



FIVE PEAKS CONSULTING
Monthly Engineering Report
Carson Truckee Water Conservancy District

September 9, 2024

MONTHLY ACTIVITIES- August 2024

- 1) Completed bi-annual river inspection. Working to draft the report as well as scopes of work for fall debris removal.
- 2) Received USACE Permission for Sierra Street Geotechnical Boring. Issued draft permit to RTC on 9/9 for review.
- 3) USACE has completed all reviews for the Arlington Bridges Replacement. They are awaiting receipt of the 401 Water Quality Certification and will issue Notice of Complete Submittal.
- 4) Followed up with the City of Reno and TRFMA and agreed to move forward with the 14,000 cfs alternative. There will be a field walk on September 19th to better understand the scope of the project. The intent would be to split the project into two parts – Riverside downstream of Booth would be done as a maintenance project and the area upstream of Booth would go through USACE permitting effort. The next steps will to gain TRFMA board approval to fund the project. Kayla is tentatively scheduled to present at the Technical Advisory Committee Meeting on September 27th.
- 5) Met with USACE on August 20th to review permit status updates. Followed up with project proponents.
- 6) We received a request from USACE for a 2D HEC-RAS model and a blockage calculation to support review of the White Fir project. These seem unnecessary for the type of alteration proposed so we have requested additional reasoning from USACE.
- 7) Corresponded with project proponents for Sierra Street bridge replacement project and continued to participate in design review meetings.
- 8) Corresponded with project proponents for Keystone Avenue bridge replacement project and participated in design review meetings. Held a pre-application meeting with USACE on August 27th. There is a possibility that USACE will require a Drilling & Invasive Program Plan in this area which could impact review times. RTC now has all other permits in hand including NEPA Cat-Ex. Requesting CTWCD Board approval of this permit and Statement of No Objection.
- 9) Received notification from USACE that the Section 408 program is currently anticipating a budgetary shortfall that will impact the capacity of the Sacramento District 408 Permissions Program to respond to ongoing and new requests to alter USACE projects. Funding for the USACE Section 408 program is managed by USACE Headquarters and the scope of impact of the funding shortfall on the Sacramento District is uncertain. This will most likely impact the White Fir reviews.

- 10) Corresponded with NV Energy regarding power line replacement in Verdi and the need for a 408 permit.
- 11) Corresponded with JUB regarding maintenance on TMWA's Idlewild Pump Station. Kick-off meeting scheduled for September 12th.
- 12) Held a kick-off meeting with TMWA and HDR on September 6th to discuss the Highland Bridge Replacement.
- 13) Received a phone call from Jones Street condos notifying us of a resident that was building a patio within the 14,000 cfs limits. The owner was contacted and CTWCD provided some guidance to remedy prior to flood season. We have offered to provide an informational session at the next HOA meeting. We are also drafting a letter notifying all owners of the 14,000 cfs construction boundary and permit process.
- 14) Continued discussions with JUB and TRFMA regarding merging the CTWCD and TRFMA HEC-RAS models into one model to streamline future permitting and modeling efforts. This does not seem to be achievable at this point due to jurisdiction boundaries and flow rates.
- 15) Received USACE Truckee River field inspection report on June 27, 2023. We received follow up from NV Energy that 1 of the 3 identified powerline crossings pre-dated the Martis Creek agreement. Other 2 crossings will require as-built 408 applications. We had a meeting with the City of Reno on March 15th to discuss additional flap gates required. Continuing to follow up with USACE inspection team.
- 16) Review projects near river for Permit requirements; provide inundation maps for parcels, as required. This included discussions with NVE regarding powerline replacements, upcoming Trout Unlimited J-hook weir structures in Verdi, as well as other various projects/parcels adjacent to the flood channel.

UPCOMING ACTIVITIES

- 1) Meet with One Truckee River to review 90% plans for Brodhead Park Restoration and provide guidance on whether a 408 permit will be required. Also provide guidance on their Urban Tree Workforce Program to ensure work does not require permitting.
- 2) Follow up with City of Reno on the meeting that was held on June 29th to confirm that West Street Plaza is included in their Flood Response Action Plan (FRAP) and pursue a final encroachment permit.
- 3) Continue to participate in monthly check in meeting with USACE. These are scheduled for the third Tuesday of every month.
- 4) Draft letter to Waste Management regarding their responsibility to keep the river bank that they own to OHWM secure and clear of encroachments and hazard trees.
- 5) Finalize work on guidance document and installation details for rip rap placement for erosion repairs within the 14,000 cfs flood channel.
- 6) Continue to collaborate with the City Forester for the removal of hazard trees within the 14,000cfs flood channel if budget dollars permit.

- 7) Continue working with project proponents for encroachment permit applications for One Truckee River Brodhead Park, USFWS fish passage projects, NDOT I-80 Verdi Bridge Replacement Project, Keystone/Sierra Bridges replacement project, NV Energy powerline rebuilds, TMWA maintenance projects and other projects within the 14,000cfs flow channel.
- 8) 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.
- 9) Continued coordination with City of Reno for 1) Flood Response evaluation and incorporation of Interim Risk Reduction Measures into their Flood Response Plan for West Street Plaza, Oxbow Park Platform and Riverside Drive, and 2) Flap-gate Installation Phase 2 needs assessment and installation project.

SUMMARY REPORT

The 408 application for 25 White Fir was finalized and sent to USACE on January 23rd, along with CTWCD's Statement of No Objection. We received initial comments from USACE on February 21st. Comments included requested additions to the Section 106 cultural report, real estate verification and request for categorical permission checklist. These comments were provided to the project proponent to address. The project proponent provided a complete response and the updated files were sent to USACE on May 8th. We received additional environmental and cultural comments on June 14th and provided a response on June 24th. We later received a request from USACE hydraulics for a 2D model to support their review. This request doesn't make sense for this project and we have requested further clarification. USACE indicated that they are seeing WSE increases beyond the threshold which is in conflict to what our modeling shows. We have requested a meeting with hydraulics to align.

Reno Sparks Indian Colony reached out in January to discuss the permit and associated permit window for the Truckee River Shared Use Path that was permitted as project CTWCD 20-01. This was originally permitted by RTC to be completed in parallel with the NDOT SBX project. It was not completed as part of the NDOT SBX Project because necessary ROW/easements were not transferred by RSIC as originally committed such that a continuous pathway was not able to be provided. The RSIC is now internally working to determine if/how to advance necessary ROW/easements to facilitate advancement of the project – which would include final design and construction. RSIC is hoping to move this project forward with a phased approach. We will follow up with RSIC this month.

RTC and Jacobs has completed the design for the Arlington Avenue Bridges Replacement Project. RTC is hoping to receive USACE permission for the project in 2024 to allow construction to start in early 2025. FHWA is the lead federal agency so they are completing the overall NEPA decision and have issued a Categorical Exclusion. The hydraulic modeling shows that the bridge deck is not inundated at

14,000cfs which is important for USACE. Other benefits of the project include removal of the sediment deposits in the kayak park, as well as a maintenance agreement with the City of Reno to keep the park free of future deposition. Additionally, the project includes an equipment access ramp from Island Avenue to support future maintenance access to the kayak park. The application was originally submitted to USACE in March 2023. There were many rounds of comments from USACE, mostly involving the need for a 100% submittal that included the kayak park design. This was originally scheduled to be complete in October 2023, but was not received until March 19th, 2024. There were extensive modeling comments and these were discussed with RTC and Jacobs on April 1st. We received a revised submittal on April 11th. The team met again on April 25th to review modeling concerns and plan set inconsistencies in more detail with a follow up meeting between the hydraulic modelers. We received a final submittal on May 6th and JUB subsequently approved the set to be submitted to USACE for review. The CTWCD Board agreed to resubmit the application to USACE to continue their review of the project. This was packaged and sent to USACE on June 10, 2024. At the request of RTC, USACE received emails from Congressman Amodei's and Senator Cortez Masto's offices regarding USACE's delays and impacts on the overall project. CTWCD Board should discuss how this should be handled. After receiving these emails, USACE rushed their reviews and have accepted the complete application. They are ready to issue permission as soon as they receive the 401 WQC, which is being managed by RTC.

We are making great traction with the City of Reno and TRFMA on addressing the Riverside Drive inundation. TRFMA commissioned a conceptual design that showed a reasonable wall height (< 2.5 feet) to contain 14,000 cfs. Next steps are complete construction plans and bid package, as well as overall project funding. After many discussions with City of Reno and TRFMA, the following roles/responsibilities have been proposed:

1. CTWCD – Fund and manage final design of 14,000 cfs containment. This could be via floodwall, revisions to channel bank grading or a mixture of these solutions.
2. City of Reno – Fund and manage design of pedestrian path and landscape restoration, manage public outreach, issue bidding and construction documents, manage project construction.
3. TRFMA – Design review and construction funding.

The CTWCD board voted at the March meeting to approve funding an alternatives analysis by JUB. We received the draft report on May 10th that included conceptual designs for all three alternatives, as well as cost estimates. The CTWCD Board discussed the draft at the May meeting and had a few questions and comments. JUB addressed the comments and provided a revised report that was accepted at the June meeting. The report was then sent to City of Reno and TRFMA, and a review meeting was held on July 2nd. Both parties are happy with Alternatives A and B, but requested that Five Peaks review with USACE so we better understand permit requirements. On July 16th, we had a preliminary discussion with USACE. They consider Alternative B to be a substantial alteration to the federal flood project that could entail major permitting effort. After further discussion with CTWCD Board, City of Reno and TRFMA, we all agree that Alternative A (14,000cfs) is more suitable for everyone's needs as the

majority of this alternative would fall under maintenance activity. We are moving forward with requesting funding from TRFMA to support this project.

Design review committee meetings are ongoing for RTC's Sierra Street (2028) and Keystone Avenue (2030) bridge replacements. We received an application from RTC/Jacobs to support 408 permitting for the geotechnical borings for the Sierra Street Bridge. We had a pre-application meeting with USACE on April 15th and received a revised application on April 23rd. The CTWCD Board voted to approve the application the May meeting and the package was submitted to USACE on May 29, 2024. We received a Notice of Complete Submittal from USACE on July 17th and received permission on August 28th. A draft permit is out to RTC for review and is expected to be executed this week.

We received a draft application from RTC/Parametrix to support 408 permitting for the geotechnical borings for the Keystone Bridge. A pre-application meeting with USACE was held on August 27th. USACE indicated that a Drilling & Invasive Program Plan (DIPP) may be required in this location due to the dike included in the original federal project. USACE is reaching out to other teams to determine whether this will be needed. RTC received NEPA determination from NDOT/FHWA on September 9th. The application is now ready to be submitted with approval from the CTWCD Board.

USACE has issued their permission for the City of Reno's Booth Street Sewer Siphon project. The project proponent requested a meeting on April 16th to discuss the possibility of sleeving the existing pipe instead of boring a new pipe. We discussed implications with the permit. They are completing further due diligence and will follow up with a final decision. We have not yet issued the 408 permit.

Tri Sage accompanied USACE on a field inspection of the Truckee River during the week of June 13th. Federal projects are supposed to be completed every 5 years, but the last inspection of the Truckee River was in 2013. The inspection kicked off on Monday, June 13th at Idlewild Park continuing east to the East 2nd Street bridge. The inspection continued on Tuesday, June 14th at Glendale Bridge to John Champion Park to inspect east end of the CTWCD jurisdiction. A draft report was received via email on June 27th. Five Peaks has provided comments to USACE. We are also working on developing an action/follow up plan for the "unacceptable" ratings and maintenance items.

The river flow model work is completed and the inundation maps for the entire jurisdictional reach are now available. The new inundation maps have been a very helpful tool in all of the engineering work required to support the District. Five Peaks has recently shared the model with several project proponents including Parametrix (Verdi and Keystone bridge replacements) and NVENV (Trout Unlimited J-hook weir structures). We will continue to work with TRFMA on coordination of our HEC-RAS models. JUB recently received a version of the TRFMA model that was used to develop the FEMA Physical Map Revision (PMR). Preliminary review indicates that CTWCD's model is more conservative and TRFMA's model is more accurate because it is a full 2D model. We had an in depth discussion with JUB to review the pros and cons of merging the CTWCD and TRFMA models from

Mayberry Park to Glendale. This would be a substantial effort as the models have two different purposes.

The section that pertained to the USACE April 2013 Inspection report has been eliminated from this report; we expect that this section will be added in again to address maintenance items in the USACE June 2022 inspection report.