time with several "acting" assignments. To date the City has not responded to the District's request from the letter. Once the City Manager's Office gets some stability, Tri Sage will contact the "acting" Assistant City Manager to get a status on this matter.

The evaluation of the Kayak Park sedimentation was put on hold while the modeling engineer focused on creating the new upstream flow model for the District. The model engineer has gotten back to this evaluation of the sedimentation in the kayak park and how this impacts the flow channel capacity. The flow model for the Kayak Park was inaccurate and has been updated using the 2014 LIDAR. The

engineer is now moving to evaluate various sediment loads through the updated model. Once the evaluation is complete the findings will be discussed with the City and a plan for maintenance of the Kayak Park can be established using this flow model information.

The transition of the Tri Sage Team District lead from Lori Williams to Kayla Dowty has been put on hold temporarily due to the pandemic. Once more normal work flow can be pursued this transition will be resumed; at this time Williams continues to support all District work.

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.