



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

June 28, 2018

MONTHLY ACTIVITIES- May- June

- 1) TMWA Glendale Diversion Repairs – multiple emails, information transfers and discussions with TMWA, USACE, Board Chairman, Counsel, and Meeting in Sacramento to discuss 2010 Permit authorization not issued and permit needs for TMWA repair plans.
- 2) Communication with NDOT regarding revocation of the permit request for the Verdi Bridge Scour Project due to changed plans to replace the entire bridge structures in the near future.
- 3) Follow-up emails with USFWS and USACE regarding Grantee and ownership matters; receive updated Technical Memo from Engineer for review.
- 4) Inspect Idlewild Drive property with City of Reno; Call with adjacent property owner regarding allowed improvements and flood flows.
- 5) Call and emails with NDOT project team regarding Spaghetti Bowl Improvements and timing; emails with USACE regarding clarifications of 408 Permit requirement, NEPA participation and availability of funding agreements to move permits through review.
- 6) Board Tour of reservoirs and river system; collect materials for tour in support of Superintendent.
- 7) Follow-up with DEM regarding outstanding FEMA Grant submittals; under review at this time.
- 8) Semi Annual River Inspection; Follow-up with City Parks regarding possible railing encroachment.
- 9) Follow up with Congressman Amodei's office regarding 408 Permit review funding in federal approved budget.

UPCOMING ACTIVITIES

- 1) Draft USACE Semi-Annual Inspection Report; document debris needing removed before flood season.
- 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) Draft and mail letters to home owners along Idlewild Drive notifying them of encroachment requirements and limitations.
- 4) 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.
- 5) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review once in place.
- 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

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 in for review. The amount of the pending award is \$52,162.50.

The NDOT Bridge Scour Project has been pulled by NDOT as they have recently decided to not pursue this project and to pursue the complete replacement of the bridges in the near future. NDOT has fully compensated the District for the permit review.

Tri Sage has provided follow up with USFWS to discuss the permittee/permit grantee for the 408 Permit; to date USFWS does not have a party willing to own the project and become the grantee. USFWS has been advised that the District will generally suspend review until such time as the Permit Grantee is identified; the District's engineer can quickly evaluate the materials once the project owner is identified. USFWS has requested that USACE Flood continue their review of the project so not to delay the projects implementation once an owner is determined. The USACE Regulatory Branch has notified the USFWS that they have suspended the Nationwide Permit request until such time as the project is issued a 408 Permit from the District and the Flood Branch. An updated Technical Memo has been received for this project from the USFWS.

Tri Sage has been working with TMWA and USACE regarding whether a new 408 Permit application will be required for the repair of the Glendale Diversion following the flood of 2017. TMWA now has developed a general plan and drawings for the repairs. The USACE requested a copy of the original 2010 Permit which was evidently never authorized by the USACE due to hydraulic modeling concerns; however, the USACE has been unable to provide any correspondence notifying the District that additional information was still required following a June 2010 meeting and subsequent submittals by TMWA. A meeting was held June 13, 2018 in Sacramento with the USACE regarding the 2010 Permit issues and also the repair plans developed by TMWA. Tri Sage participated in this meeting with the Chairman's approval and after discussing this matter with both the Chairman and counsel. Following the meeting, TMWA was to provide some additional hydraulic information to the USACE regarding the original project and the USACE is going to review the information for the possible issuance of the 2010 Permit. In addition, the USACE is going to determine internally if the repairs proposed by TMWA can be completed as maintenance under the 2010 Permit or if a new 408 Permit will be required for the changes in the rock placement. It is recommended to the Board that if the USACE will agree, that this repair be allowed under the "maintenance" provisions of the Martis Agreement as repair of erosion damage.

Tri Sage has inspected the reported encroachment on Idlewild Drive and found that only a few rocks at the top of the berm were moved while some landscaping work was completed. The homeowner was advised regarding the need for an encroachment permit for projects in the flood channel. This homeowner has referred an adjacent homeowner who contacted the District and was also informed about encroachments and high flows in the river. Tri Sage will draft a letter as approved by the Board to be mailed to all homeowners along Idlewild drive.

Tri Sage has been contacted by the USACE regarding the Spaghetti Bowl Project and then subsequently was contacted by the NDOT engineer for the project. This project is planned to be completed in phases with the first phase including the construction of a new southbound bridge across the river to be built in 2019. This schedule deviates from what the District had been previously communicated which was for selection of an option in 2019 and construction in 2020. A conference call was held with the project team regarding the 408 Permit requirements for this project even if the new south bound bridge is clear-span and 100% outside the flood channel; USACE has confirmed that project over or under the 14,000cfs flood channel also require a permit. Several emails have been sent to the USACE requesting that they become a participating agency in the Federal Highway Administrations NEPA review and inquiring as to whether this project can enter a funding agreement in order to move the review for this permit ahead of the queue. There may be a challenge because NDOT has decided to do a Bid- Design-Build arrangement where the final design will be completed by the contractor awarded the job; the challenge may be to have sufficient design information to submit for the permit while the contractor completes the design. We are awaiting response from the USACE regarding these questions.

Tri Sage attended the tour of the Truckee River system and reservoirs on 6/12/18 and was able to support the Superintendent with the materials and agenda for the tour. Hopefully the members who attended found this tour useful and informative. Thanks to the Federal Water Master's Office who provided a fabulous presentation at the Tahoe Dam which was filled with much pertinent information for the District.

The Semi- Annual River inspection was completed with Board Chairman and Superintendent over two days. The river is generally in good condition with several locations for debris removal identified. In addition, a new railing has been installed at the Oxbow Park viewing platform along the river; Tri Sage has contacted the City Parks Department regarding this potential encroachment and will work with Parks to reach a solution. Tri Sage will be drafting the Semi-Annual USACE report using the information collected from the inspection.

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. 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 emailed Congressman Amodei's office to inquire about the federal budget funding levels for the 408 Permitting Review Processes at the USACE. The Congressman's office has confirmed that funding for the permit reviews was increased nationally from \$3MM to \$8.5MM in the approved budget; it was also confirmed that the next budget which is under review continues funding at this level.

The City is evaluating alternatives for the West Street Plaza interim risk reduction measures to be incorporated into the City's Flood Response Plan while the City works with a potential developer who is interested in the West Street Plaza. The City is working toward an application for a permanent encroachment permit for this project pending the outcome of work with the potential developer.

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.