

Mainstem Martis Creek Restoration

**United States Bureau of Reclamation
Funding Opportunity Announcement No. BOR-DO-17-F013
WaterSMART Cooperative Watershed Management Program
Phase II Grants for Fiscal Year 2017**

February 15, 2017



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Documentation in Support of Applicant Eligibility

Please see attachments for the following documents:

- (1) Self-certification that group meets the definition of a “Watershed Group”
- (2) Articles of incorporation
- (3) Bylaws
- (4) Mission statement
- (5) Self-certification that group holds regular meetings
- (6) Watershed management and/or restoration plan

Technical Proposal and Evaluation Criteria

(1) Executive summary

Date: February 15, 2017

Applicant: Truckee River Watershed Council

City and State: Truckee, CA

County: Placer County

The portion of Martis Creek running through the Martis Wildlife Area is badly incised and actively eroding. The goal of the Mainstem Martis Creek Restoration project (Mainstem Martis project) is to improve ecological function by restoring conditions supporting a healthy creek channel, enhancing impaired meadow habitats and vegetation, and protecting functioning habitats. Through this grant, the Truckee River Watershed Council (TRWC) will remove levees to increase areas subject to overbank flow; complete minor bank grading to reduce streambank erosion and improve floodplain functions and habitat; introduce analog beaver dam to increase water surface elevations; and restore targeted plant communities. Activities include project management and stakeholder coordination, project implementation, monitoring, and outreach. Implementation will result in improved water quality and ecological resilience of rivers, streams, and riparian areas in support for the goals of this FOA.

Grant activities will be completed within two years of grant award, with work being conducted from September 2017 to August 2019.

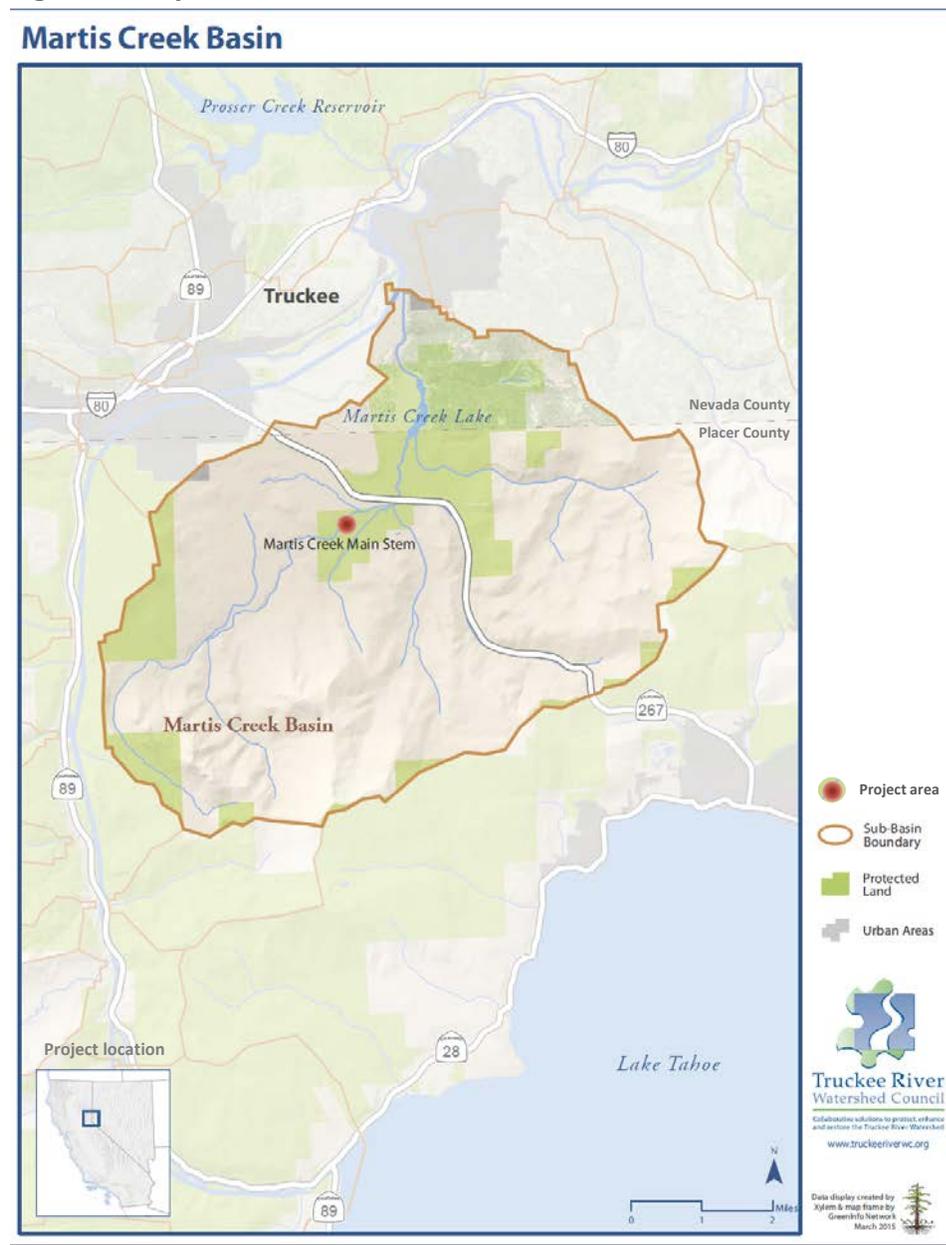
The project is located on Federal land owned and operated by the U.S. Army Corps of Engineers.

TRWC brings the community *Together For The Truckee* to protect, enhance, and restore the Truckee River watershed. We are a grassroots, non-profit organization incorporated as a 501(c)(3). For the past 22 years, we have focused on the water quality and biological resources of the Truckee River watershed. We identify, coordinate, fund and implement restoration projects directly related to the health, beauty, and economy of the watershed. Combining ecological principals and a deep understanding of our region's values, we focus on root causes of threats to the Truckee River watershed. We have a vision of completing 50 high priority restoration projects over the next 10 years. The Mainstem Martis Creek Restoration is included on the list of 50 projects.

(2) Background Data

Geographic location – The project is located east of the Sierra Nevada crest, in the Truckee River Basin, along the Mainstem Martis Creek, an important tributary to the Truckee River. Martis Creek flows south to north in Martis Valley in Placer County, approximately 5 miles southeast of Truckee, CA. The project is located on land owned and operated by the U.S. Army Corps of Engineers (USACE), immediately upstream of Martis Creek Lake Dam and Martis Creek Lake. USACE is the sole landowner of the project area and the primary project partner. See **Figure 1** for project area.

Figure 1. Project Area



Describe the watershed

- Water Supply – Martis Creek drains a 42.7 square mile watershed with elevations between 8,617 feet in the headwaters down to 5,680 feet at the confluence with the Truckee River. It is a snowmelt-dominated, perennial system; however, annual peak flows between drought years of 2012 and 2016 were the result of a rain-on-snow event, illustrating an important precipitation pattern (U.S. Bureau of Reclamation, 2016). Annual floods typically occur between March and June, coinciding with peak snowmelt runoff. Short-lived peak flows are also generated by summer thunderstorms or during winter months. Daily mean flows for Martis Creek range between 0.5 cfs to 120 cfs.
- Water Rights – Martis Creek Lake Dam, reservoir, and the project area have been under the ownership and management of the USACE since 1971. The primary goal of the dam is to provide flood control, with a secondary goal for storage for future water supply. The Truckee Donner Public Utility District (TDPUD) has both surface water and groundwater rights in the Martis Valley since 1950's with their main supply coming from groundwater. Water purveyors operating in the Martis Valley Groundwater Basin include TDPUD, Placer County Water Agency (PCWA, 1957) and Northstar Community Services District (NSCSD, 1990). In the fall of 2015, NSCSD acquired full ownership and operations of the Martis Valley Water System.

The Truckee River Operating Agreement (TROA) regulates the majority of surface water flows in the Truckee River and the controlled tributaries. TROA, effective since December 1, 2015, is designed to protect water rights while allowing water rights holders to engage in water credit transactions to meet demands. The Federal government is among the signatories to TROA.

- Current Water Use – Current water uses of the Truckee River system consist of uses such as municipal, industrial, snowmaking, irrigation, groundwater recharge, and environmental water. Water uses in Martis Valley are primarily recreation, flood control, and environment (fish and wildlife). The area contains the planned Martis Valley Trail as well as numerous user-created trails, and is very popular with local residents and visitors accessing the Truckee-North Tahoe region. This has led to severe degradation of the meadow system. Environment beneficial uses include wide-spread high-alpine meadows, wetlands, and riparian areas along with a variety of wildlife and aquatic species. Water uses are not projected to change.
- Water Issues Faced – The Truckee River region is threatened, like so many places on the planet where the beauty of nature draws people who revel in it. Species of fish have disappeared. Essential invertebrates are declining. Meadows are drying up. We can

trace much of this to 150 years of human impact—from mining, grazing, logging, rail and highway expansion, and historic development. The Truckee River is listed as impaired for excess sediment by the U.S. EPA with an approved TMDL from the California Lahontan Regional Water Quality Control Board (2008).

Pressures on the watershed continue through population growth and climate change. According to the Truckee River Basin Study (U.S. Bureau of Reclamation, 2016), climate change is likely to negatively impact the following:

- Water supply – Maintaining the historical balance between supply and demand may not be possible if the climate changes significantly, even with exceptional changes in human behavior.
- Floods and periods of drought – Precipitation patterns in the Truckee River Basin are historically characterized by extreme events. Climate change will likely increase the frequency and severity of floods and drought.
- Aquatic species – Changes in ambient temperatures and seasonal shifts in streamflow will alter the timing of breeding patterns.
- Native vegetation – Climate changes are expected to affect water demand of native vegetation that supports migratory birds using wetlands, lakes, as well as riparian and meadow areas.
- Bird migration – Changing plant growth patterns will be affected across the entire migratory flyway, and shifts in arrival at Martis Valley wetlands would not match available food supplies.

Mainstem Martis Creek is badly incised and actively eroding along the reach running through the Martis Wildlife Area in Martis Valley. Current and historical land-uses and disturbances resulted in cumulative impacts on Martis Creek and its adjacent montane meadow. This includes logging, ranching, roads, Martis Creek Lake Dam and operations, groundwater management, drought and climate change. The Martis Watershed Assessment, a comprehensive watershed assessment completed by TRWC in 2012, identified this reach as a priority area needing restoration.

The current condition is characterized as an incised channel with a disconnected floodplain, impaired water quality, and meadow conversion. Legacy ranching and logging activities influenced overland flow pathways, and transportation improvements impacted meadow habitat and confined segments of the channel along levees.

Historical aerial photographs and field observations provide evidence that Mainstem Martis Creek historically maintained many primary and secondary channels, typical of many undisturbed meadow systems found in the Sierra Nevada. Fine sediment deposited within this corridor can support wetland and meadow vegetation, particularly

sedges and rushes, with cohesive root networks. As these soils dry and vegetation is converted, these fine-grained soils become more susceptible to erosion and bank failure.

Mainstem Martis Creek shows impaired channel functions. In many reaches within the project area we see recent channel down-cutting or incision of more than 4 to 5 feet below the meadow surface. As a result, frequent floods are confined within a narrow active channel, disconnected from adjacent floodplains and meadow surfaces. Incised channels also appear to have lowered the adjacent groundwater table and vegetation communities in these areas appear to have converted to more dry upland species, with loss of wetland and meadow habitats. Furthermore, where tributaries and swales enter an incised Martis Creek, large headcuts have formed, threatening additional functioning meadow habitat. Lower reaches of Martis Creek have undergone straightening, bank hardening, and levee construction.

- Relationships with Reclamation – The U.S. Bureau of Reclamation manages water supply in the vicinity of the Mainstem Martis Project at Lake Tahoe, Prosser Reservoir, Stampede Reservoir, and Boca Reservoir. Additional notable Reclamation facilities within the Truckee River Basin include the, Marble Bluff Dam and the Newlands Project.

Reclamation has conducted a number of studies to evaluate the degree to which water supply and demand may be impacted by future changes in climate. This includes the Truckee River Basin Study (2016), a part of the Bureau of Reclamation’s WaterSMART Basin Studies Program. TRWC served on the Technical Advisory Group to provide guidance and feedback on the development and findings of the study.

Reclamation also funded researchers at the Desert Research Institute to develop an integrated groundwater, surface water, and climate change model of the Martis Valley. This resulted in the Martis Valley Integrated Watershed Groundwater Model, released in 2015.

These studies predict a future shift from snowfall to rain in the next century in this region as a result of projected increases in average, minimum, and maximum air temperatures. Associated changes in surface water hydrology include potential increases in the frequency and magnitude of major flooding, such that more water may leave the basin as runoff, rather than infiltrating and recharging groundwater resources. According to these studies, climate change may result in increased drought frequency, and generally reduced water supplies (U.S. Bureau of Reclamation, 2016).

(3) Project description

The goal of the Mainstem Martis project is to improve ecological function by restoring conditions supporting a healthy creek channel, enhancing impaired meadow habitats and vegetation, and protecting functioning habitats. Project implementation will improve water quality and the ecological resilience of rivers, streams, and riparian areas.

The goal of this project will be achieved through the following objectives:

1. Remove or modify historical features or watershed disturbances that have altered natural streamflow patterns (e.g., levees, irrigation ditches and diversion structures);
2. Increase frequency of overbank flows in previously abandoned wet meadow surfaces and swales using geomorphically-appropriate in-channel features (e.g., instream wood, analog beaver dams) to elevate water surfaces;
3. Re-establish functioning floodplains and meadow habitats using minor grading for inset floodplain creation with proper biotechnical methodologies (only in areas that are incised from the wet meadow surface more than 3 feet);
4. Enhance aquatic and meadow habitat by encouraging beaver activities and revegetation efforts; and
5. Protect functioning channel, wet meadow, and associated habitats.

When the project is completed, we anticipate substantial gains:

- Gain approximately 1.6 acres of floodplain;
- Remove 600 feet of levee structures;
- Improve associated riparian, meadow and aquatic habitat;
- Eliminate approximately 75% of the sedimentation along this reach of Martis Creek;
- Improve water quality;
- Make stream and meadow more resilient to intensive recreational use and climate change;
- Increase public support for restoration.

See **Figure 2** for Conceptual Design of the Mainstem Martis project. The final design will be complete in March 2017.

Implementation Plan

Task 1. Project Management and Stakeholder Coordination

This task includes managing all aspects of the project for successful completion including preparing subcontracts, managing subcontractors, overseeing construction, and stakeholder coordination. TRWC will prepare and submit all financial reports, interim performance reports, 270-day sufficiency report, and the final performance report.

We will work closely with our project partner, USACE, to implement this project. We will also coordinate with other stakeholders such as adjacent property owners and recreational users of the Martis Wildlife Area.

Deliverables: Semi-annual financial reports, semi-annual interim performance reports, 270-day sufficiency report, and the final performance report.

Timeline: September 2017 – August 2019

Task 2. Project Implementation

Implementation will include removal of levees to increase areas subject to overbank flow; minor bank grading to reduce streambank erosion and improve floodplain functions and habitat; introduction of analog beaver dam to increase water surface elevations; and restoration of targeted plant communities.

Project performance will be visually assessed and photo-documented.

Deliverables: Photographic construction record of pre and post-construction.

Timeline: September 2018 – October 2018

Task 3. Monitoring

We will conduct post-project monitoring to verify the success of the project. Monitoring activities will mirror pre-project activities completed during a previous phase of the project, and will include surface water monitoring, sediment reduction monitoring, and photo-documentation. We will compare post-project findings to the pre-project monitoring results to determine progress and effectiveness of project implementation.

Deliverables: Post-project monitoring reports

Timeline: October 2018 – August 2019

Task 4. Outreach

The trails within the project site are very popular with the public for dog walking, hiking, and trail running, and it is a much beloved part of our community. In order to inform the public, and

increase support, outreach will include interpretive signage, publishing articles in our on-line and print newsletters, and a public meeting. We will also coordinate volunteer restoration opportunities on our annual Truckee River Day.

Deliverables: Copies of materials produced

Timeline: September 2017 – August 2019

(4) Evaluation criteria

Evaluation Criterion A: Watershed Restoration Planning

The proposed grant activities conform to and meet the goals of both State and local water plans:

Water Quality Control Plan Amendment Total Maximum Daily Load (TMDL) for Sediment Middle Truckee River Watershed (Lahontan Regional Water Quality Control Board, 2008) –

The Truckee River is at or above its limit to assimilate sediment and still protect aquatic life beneficial uses (LRWQCB 2008). Excess sediment is the primary water quality problem in the Middle Truckee watershed. Factors contributing to excessive sediment delivery to the Truckee River include legacy land use impacts and more recent development in naturally erosion-sensitive areas. Beneficial Uses of the Truckee River impacted by excess sediment include: Cold Freshwater Habitat (COLD), Wildlife Habitat (WILD), Rare and Endangered Species Habitat (RARE), Migration of Aquatic Organisms (MIGR), and Spawning, Reproduction, and Development (SPWN). The TMDL is a plan to attain sediment-related water quality objectives, especially narrative objectives to protect in-stream aquatic life beneficial uses, such as COLD and SPWN. Documents include the Adopted Basin Plan Amendment (http://www.waterboards.ca.gov/lahontan/water_issues/programs/tmdl/truckee/docs/adopted_basinplan_amendment.pdf) and the Staff Report (http://www.waterboards.ca.gov/lahontan/water_issues/programs/tmdl/truckee/docs/adopted_staffreport.pdf).

The TDML indicates four main implementation indicators.

- Road Sand Application BMPs and Recover Tracking
- Ski Area BMP Implementation
- Dirt Road Improving or Decommissioning
- Legacy Sites Restoration and BMP Implementation.

Since the TMDL was adopted in 2008, TRWC and other agencies have implemented numerous sediment reduction projects to meet TMDL load reductions. Project examples related to the Truckee River TMDL implementation indicators include Middle Martis Creek Wetland

Restoration (TRWC, 2016), First Four Mile Restoration (Placer County, 2016), and Perazzo Meadows Restoration (U.S. Forest Service, 2010). While we have made significant progress, there is still much work to be done. For example, it is our goal to complete 50 large-scale restoration projects over the next 10 years.

The Mainstem Martis project will complete Legacy Sites Restoration and BMP Implementation in order to eliminate approximately 75% of the sedimentation along this reach of Martis Creek in support of the TMDL. Positively impacted Beneficial Uses include: Cold Freshwater Habitat (COLD), Wildlife Habitat (WILD), Rare and Endangered Species Habitat (RARE), Migration of Aquatic Organisms (MIGR), and Spawning, Reproduction, and Development (SPWN).

Coordinated Watershed Management Strategy for the Middle Truckee River Watershed (TRWC, 2004)

http://www.truckeeriverwc.org/images/documents/Coordinated_Watershed_Management_Strategy.pdf) – The Coordinated Watershed Management Strategy for the Middle Truckee River provides a strategic approach for reducing potentially harmful nonpoint source sedimentation and appropriately restoring riparian, aquatic and wetland habitat in the Middle Truckee watershed. The document is based on the mission statement and organizational objectives of the Truckee River Watershed Council and is the product of an 18-month analytical process to address water quality issues in the Middle Truckee watershed. It was developed through a collaborative process involving a broad range of stakeholders in the watershed, including businesses, industry, property owners, recreationists, conservationists and local, state and federal resource management agencies.

TRWC's Projects & Assessments Committee reviews and potentially updates the Coordinated Watershed Management Strategy and Project List every two years as part of our regular organizational planning process. Stakeholders participating in updates include state and federal agencies (e.g. U.S. Forest Service, U.S. Army Corps, CA State Parks), non-profits (e.g., Truckee Donner Land Trust, Trout Unlimited), private landowners (Vail/Northstar California, Tahoe Donner Association), Town of Truckee, counties (Placer, Nevada, Sierra), and interested citizens. TRWC has over 40 formal stakeholders who have signed a Memorandum of Understanding stating agreement and common purpose in watershed protection. See attached documentation or <http://www.truckeeriverwc.org/about/about-trwc> for a full list.

The Mainstem Martis project proposed here is included on the CWMS project list. Furthermore, it has been identified has a top priority to implement within the next few years.

TRWC follows a conceptual model for large scale restoration projects. The steps are:

- Assessment
- Feasibility Study/Concept Design

- Pre-Project Monitoring
- Final Design
- Environmental Compliance
- Implementation
- Post-Project Monitoring
- Adaptive Management

We place an emphasis on process-based restoration – by understanding the underlying hydrologic, geomorphic, and biological conditions, restoration projects are designed to complement existing processes and success is much more likely. The Mainstem Martis project is designed to restore the natural hydrologic function that has been disrupted through historic stream channel manipulation. Following the model has allowed us to fully understand the watershed processes that have been impacted through anthropogenic actions. The following describes the Assessment and Feasibility steps of the Mainstem Martis project. Pre-project monitoring, project design, and environmental compliance are currently underway and will be complete before the start of this funding cycle. The current funding proposal is to complete implementation, post-project monitoring and adaptive management.

Martis Watershed Assessment (MWA) (TRWC, 2012)

([http://www.truckeeriverwc.org/images/documents/Martis Watershed Assessment Final 04 1012 compressed.pdf](http://www.truckeeriverwc.org/images/documents/Martis_Watershed_Assessment_Final_04_1012_compressed.pdf)) – Martis Valley is one of the largest sub-basins in the Truckee River watershed and is essential to the ecological health of our area. In 2012, TRWC completed a watershed assessment of the Martis Creek watershed to prioritize restoration activities. The assessment included an analysis of natural processes, identified where those processes have been disrupted and listed restoration opportunities. Despite existing and planned development, the MWA identified and prioritized 20 restoration projects that will result in meaningful gains in water quality, wildlife habitat, and watershed function. Similar to our other planning efforts, participants represented a diverse range of stakeholders including the U.S. Army Corps, U.S. Forest Service, California Department of Transportation, Northstar Community Service District, Sierra Pacific Industries, Liberty Utilities, Placer County, Town of Truckee, Truckee Donner Public Utilities District, Truckee Tahoe Airport District, Washoe Tribe, Truckee Donner Land Trust, Vail/Northstar California, DMB Highlands/Martis Camp/Lahontan Homeowners Association and Golf Club, and interested citizens.

Based on MWA findings, we implemented the Middle Martis Creek Wetland Restoration and the Elizabethtown Restoration in 2016. The Mainstem Martis project proposed here is the next highest priority for the following reasons:

- 1. Potential for substantial restoration gains.** The stream reach through the Martis Wildlife Area is identified as one of the longest degraded reaches in the MWA.

Approximately 1.6 acres of wetland and associated riparian and meadow habitat will be addressed by this restoration project.

2. Estimated sediment reduction is high. The MWA and feasibility studies estimate that approximately 75% of the erosion along this reach of Martis Creek could be eliminated through restoration.

3. Need for improved stream and meadow resiliency. The root causes of the stream and meadow degradation include historic grazing and logging, flood and drought, and base-level changes as a result of the reservoir. The degradation is exacerbated by current day intensive recreational use. In its current degraded condition, Martis Creek is not able to withstand this pressure. Numerous stop gap measures have been taken to limit the extent of the erosion and meadow loss, but addressing the root causes will provide needed resiliency.

4. Restoration is feasible. Through the MWA, no obvious constraints to restoration work were identified. The feasibility studies confirmed that restoration can rejuvenate hydrologic and geomorphic processes, and enhance aquatic and meadow habitats.

5. Active and engaged project partner. The project is located on USACE property and they are a formal project partner. The creek restoration is included in their Master Plan for the Martis Wildlife Area (see below), and they are working closely with us to design and implement the project.

Mainstem Martis Creek Conceptual Design and Feasibility Study (TRWC, 2016)

([http://www.truckeeriverwc.org/images/documents/215063 Design Basis and Feasibility Report FINAL 8-19-16.pdf](http://www.truckeeriverwc.org/images/documents/215063_Design_Basis_and_Feasibility_Report_FINAL_8-19-16.pdf)) – The MWA identified the reach of the Mainstem Martis Creek running through the Martis Wildlife Area as needing restoration. However, the exact causes of degradation were unknown. Hydrologic, hydraulic, geomorphic, and engineering feasibility studies confirmed that restoration can rejuvenate hydrologic and geomorphic processes, and enhance aquatic and meadow habitats.

Stakeholders reviewed results and provided input for the final report. Stakeholders included the USACE as the sole landowner of the project area, Northstar Community Service District, Vail/Northstar California, Truckee Tahoe Airport District, Liberty Utilities, California Department of Transportation, Truckee Donner Land Trust, and Lahontan Homeowners Association and Golf Club. Based upon the feasibility findings, stakeholders identified the preferred alternative to maximize floodplain function and habitat.

Mainstem Martis Creek Final Design (TRWC 2017)

The final design will be complete in March 2017 and will include access, stockpile, and staging locations; grading quantity estimates; revegetation plan; erosion prevention plan; and materials, equipment, and detailed cost estimates. The final design will include estimates of sediment reduction and wetland gains.

USACE Master Plan and Update for Martis Creek Lake Dam (USACE, 2014)

http://www.spk.usace.army.mil/Portals/12/documents/parks_lakes/Martis/Master%20Plan%20Update/Martis_Creek_Draft_Master_Plan_Nov2014.pdf) – Martis Creek Lake Dam, reservoir, and the project area are under the ownership and management of the USACE. The USACE developed a Master Plan for Martis Creek Lake Dam and adjacent lands, as required for civil works projects. The Master Plan is the basic guidance document outlining the responsibilities of Corps pursuant to Federal laws to preserve, conserve, restore, maintain, manage, and develop the project lands and associated resources.

According to the Plan, the project area is primarily allocated to low-impact, non-motorized recreation and open space and protects a diversity of habitat types including upland game birds. USACE characterizes this unit as “greatly impacted and includes abandoned borrow pits and historic roads used for construction of the dam”. Resource objectives include recreation, natural and cultural resources management, and visitor information and education.

The Master Plan specifically calls out an objective to continue creek restoration projects in accordance with 40 CFR 230 404(b)(1) Guidelines and in coordination with the Truckee River Watershed Council (USACE, 2014). The USACE are working closely with us to design and implement the Mainstem Martis Creek Restoration.

Evaluation Criterion B: Project Benefits

Under current conditions, complex, cumulative effects are occurring from legacy logging, road building, ranching, reservoir base-level changes, groundwater withdrawals, drought and climate change. Based on the cumulative planning efforts and scientific-based assessments and feasibility studies, **Table 1** summarizes the links between existing conditions, impairments and restoration objectives for Martis Creek. This helps us to understand the processes that are impaired and find solutions to restoring or ameliorating those impairments to support habitat.

Table 1: Summary Linking Existing Conditions, Impairments, and Restoration Objectives in Mainstem Martis Creek.

	Existing Condition	Effect(s) on Channel Form, Water Quality or Habitat	Source(s) of Degradation	Restoration Objective(s)
Groundwater	Declining water table	Channel incision, meadow conversion, erosion, loss of water quality	Groundwater management, drought, channel incision	Increase frequency of overbank flows, increase water surface elevation, re-establish floodplain functions
Beaver	Active colony in some reaches	Positive, natural restoration	-	Protect and work with existing population
Instream Wood	Limited recruitment and transport	Less wood for habitat, opportunity for enhancement	-	Increase instream wood, use strategically to enhance overbank flow
Channel Geometry	Mostly incised	Disconnected floodplains, bank erosion, loss of water quality, meadow conversion	Logging, ranching, groundwater management, roads, Martis Lake Dam operations	Remove historical features or watershed disturbances, elevate water surfaces and encourage aggradation of channel; re-establish floodplain functions
Vegetation	Conversion from hydric species to upland species; homogenous community	Loss of habitat, increased erosion, loss of water quality	Channel incision, groundwater management, drought, non-natives	Enhance habitat by restoring channel functions and revegetation with natives

The Mainstem Martis project is designed to:

- Improve channel and floodplain connectivity;
- Increase the frequency of dispersed flow across currently infrequently occupied high-flow swales and secondary channels;
- Reduce streambank sediment sources;
- Restore natural flow pathways by removing relic, abandoned irrigation ditches;
- Arrest headcutting or knickpoint erosion in the tributary swales/channels;
- Work with existing wildlife to increase surface water and groundwater elevations; and
- Use natural materials to improve function.

When the project is completed, we anticipate substantial gains:

- Gain approximately 1.6 acres of floodplain;

- Remove 600 feet of levee structures;
- Improve associated riparian, meadow and aquatic habitat;
- Eliminate approximately 75% of the sedimentation along this reach of Martis Creek;
- Improve water quality;
- Make stream and meadow more resilient to intensive recreational use and climate change;
- Increase public support for restoration.

A functioning meadow provides flood attenuation benefits. As seasonal flood flows access the floodplain through overbank flow, they are able to slow down, spread out, infiltrate into the meadow surface and then slowly meter back to the stream channel. In an incised channel, flood flows will move quickly through the system without providing any benefit to the meadow habitat, and can result in downstream flooding. These rapid flows contribute to in-channel erosion as well.

Incision leads to further incision and channel widening (Schumm, 1999). After initial incision, widening ensues leading to aggradation and eventually a new equilibrated state. However, reaching equilibrium may take decades, or may not be feasible depending on the sediment supply in the system (Leopold, et al., 1964). Initial incision appears to have stopped in the Mainstem Martis channel, however erosion continues and the channel is likely still widening.

The Mainstem Martis project is designed to restore the natural physical processes as opposed to merely treating a symptom of degradation. By addressing the root cause of the incision (removing the stream channel manipulation) we greatly increase project success – after initial intervention, the meadow ecosystem will complete the recovery naturally without further intervention from humans.

- Water availability – Past restoration projects in the Northern Sierra, including projects completed by TRWC in Perazzo Meadows and Merrill Davies, have shown that 30% water loss can be eliminated within 1-2 years of restoration (National Fish and Wildlife Foundation, Sierra Meadow Restoration Business Plan, 2010). According to Reclamation’s Truckee River Basin Study, climate change will substantially impact water supply in the watershed, from either drought or loss of runoff during flooding. Proposed restoration of floodplain connectivity will reduce occurrence and magnitude of flood flows entering Martis Creek Lake, and may extend the time period when Martis Creek Lake reaches its storage capacity during high-flows under its current operating plan.
- Water quality – The Truckee River watershed is listed as impaired for excess sediment by the EPA, Martis Creek is on the Lahontan Regional Water Quality Control Board ‘Watch List’ for excess nutrients, and Martis Creek Lake has the potential for algae blooms during dry

years. It is widely recognized that wetlands improve water quality by sequestering or detoxifying nutrients and that that riparian and wetland ecosystems act as buffers by reducing nutrient and sediment concentrations of overland and subsurface waters (Vellidis et al. 2003, Merrill 2001, Merrill and Benning 2006, Stubblefield et al. 2006, Klein et al. 2005, Naiman et al. 2005). Proposed restoration of floodplain connectivity provides opportunities to infiltrate runoff, slow nutrient laden runoff, and encourage sediment/nutrient deposition and nutrient uptake by riparian/meadow/wetland vegetation. This will result in improved water quality, eliminating approximately 75% of the sedimentation along this reach of Martis Creek.

- Aquatic or riparian ecosystems – The incised channel in the project area led to the conversion of wetland to dry meadow. Encouraging overbank flows and shallower groundwater conditions in adjacent dry meadow areas will reverse meadow conversion and restore dry meadow to a riparian low-gradient meadow type. Proposed restoration elements include removal of levees, regrading and revegetation. Removal or modification of these constructed features will permit overbank flows to inundate former wetland/riparian habitat. Beaver dam analogs are also proposed to work with existing beaver populations and help elevate water surfaces to promote overbank flows to augment or restore meadow and wetland habitats. This will result in approximately 1.6 acres of restored floodplain and a 75% reduction of sedimentation along this reach of Martis Creek.
- Benefit to specific species and habitats – Numerous bird species depend on meadows for breeding, and during the post-breeding periods, there are few species in the Sierra that do not utilize meadows for molting grounds and foraging before migration. The willow flycatcher is listed as endangered by the State of California, and the yellow warbler is considered a species of special concern. Both are riparian habitat-dependent species that are expected to benefit from the project due to improvements to associated riparian habitat. According to the Conservation Assessment of the Willow Flycatcher in the Sierra Nevada (Green et al. 2003), restoring degraded meadows and changing meadow hydrology so that meadows remain “wet” throughout the breeding cycle are two of four Recommended Management objectives.

Fish are present in the project reach, and will likely benefit from improvements to aquatic habitat. Additionally, Martis Creek has been identified by U.S. Fish and Wildlife (LCT Action Plan, 2003) as potential habitat for the reintroduction of the endangered Lahontan Cutthroat Trout. Meadow restoration has been shown to decrease water temperature anywhere from 2-5°C, thus improving survival of LCT populations.

- Benefit to multiple water uses – As discussed above, the Mainstem Martis project will improve groundwater recharge, thus benefitting municipal water users with water rights to Martis Valley. The restoration will also result in a greatly improved recreational experience, as well as provide educational opportunities for the public in an area that is prized as a local resource and area of outstanding beauty.
- Resiliency to drought and climate change – With projected earlier spring runoff and reductions in snowpack, along with increased frequency and magnitude of flooding events, proposed land management and watershed restoration strategies that improve groundwater recharge, attenuate flood flows, increase wetland vegetation, improve late season base flows should be prioritized. The Mainstem Martis project is designed to provide these climate change adaptation benefits.

Additionally, TRWC is actively involved in measuring quantitative greenhouse gas reductions from meadow restoration through participation in a Sierra Nevada-wide study of effects of restoration on soil carbon and nitrogen gas emissions (Sierra Meadows Restoration Research Partnership; SMRRP). Preliminary data indicate that soils in Sierra Meadows may store significant amounts of carbon (Merrill, 2016). We will apply what we learn from our other meadow restoration projects to predicting the direct benefits that may be achieved through restoration in the Martis watershed.

Evaluation Criterion C: Stakeholder Support

TRWC is a stakeholder-driven watershed council and as such, outreach to the regional community on all projects is vital to its success. We have over 40 formal stakeholders who have signed a Memorandum of Understanding stating agreement and common purpose in watershed protection and restoration. This includes state and federal agencies (e.g. U.S. Forest Service, CA Department of Fish and Wildlife), non-profits (e.g., Truckee Donner Land Trust, Trout Unlimited), private landowners (Vail/Northstar California, Tahoe Donner Association), Town of Truckee, counties (Placer, Nevada, Sierra), and interested citizens. See attached documentation or <http://www.truckeeriverwc.org/about/about-trwc> for a full list.

As a group, the stakeholders identify a potential project. Sometimes the Watershed Council will take the lead in implementing restoration and protection projects, or sometimes a stakeholder will execute the project. The Mainstem Martis project is included on the list of priority projects in the watershed. Furthermore, it has been identified as a top priority to implement within the next few years.

The project is located on USACE land, and they are the primary project partner. The Mainstem Martis restoration is included in their Master Plan for the Martis Wildlife Area, and they are

working closely with us to design and implement the project. We have worked together successfully on numerous projects, and as a result of the increasing recognition of Martis Valley's priority status, we have increased collaboration in the past several years. Please see Evaluation Criterion A: Watershed Restoration Planning for further details on consistency with USACE policies and plans. Please also see the attached letter of support.

We are well acquainted with the diverse range of stakeholders in Martis Valley through the MWA, and have worked cooperatively with several to implement projects. For example, in 2016 we completed the Middle Martis Wetland Restoration and Elizabethtown Restoration in collaboration with several stakeholders, including USACE. We will continue to coordinate with other stakeholders such as adjacent property owners and recreational users of the Martis Wildlife Area. In particular, the Northstar Community Services District and Vail/Northstar California have been highly engaged in the assessment, feasibility, and design stages of the Mainstem Martis Project, and fully support implementation in support of their organizational policies. Please see the attached letters of support.

The Martis Fund commits to \$175,000 in cost-sharing funds for the Mainstem Martis Creek Restoration project. Their mission is to conserve open space, manage and restore habitat and forest lands, and support workforce housing and related community purposes in the Martis Valley and greater Placer County region. They connect non-profit organizations to financial resources to complete projects serving our mission. They have been a consistent supporter of TRWC and our projects in Martis Valley.

Because this is such a beloved area to the community, outreach will be an important component of the project. Implementation will be partially completed on Truckee River Day, further enrolling the community in the project.

There is no known opposition to the project.

Evaluation Criterion D: Project Implementation

The Mainstem Martis project is based on 1) data collected during the Martis Watershed Assessment and 2) subsequent feasibility and conceptual design work. The design is also influenced by previous restoration projects implemented by TRWC and partners over the past 22 years. This includes the Middle Martis Wetland Restoration in 2016 with USACE, Caltrans, and others; Coldstream Canyon Floodplain Restoration in 2012 with California State Parks; and the Perazzo Meadows Restoration in 2009 with the U.S. Forest Service.

Implementation Plan

Please see Section (3) Project Description for further discussion on the project goal and objectives, as well as key activities and milestones.

Task 1. Project Management and Stakeholder Coordination

- 1.1 Convene USACE, adjacent property owners, recreational users, and other stakeholders to discuss common goals, provide input and gain acceptance of projects.
- 1.2 Develop RFP for subcontractors.
- 1.3 Contract subcontractor.
- 1.4 Manage subcontractors, oversee construction.
- 1.5 Prepare semi-annual financial reports and interim performance reports, 270-day sufficiency report, and the final performance report. Performance reports and sufficiency report will include project milestones obtained, general update on project status, and progress against project budget.
- 1.6 Submit project deliverables to grant manager. Submit deliverables as required by the Schedule of Deliverables.

Deliverables: Semi-annual financial reports, semi-annual interim performance reports, 270-day sufficiency report, and the final performance report.

Timeline: September 2017 – August 2019

Task 2. Project Implementation

- 2.1 Complete pre-construction staking and BMP installation.
- 2.2 Complete restoration work.
- 2.3 Prepare photographic construction record.
- 2.4 Complete any corrective actions as determined by post-project monitoring.

Deliverables: Photographic construction record of pre and post-construction.

Timeline: September 2018 – October 2018

Task 3. Monitoring

- 3.1 Complete surface water monitoring, sediment reduction monitoring, and photo-documentation.
- 3.2 Prepare monitoring reports. Annual monitoring reports will include comparison of pre-project conditions and post-project results. The final monitoring report will include all data and a discussion of project effectiveness.

Deliverables: Annual and final monitoring reports

Timeline: October 2018 – August 2019

Task 4. Outreach

- 4.1 Present the project at one Projects and Assessments Committee meeting. Presentation will include discussion of project rationale, water quality benefits, design, and implementation techniques.
- 4.2 Produce permanent interpretive signage.
- 4.3 Feature in one issue of the Truckee River Watershed Council semi-annual newsletter.
- 4.4 Conduct two community work days on Truckee River Day.

Deliverables: Copies of materials produced

Timeline: September 2017 – August 2019

Detailed project budget

TRWC requests \$99,998.44 over two years. Funding will provide for project construction and supervision, post-project monitoring, outreach and staff time. Grant funded activities go from September 2017 to August 2019. Please see the full project budget, including funding plan and letters of commitment, budget proposal, and budget narrative for more details.

December 2016, the Martis Fund committed \$175,000 to complete design and environmental compliance for projects in the Martis Wildlife Area in support of the Mainstem Martis project. Please see the attached letter of commitment and contract.

Environmental Compliance, Permits, and Agency Approval – All permits and agency approvals will be complete prior to the start of the funding cycle. Permits and environmental documents required for the project are U.S. Army Corps Nationwide 27 Authorization, 401 Water Quality Certification, National Pollutant Discharge Elimination (NPDES) General Construction Permit, National Environmental Protection Act (NEPA), and California Environmental Quality Act (CEQA) compliance. Because a federal applicant will complete the work on federal land, a county grading permit and California Department of Fish and Wildlife Streambed Alteration Agreements and are not required.

USACE, project partner and sole land owner of the project area, will be the lead Federal agency for NEPA compliance. They will be responsible for evaluating technical information and ensuring that natural resources, cultural, and socioeconomic concerns are appropriately addressed. As the lead agency, USACE is solely responsible for determining the appropriate level of NEPA compliance. Therefore Reclamation will not need to be the lead Federal agency.

Engineering or Design Work – TRWC has successfully followed the model of assessment, feasibility, pre-project monitoring, design, implementation, and post- project monitoring for several major restoration projects. We employ the same model for the Mainstem Martis project. Please see Evaluation Criterion A: Watershed Restoration Planning for further detail on

the Martis Watershed Assessment, Mainstem Martis Creek Conceptual Design and Feasibility Study, and the final restoration design to be completed in March 2017. The final design will include access, stockpile, and staging locations; grading quantity estimates; revegetation plan; erosion prevention plan; and materials, equipment, and cost estimates. Final design will also include estimates of sediment reduction and wetland gains.

Access to land or water source – The project is located on USACE land, and they are the primary project partner. USACE will grant access to the site through a special use permit and real estate license. Please see the attached letter of support from the USACE.

Evaluation Criterion E: Performance Measures

Our Performance Measures are:

- Gain approximately 1.6 acres of floodplain;
- Remove 600 feet of levee structures;
- Eliminate approximately 75% of the sedimentation along this reach of Martis Creek;

These Performance Measures were chosen because they are accessible and accurate means of verifying the project goal to improve ecological function by restoring conditions supporting a healthy creek channel, enhancing impaired meadow habitats and vegetation, and protecting functioning habitats.

Pre-project monitoring, currently underway and completed through other funding sources, will establish baseline conditions for the Mainstem Martis project during WY2017. Post-project monitoring, to be completed through this funding request, will mirror pre-project monitoring activities, and will include:

- Surface water monitoring – On-going water quality monitoring activities by Placer County will provide both a baseline and a post-project tool for evaluating reductions of excess sediment and nutrients;
- Sediment reduction monitoring – We will complete a stream walk to map fresh sediment deposits on floodplains and measure rough depths to estimate post-project sediment storage volume; and
- Photo-documentation – We will photograph channel environment and riparian and meadow vegetation from established photopoints to illustrate changes in vegetation, floodplain processes, sedimentation, and habitat.

We will compare post-project monitoring results to the pre-project baseline to monitor the progress and effectiveness of project implementation. Annual monitoring reports will include comparison of pre-project conditions and post-project results. The final monitoring report will include all data and a discussion of project effectiveness.

Evaluation Criterion F: Nexus to Reclamation

As discussed previously, the U.S. Bureau of Reclamation manages water supply in the Truckee River Basin, and conducted a significant climate change study for the basin. Martis Creek is an important tributary to the Truckee River with Reclamation facilities both upstream and downstream from the confluence of Martis Creek and the Truckee River. Notable Reclamation facilities within the Truckee River Basin include the Lake Tahoe Dam, Prosser Creek Dam, Boca Dam, Stampede Dam, Marble Bluff Dam, as well as Reclamation's Newlands Project.

The project does not help Reclamation meet trust responsibilities to any tribe. The project does support implementation of the Truckee River Operating Agreement (TROA), a cooperative agreement involving Reclamation. Please see Section (2) Background Data for further information on the relationships with Reclamation and TROA.

Performance Measures

Our Performance Measures are:

- Gain approximately 1.6 acres of floodplain;
- Remove 600 feet of levee structures;
- Eliminate approximately 75% of the sedimentation along this reach of Martis Creek;

Please see Evaluation Criterion E: Performance Measures for more details on Performance Measures and the plan to monitor the progress and effectiveness of the project once complete.

Environmental and Cultural Resources Compliance

Impact to surrounding environment – Implementation activities will temporarily impact wildlife habitat and the surrounding environment through land disturbance and water diversions. The project provides ample opportunity to mitigate for these impacts through restoration, re-establishment, and functional lift of impacted wetland areas.

We will use Best Management Practices to minimize impacts during construction. Temporary access will use existing access roads as much as possible and meadow access will require low-impact methods with revegetation strategies applied upon equipment removal. As part of this strategy, grading in wetland areas will occur during the optimum driest part of the season, allowing enough time for re-establishment of vegetation during the growing season. Creek diversion will include fish removal, sediment control, hazardous material control, cofferdams, flow bypass, dewatering, cleanup and removal of dewatering facilities. All activities will comply with Stormwater Pollution Prevention Plan and applicable permit conditions.

Federal threatened or endangered species – Willow flycatcher and yellow warbler are present in the project area. The willow flycatcher is listed as endangered by the State of California, and the yellow warbler is considered a species of special concern. Permit conditions are likely to be applied for, example, nesting bird surveys. All activities will comply with applicable permit conditions. Both are riparian habitat-dependent species that are expected to benefit from the project due to improvements to associated riparian habitat. Please see Evaluation Criterion B: Project Benefits for more details.

Waters of the United States – There are wetlands and other surface waters inside the project boundaries that qualify as Waters of the United States. Temporary impacts include access routes, minor grading and construction. Long term results include increased and enhanced wetland, meadow connectivity, and associated riparian, meadow and aquatic habitat.

Water delivery system construction – Restoration will improve ecological function of the system and water quality without negative impacts to the water delivery system. The primary water purveyor in the Martis Valley, the Northstar Community Services District, supports this project and has participated in design review to date. In the project area, the Martis Creek has been altered for logging, grazing, and road construction since the early 1900s. More recently and significantly, the creek was straightened, banks hardened, and levees constructed in the 1950s and 1960s during the construction of highway 267. The construction of Martis Dam completed in 1972 inundated much of the riparian meadow system.

Historic features, archeological and sacred sites – Archeological review has been completed, and several prehistoric (Native American) areas and remnant historic features are in the vicinity of the project. Restoration activities specifically avoid prehistoric areas, and will not limit access to and ceremonial use of Indian sacred sites or other impacts on tribal lands. There are no buildings, structures, or features listed or eligible for listing on the National Register of Historic Places. However, restoration objectives explicitly call for modification of historic levees to improve ecological functions. USACE and the Washoe Tribe will provide archeological monitoring and consultation during construction.

Low income or minority populations – The project will not have a disproportionately high and adverse effect on low income or minority populations. The Truckee River Watershed Council explicitly supports Environmental Justice as part of our mission and program implementation policies.

Noxious weeds and non-native invasive species – The project will not contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species in the area. The USACE manages for both aquatic and terrestrial invasive weeds in the Martis Wildlife Area. Additionally, Martis Valley is monitored by TRWC's Weed Warriors program,

which is designed to prevent and manage invasive weeds in our watershed. Through these efforts, we identified and are managing small populations of terrestrial non-native invasive species in the area. There are no known infestations of aquatic non-native invasive species. All activities will comply with applicable permit conditions.

Please see Evaluation Criterion D: Project Implementation for further details on required permits and approvals, including Nationwide 27 Authorization, 401 Water Quality Certification, NPDES General Construction Permit, NEPA, and CEQA compliance.

Letters of Project Support

Please see the attached letters of support from the following:

- U.S. Army Corps of Engineers
- Northstar Community Service District
- Vail/Northstar California

Required Permits or Approvals

All permits and agency approvals will be complete prior to the start of the funding cycle. Permits and environmental documents required for the project are Nationwide 27 Authorization, 401 Water Quality Certification, NPDES General Construction Permit, NEPA, and CEQA compliance. Please see Evaluation Criterion D: Project Implementation for further details on required permits and approvals.

Official Resolution

Please see the attached Resolution from the TRWC Board of Directors.

Project Budget

Funding Plan and Letters of Commitment

Cost Share Requirement and Funding Partners – We will meet the cost-share requirements through a monetary grant of \$175,000 from the Martis Fund to complete design and environmental compliance for projects in the Martis Wildlife Area in support of the Mainstem Martis project. Funding is secured and currently available. Please see the attached letter of commitment and contract. We will not contribute any funds from sources such as a reserve account, tax revenues and/or assessments. Please see **Table 2** for a summary of Non-Federal and Federal Funding.

Costs Incurred Before Project Start Date – Costs incurred prior to the project start date that are included as project costs include \$175,000 to complete design and environmental compliance for projects in the Martis Wildlife Area. Expenditures include project management and stakeholder coordination, design, environmental compliance, pre-project monitoring, and community outreach. Specifically, this will result in partnership agreements, final project design, pre-project monitoring, NEPA/CEQA filing, and environmental permit filing. These will be cash expenditures, and not in-kind services or donations, between January 2017 and December 2017. This results in complete project planning. The benefit is having projects that are “shovel-ready” and eligible for funding for implementation and post-project monitoring.

Other Federal Funds – TRWC has not requested or received other federal funding for this project.

Pending Funding Requests – We do not have any pending funding requests. However, if funding from Reclamation is denied, we will seek additional funds to complete the project.

Table 2 – Summary of Non-Federal and Federal Funding

FUNDING SOURCES	AMOUNT
Non Federal Entities	
1. Martis Fund	\$175,000
Non-Federal Subtotal	\$175,000
Other Federal Entities	
Other Federal Subtotal	\$0
REQUESTED RECLAMATION FUNDING	\$99,998.44
Total Project Funding	\$274,998.44

Budget Proposal

BUDGET ITEM DESCRIPTION	COMPUTATION		Quantity Type	Reclamation Request	Cost-share match	TOTAL COST
	\$/Unit	Quantity				
Salaries and Wages						
Project Manager	\$40/hr	96	hours	\$3,840.00	\$29,800.00	\$33,640.00
Executive Director	\$60/hr	32	hours	\$1,920.00	\$2,220.00	\$4,140.00
Fringe Benefits						
Project Manager	\$20/hr	96	hours	\$1,920.00	\$14,900.00	\$16,820.00
Executive Director	\$30/hr	32	hours	\$960.00	\$1,110.00	\$2,070.00
Travel						
Martis Valley	\$0.535	184	miles	\$98.44	\$ -	\$98.44
Equipment						
				\$ -	\$ -	\$ -
Supplies and Materials						
				\$ -	\$ -	\$ -
Contractual/Construction						
Design				\$ -	\$87,468.00	\$87,468.00
Construction	1	1	bid	\$82,000.00	\$ -	\$82,500.00
Engineer	\$150/hr	20	hours	\$3,000.00	\$ -	\$3,000.00
Archaeologist	\$125/hr	8	hours	\$1,000.00	\$ -	\$1,000.00
SWPPP	\$100/hr	10	hours	\$1,000.00	\$ -	\$1,000.00
Bookkeeper	\$40/hr	24	hours	\$960.00	\$960.00	\$1,920.00
Other						
Pre Project Monitoring				\$ -	\$26,283.00	\$26,283.00
Environmental and Regulatory Compliance				\$1,000.00	\$3,509.00	\$4,509.00
Post Project Monitoring	\$120/hr	15	hours	\$1,800.00	\$ -	\$1,800.00
Outreach				\$ 500.00	\$8,750.00	\$8,750.00
TOTAL DIRECT COSTS				\$99,998.44	\$175,000.00	\$274,998.44
Indirect Costs						
TOTAL ESTIMATES PROJECT COSTS				\$99,998.44	\$175,000.00	\$274,998.44

Budget Narrative

Salaries and Wages

The primary project manager is Michele Prestowitz, Program Manager. Ms. Prestowitz's responsibilities include preparing subcontracts, managing subcontractors, overseeing construction, stakeholder coordination, completing all reports, deliverables, and invoicing. We estimate 96 hours of project management annually at a rate of \$40/hour.

Lisa Wallace, Executive Director, is responsible for financial oversight and supports stakeholder coordination. She will spend an estimated 32 hours annually on the project at a rate of \$60/hour.

Compensation rates and calculations are shown in the budget proposal.

Fringe Benefits

Fringe benefits include health, and life insurance, and retirement contribution. They are calculated proportionally to the number of hours each employee will spend on the project and their hourly rate. Please see the budget proposal for rates and calculations.

Travel

The anticipated travel expense includes 23 local trips to Martis Valley, 8 miles roundtrip, for project supervision. We use the federal mileage reimbursement rate of \$0.535/mile to calculate costs. There are no trips out of the area, therefore we do not include airfare, lodging, per diem, or miscellaneous travel costs.

Equipment

We will not purchase any equipment for this project. All equipment rental costs will be included in the construction contractor bid, and therefore are not included in the project budget.

Materials and Supplies

Materials and supplies costs for construction will be included in the contractor bid, and therefore are not included in the project budget. No other materials and supplies are included.

Contractual

Contract expenses include construction; engineering, archeological and SWPPP construction oversight; and bookkeeping.

We will use a public bid process to select a construction firm to complete the project. Over the past decade, we have successfully hired restoration construction firms through public bid processes. Minimum qualifications for contractors include being licensed to do business in the

state of California. Project-specific criteria include relevant successful experience constructing restoration projects, and sediment and erosion control projects. Specific criteria will be defined prior to going to bid. Construction bid will include labor, equipment, materials and supplies, and insurance. Construction estimates are based on past experience with the existing pool of qualified contractors available in the area.

Environmental and Regulatory Compliance Costs

All environmental and regulatory compliance will be complete prior to the start of this project and costs are not included in the current budget. USACE, project partner and sole land owner of the project area, will be the lead Federal agency for NEPA compliance; therefore Reclamation will not need to be the lead Federal agency. However, \$1,000 was included in the budget for Reclamation to review compliance documents.

Other Expenses

We will conduct post-project monitoring to verify the success of the project. Expenses will include surface water monitoring, sediment reduction monitoring, photo-documentation, and preparing annual and final monitoring reports.

Outreach expenses will include interpretive signage, publishing articles in our on-line and print newsletters, and managing volunteer restoration opportunities on our annual Truckee River Day.

Indirect Costs

TRWC does not have a negotiated indirect cost rate, and it is not cost effective for us to track and submit documentation for non-negotiated costs.

Total Costs

The total cost of the project is \$274,998.44. Of this, \$175,000 is provided by the Martis Fund, non-federal funds that have been secured and are currently available. We respectfully requests \$99,998.44 from the Bureau of Reclamation. Please see **Table 3** for the Proportion of Non-Federal and Federal Funding.

Table 3 – Proportion of Non-Federal and Federal Funding

FUNDING SOURCES	AMOUNT	PROPORTION
Non-Federal Entities	\$175,000.00	64%
Federal Entities	\$99,998.44	36%
Total Project Funding	\$274,998.44	100%

Attachments

- (1) Self-certification that group meets the definition of a “Watershed Group”
- (2) Articles of incorporation
- (3) Bylaws
- (4) Mission statement
- (5) Self-certification that group holds regular meetings
- (6) Watershed management and/or restoration plan
- (7) Letters of Project Support – USACE
- (8) Letters of Project Support – Other
- (9) Official Resolution
- (10) Letter of Commitment

RESOLUTION – Mainstem Martis Restoration

January 31, 2017

BOARD OF DIRECTORS
Truckee River Watershed Council

A RESOLUTION AUTHORIZING ENTERING INTO AN AGREEMENT WITH BUREAU OF RECLAMATION AND DESIGNATING A REPRESENTATIVE TO SIGN THE AGREEMENT, AND ANY AMENDMENTS THERETO, FOR THE MAINSTEM MARTIS RESTORATION PROJECT.

Whereas, the Board authorizes the Truckee River Watershed Council to enter into an Agreement with the Bureau of Reclamation; and

Whereas, the Board authorizes the Executive Director or designee, to sign the Agreement, and any amendments thereto; and

Whereas, the Executive Director has reviewed and supports the application submitted; and

Whereas, the Truckee River Watershed Council has secured from the Martis Fund the match funding contributions specified in the funding plan; and

Whereas, the Truckee River Watershed Council will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement;

Now, therefore, be it resolved, that the Truckee River Watershed Council Board of Directors hereby adopts Resolution – Mainstem Martis Restoration.

CERTIFICATION

I hereby certify that the foregoing Resolution - Mainstem Martis Restoration was duly and regularly adopted by the Board of Directors of the Truckee River Watershed Council, with a motion by Michael Park and seconded by Gayle Dana, the motion passed by the following email vote:

Ayes: Jeff Brown, Marilyn Disbrow, Gayle Dana, John Eaton, Dave Giacomini, Michael Park, Jody Poe, Deb Ryan, Gail Stephens,
Noes: none
Abstain: none
Absent: Jake Hudson

Attest:



Michael Park, Chair of the Board



N.C.S.D

Northstar Community Services District
900 Northstar Drive, Truckee, CA 96161
P: 530.562.0747 • F: 530.562.1505 • www.northstarcsd.org

Board of Directors
JEANN GREEN
NANCY IVES
DARRELL SMITH, PRESIDENT
FRANK SEELIG
CATHY STEWART

General Manager
MICHAEL STAUDENMAYER

February 2, 2017

Bureau of Reclamation
Financial Assistance Operations Section
Attn: Ms. Irene Hoiby
Mail Code: 84-27852
P.O. Box 25007
Denver, CO 80225

To the Bureau of Reclamation,

I would like to express my support of the Truckee River Watershed Council's (TRWC) funding request to implement wetland restoration along the Mainstem of Martis Creek.

The Northstar Community Services District (NCS D) was founded in 1990 under Government Code 61600 as a local government entity to serve the Northstar region with governmental services. The District provides water, sewer collection, solid waste management, recycling services, fire protection, forest fuels management, snow removal, road surface maintenance, and trail construction and maintenance. NCS D formally supports TRWC's mission, goals, and programs. The District has participated as a stakeholder and donor on several successful projects completed by TRWC, including the Martis Watershed Assessment and the Middle Martis Wetland Restoration.

The mainstem of Martis Creek is badly incised and actively eroding along the reach running through the Martis Wildlife Area in Martis Valley. The Mainstem Martis Creek Restoration project will improve water quality, enhance existing wetlands, and improve wildlife habitat. As a neighboring land manager, we strongly support efforts to conserve the natural environment.

The Truckee River Watershed Council is a vital part of our community. We are pleased to support their ongoing work to protect, enhance and restore the Truckee River watershed.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mike Staudenmayer", with a long horizontal flourish extending to the right.

Mike Staudenmayer
General Manager
Northstar Community Services District



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO, CALIFORNIA, 95814-2922
February 8, 2017

Englebright Lake
12896 Englebright Dam Road
Smartsville, CA
(530) 432-6427

Bureau of Reclamation
Financial Assistance Operations Section
Attn: Ms. Irene Hoiby
Mail Code: 84-27852
P.O. Box 25007
Denver, CO 80225

To the Bureau of Reclamation,

The United States Army Corps of Engineers (USACE), Sacramento District, Martis Creek Lake would like to express our support of the Truckee River Watershed Council's (TRWC) funding request to implement the Mainstem Martis Creek Restoration project.

USACE fully supports TRWC's mission, goals, and programs. We have participated as a stakeholder in several successful projects completed by TRWC, including the Martis Watershed Assessment and the Middle Martis Wetland Restoration.

The mainstem of Martis Creek is badly incised and actively eroding along the reach running through the Martis Creek Wildlife Area in the Martis Valley. The Mainstem Martis Creek Restoration project will improve water quality, enhance existing wetlands, and improve wildlife habitat. As sole land manager in the project area, we strongly support efforts to conserve the natural environment, and we intend to grant full access to the project site for the purposes of the restoration project.

The Truckee River Watershed Council is a vital part of our community. We are pleased to support their ongoing work to protect, enhance and restore the Truckee River watershed.

Sincerely,

Douglas E. Grothe
Park Manager
Englebright and Martis Creek Lakes



2/7/2017

Bureau of Reclamation
Financial Assistance Operations Section
Attn: Ms. Irene Hoiby
Mail Code: 84-27852
P.O. Box 25007
Denver, CO 80225

To the Bureau of Reclamation,

Northstar California Resort would like to express our support of the Truckee River Watershed Council's (TRWC) funding request to implement wetland restoration along the Mainstem of Martis Creek.

Northstar formally supports TRWC's mission, goals, and programs. We have participated as a stakeholder in several successful projects completed by TRWC, including the Martis Watershed Assessment and the Middle Martis Wetland Restoration.

The mainstem of Martis Creek is badly incised and actively eroding along the reach running through the Martis Wildlife Area in Martis Valley. The Mainstem Martis Creek Restoration project will improve water quality, enhance existing wetlands, and improve wildlife habitat. As a neighboring land owner, we strongly support efforts to conserve the natural environment.

The Truckee River Watershed Council is a vital part of our community. We are pleased to support their ongoing work to protect, enhance and restore the Truckee River watershed.

Sincerely,

A handwritten signature in blue ink that reads "Nadia".

Nadia V. Guerriero
Vice President and General Manager
Northstar California Resort

Bureau of Reclamation
Financial Assistance Operations Section
Attn: Ms. Irene Hoiby
Mail Code: 84-27852
P.O. Box 25007
Denver, CO 80225

**Mainstem Martis Creek Restoration
Truckee River Watershed Council
Letter of Commitment**

The Martis Fund commits to \$175,000 in cost-sharing funds for the Truckee River Watershed Council's (TRWC) funding proposal to implement the Mainstem Martis Creek Restoration project (Mainstem Martis project). These funds are available January 2017 through December 2019, and must be used to complete restoration design work in the Martis Wildlife Area. There are no other contingencies for the funding.

December 2016, the Martis Fund awarded TRWC a grant over three years to complete six priority projects in Martis Valley and Placer County. This includes \$175,000 to complete design work in the Martis Wildlife Area in support of the Mainstem Martis project. Please see the attached grant agreement, page 8, for confirmation of the matching amount.

The mission of The Martis Fund is to conserve open space, manage and restore habitat and forest lands, and support workforce housing and related community purposes in the Martis Valley and greater Placer County region. They connect non-profit organizations to financial resources to complete projects serving our mission.

**MARTIS FUND
GRANT AGREEMENT**
Grant Number: 2016-09-HRP-TRWC

Restoration Project Long Term Support

This Grant Agreement, is made effective the date last signed below, between The Martis Fund, a California nonprofit public benefit corporation ("Grantor"), and Truckee River Watershed Council, a California nonprofit public benefit corporation ("Grantee"), with respect to the following:

A. Grantor has obtained recognition of its tax-exempt status under Section 501(c)(3) of the Internal Revenue Code (the "Code") from the Internal Revenue Service, and is classified as a supporting organization under Section 509(a)(3) of the Code. Grantor's charitable purposes, as stated in its Articles of Incorporation, include benefiting public charities whose purposes or activities include the preservation, protection, or enhancement of land in its natural, scenic, historical, agricultural, forested, or open-space condition or use.

B. Grantee has obtained recognition of its tax-exempt status under Section 501(c)(3) of the Code from the Internal Revenue Service, and is classified as a public charity under Sections 509(a)(1) and 170(b)(1)(A)(vi) of the Code. Grantee's charitable purposes include protecting, enhancing, and restoring the Truckee River watershed.

C. In furtherance of its own charitable and educational purposes, Grantor now wishes to make a specific project grant to Grantee, in the amount and on the terms and conditions set forth below.

In consideration of the mutual rights and obligations set forth herein, the parties to this Agreement hereby agree as follows:

1. This grant (the "Grant") is made in support of Grantee's work to move six restoration projects in the Martis Valley and Placer County through the design (e.g., shovel ready) phase over the course of 2017-2019 as described in Exhibit A.

2. Following delivery to Grantor of a copy of this Agreement signed by Grantor and Grantee, Grantor shall pay to Grantee for the purposes stated in paragraph 1 **\$350,000.00 per year for three years (for a total sum of \$1,050,000 over three years)**. Beginning in 2017 Grantee shall submit one invoice per year to the Martis Fund care of the Grantor Contact specified below. All invoices shall reference the grant number above. Payment shall be due within 30 days of the Martis Fund's receipt of the invoice.

3. The contact information for each of the parties is set forth below and all notices, invoices, and payments, as applicable shall be sent to the party at the address below by U.S. mail or overnight delivery such as federal express. E-mail may be used where feasible provided that receipt is acknowledged by the recipient.

	Grantor Contact	Grantee Contact
Name:	Richard Taylor	Lisa Wallace
Address:	396 Hayes Street San Francisco, CA 94102	Truckee River Watershed Council P.O. Box 8568 Truckee, CA 96162
E-mail:	rtaylor@smwlaw.com	lwallace@truckeeriverwc.org
Phone:	415-552-7272	530-550-8760

4. Grantee shall use the Grant solely for the purposes stated in paragraph 1, and Grantee shall repay to Grantor any portion of the Grant which is not used for those purposes. Any changes in the purposes of the Grant must be approved by Grantor in advance, in writing.
5. In written materials describing the project(s) supported by this grant (e.g., web announcements, press releases, reports to other grantors) Grantee shall acknowledge the support of the Martis Fund and describe the Martis Fund as “a collaborative project of Martis Camp landowners, DMB/Highlands Group (the developers of Martis Camp), Mountain Area Preservation (MAP), and Sierra Watch.”
6. Grantee shall submit to Grantor an annual progress report in no later than September 30 of each year in which funds are paid and a final report no later than April 30, 2020. The reports shall document progress on at least two new projects per year and include the information specified on page 6 of Exhibit A. The reports shall be delivered to the Martis Fund care of the Grantor Contact. Upon request of the Grantor Contact, Grantee shall meet with the Martis Fund Board at least once per year to discuss progress on the project. Notwithstanding section 2 of this agreement, if the Martis Fund Board determines, in its reasonable discretion, that Grantee has not demonstrated substantial progress on at least two projects per year as contemplated in Exhibit A, no further grant payments shall be made unless and until Grantor and Grantee have conferred and agreed upon a mutually agreeable corrective action plan.
7. With regard to any subgrantees convenient or necessary to carry out the purposes of the Grant, Grantee shall retain full discretion and control over their selection, acting completely independently of Grantor.
8. The Grant is not earmarked for use in any attempt to influence legislation within the meaning of Code Section 501(c)(3). Grantee shall not use any portion of the Grant to participate or intervene in any political campaign on behalf of or in opposition to any candidate for public office, to induce or encourage violations of law or public policy, to cause any private inurement or improper private benefit to occur, nor to take any other action inconsistent with Section 501(c)(3) of the Code.
9. Grantee shall notify Grantor immediately of any change in (a) Grantee’s tax-exempt status, or (b) Grantee’s executive staff or key staff responsible for achieving the Grant purposes.
10. Grantee hereby irrevocably and unconditionally agrees, to the fullest extent permitted by law, to defend, indemnify and hold harmless Grantor, its officers, directors, trustees, employees, and agents, from and against any and all claims, liabilities, losses, and expenses (including

reasonable attorneys' fees), directly or indirectly, wholly or partially, arising from or in connection with any act or omission of Grantee, its officers, directors, employees, or agents, in applying for or accepting the Grant, in expending or applying the proceeds of the Grant, or in carrying out the program(s) or project(s) to be funded or financed by the Grant, except to the extent that such claims, liabilities, losses, or expenses were caused by any act or omission of Grantor, its officers, directors, trustees, employees, or agents.

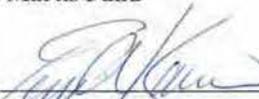
11. In the event that Grantee violates or fails to carry out any provision of this Agreement, Grantor may, in addition to any other legal remedies it may have, refuse to make any future grants or installment payments of this Grant to Grantee, and Grantor may demand the immediate return of all or any unexpended portion of the Grant, and Grantee shall immediately comply therewith. The amount of grant funds to be repaid to the Grantor shall not include funds expended, or needed to meet obligations incurred by Grantee to third parties, in good faith, for the purposes of the specific project described above, prior to Grantee's receipt of the Grantor's written demand for repayment. Neither this Agreement nor any other statement, oral or written, nor the making of any Grant, shall be interpreted to create any pledge or any commitment by Grantor to make any other Grant to Grantee.

12. This Agreement supersedes any prior oral or written understandings or communications between the parties and constitutes the entire agreement of the parties with respect to the subject matter hereof. This Agreement may not be amended or modified except in a writing signed by both parties hereto.

IN WITNESS WHEREOF, the parties have executed or caused to be executed this Grant Agreement on the dates set forth opposite their signatures below.

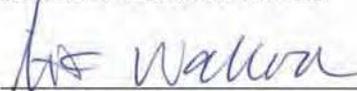
The Martis Fund

DATED: 12/22, 2016

By: 
Name: Eneas Kane
Title: President

Truckee River Watershed Council

DATED: 1/6/16, 2016

By: 
Name: Lisa Wallace
Title: Executive Director

Attachment

A – Restoration Project Long Term Support Proposal

ATTACHMENT A

851178.1

Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

Organizational Information

Name of Organization: Truckee River Watershed Council

Type of Organization: 501(c)3 Non-profit

Board of Directors

Jeff Brown
UC Berkeley, Sagehen Creek Field Station

Jake Hudson
Holdrege & Kull

Gayle Dana
Desert Research Institute

Michael Park, Chair
Retired, Wells Fargo

Marilyn Disbrow, Vice-Chair
Retired, GAP, Inc.

Jody Poe, Secretary
Tahoe.com

John M. Eaton
Mountain Area Preservation Foundation

Gail Stephens
Retired, Psychologist

Dave Giacomini, Treasurer
Sierra Mountain Mortgage

Deb Ryan
Holdrege & Kull

Who is responsible for work:

Lisa Wallace, Executive Director will provide program oversight.

Executive Director: Lisa Wallace

Contact Information:

Truckee River Watershed Council
P.O. Box 8568
Truckee, CA 96162

Phone: (530) 550-8760
www.truckeeriverwc.org
lwallace@truckeeriverwc.org;

Key contact person: Lisa Wallace

Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

Summary Project Description

We are asking the Martis Fund to help us increase the number of restoration projects we complete each year.

The goal of this proposal is to move six restoration projects in the Martis Valley and Placer County through the design (e.g. "shovel-ready") phase.

Specifically, we are asking for \$350,000 a year for each of 2017, 2018, and 2019 to fund the stakeholder management, design, environmental compliance, community outreach, and project coordination phases of six projects.

Once these projects are "shovel-ready", they will be eligible for the State of California Prop 1 Water Bond funding for implementation and post-project monitoring.

Please note that should the Martis Fund commit to this level of funding, we will not return in the grant period with additional requests.

A statement describing how this project relates to your organization and your organization's strategic plan/business plan goals

Our Mission. The mission of the Truckee River Watershed Council is to protect, enhance, and restore the Truckee River watershed. We set a target of implementing 50 high priority restoration projects over the next 10 years within the Truckee River watershed. Many of these sites are in the Martis Valley and Placer County.

Accelerate Project Development - 6 Projects in 3 years. The goal of this proposal is to move six restoration projects in the Martis Valley and Placer County through the design (e.g. "shovel-ready") phase.

Prop 1 Funds Can Pay For Implementation. Once these projects are "shovel-ready", they will be eligible for the State of California Prop 1 Water Bond funding for implementation and post-project monitoring. 90% of the Prop 1 Water Bond funds are legislated to pay for implementation, thus 90% of Prop 1 grants require projects have design and environmental compliance completed before they can be considered for funding. The majority of Prop 1 Water Bond funding will be distributed by approximately 2022 – that is, within six years.

Benefits to Fish, Wildlife, Birds, Water Quality, and Water Supply. If we can move the projects through the design and environmental compliance (CEQA) phases, we have an opportunity to achieve significant restoration benefit. Potentially hundreds of acres of meadow and wetland, and miles of stream and creek reaches, can be restored. This habitat restoration will benefit water quality, wildlife, birds, fish, and will help protect ground water infiltration zones in Martis Valley Aquifer.

A Proven Partnership: Martis Fund and Truckee River Watershed Council. Our organizations have worked together since 2008.

Over those eight years, the Martis Fund has awarded \$1,809,460 to the Watershed Council and we have leveraged those funds with an additional \$2,208,000.

Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

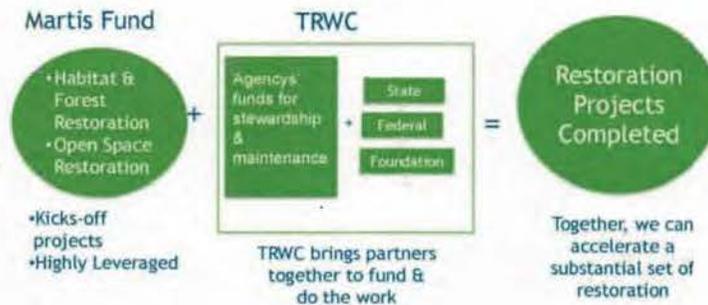
The Martis Watershed Assessment (2010) established a clear need for restoration in Martis Valley. Since its completion, the Martis Fund and Watershed Council have been able to:

- Restore 65 acres of meadow,
- Restore 4 miles of stream,
- Treat 2,000 acres of invasive weeds.

Successful Funding Model. Since 2008, the Martis Fund has provided early funding for projects and programs and the Watershed Council has matched and leveraged those funds over 100%.

We secure match funds:

- 1) With partners through their stewardship and maintenance funds. i.e. in the Middle Martis Wetland Restoration project, Northstar Community Services District contributed funding from their road maintenance budget because the project preventing damaging flood flows from disabling a key access road;
- 2) From Federal, State, and private foundation grants, i.e. with the Martis Watershed Assessment, the Bella Vista Foundation awarded a grant because the assessment aligned with their priorities to restore and preserve Sierra Nevada meadows.



Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

Projects & Locations.

We set a target of implementing 50 high priority restoration projects over the next 10 years within the Truckee River watershed. Many of these sites are in the Martis Valley and Placer County.

Martis Valley:

1. Middle Martis Wetlands
2. Elizabethtown Meadow
3. Martis Creek Mainstem
4. Dry Lake / East Martis Creek
5. *Martis Wildlife Area - 2017*

Placer County:

6. First 4 Mile Restoration, Sites 1, 2, 3
7. First 4 Mile Restoration, Sites 4-10
8. Pole Creek
9. Cabin Creek
10. Deer Park
11. *Bear Creek - 2017*
12. USFS Tributaries Assessment

For this proposal, in 2017 we will focus on design in the Martis Wildlife Area and Bear Creek.

- The Martis Wildlife Area is identified as a priority in the Martis Watershed Assessment (2010), the US Army Corps of Engineers is a strong partner and agrees with the priority;
- Bear Creek is identified in the Tributaries Assessment (2016); the US Forest Service is a strong partner and agrees with the priority;
- The restoration needed in both projects will be consistent with Prop 1 funding.



Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

Scope of Work

Each of the six projects will result in:

- Partnership agreements(s);
- Final project design;
- Pre-project monitoring;
- NEPA/CEQA filing;
- Environmental permit filing.

For each of the projects, we will complete the following tasks.

Task 1: Project Management & Stakeholder Coordination

Project management will include hiring and managing technical consultants, reporting annually to the Martis Fund, and assuring each project stays within schedule and budget.

Each project will have a diverse group of partner agencies and organizations. Thorough and consistent communication will be necessary to ensure each projects success. In addition to informal contact with partners, we will have a series of formal partner meetings at the following project milestones: field data review, 50% design plan review, and 90% design plan review, and design finalization.

Task 2: Design

To complete the design for each project, detailed surveying, field reconnaissance, and hydraulic modeling will be necessary. Final project design will include access, stockpile, and staging locations; grading quantity estimates; revegetation plan; erosion prevention plan; and materials, equipment, and cost estimates. Restoration design will include estimates of sediment reduction and wetland gains.

Design plans will go through partner review at the 50% and 90% level.

Task 3: Environmental Compliance

We will complete and file environmental permits and CEQA/NEPA documentation. The projects may require permits from the Lahontan Regional Water Quality Control Board, U.S. Army Corps of Engineers, California Department of Fish and Wildlife, and Placer County.

Task 4: Pre-project Monitoring

Monitoring activities will be selected specifically for each project and will include appropriate combinations of hydrologic monitoring (ground water, surface water), water quality, and bird, fish, wildlife, wetland, and biological surveys.

Task5: Community Outreach

Each project will include community outreach via TRWC web and print publications, media web and print publications, public meetings, signage, and volunteer participation in pre-project monitoring.

Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

Reporting

Annual Written Report

We propose to submit annual written reports in December of each year which include:

1. Formal financial reports of budget vs. actual report, with notes on variances;
2. Project summary, goals, tasks, and schedule;
3. Results and outcomes specific to each project;
4. Course corrections and lessons learned;
5. Sustainability and future project funding.

Reporting can be further defined. We understand this proposal is a significant commitment and are willing to do the level of reporting requested by the Martis Fund.

Annual Presentation

We propose to meet annually with the board of the Martis Fund in December each year to:

- briefly review the topics covered in the written annual report
- discuss the next year's projects

As with the written report, the presentation can be further defined to meet the requests of the Maris Fund Board.

Truckee River Watershed Council
"General Support" Proposal
December 8, 2016

Budget Notes and Table

- **Line Time Amounts**

- o Line item amounts are based on our experience in designing 12plus projects from 2005 – 2016
- o Actual spending of line item amounts may vary from project to project, but will not exceed \$175,000 per project

- **Forest Health**

- o Not included in this proposal
- o TRWC and U.S.F.S Tahoe National Forest have been in discussion since March 2016
- o Likely to partner on Forest Health starting in 2017

- **Weed Warriors**

- o Not included in this proposal
- o Fully funded through 2020
 - Martis Fund @ \$50,000 a year for each of 2016-2018
 - Sierra Nevada Conservancy: Project # 909, \$343,000 for 2017 – 2019
- o If this proposal is accepted, we will not ask the Martis Fund for Weed Warrior funding in the proposal period
- o The current Martis Fund grant has allowed us to obtain other funding – thank you!

- **Adopt-A-Stream**

- o Not included in this proposal
- o Fully funded through 2018
- o Martis Fund @ \$20,000 a for each of 2016-2018
- o Truckee Tahoe Airport District: \$3,000 for 2017
- o If this proposal is accepted, we will not ask the Martis Fund for Adopt-A-Stream funding in the proposal period
- o The current Martis Fund grant has allowed us to obtain other funding – thank you!

- **Operating Funds**

- o Not included in this proposal
- o Previous grants from the Martis Fund have allowed us to build a donor base that meets our needs for operating funds – thank you!

Truckee River Watershed Council
"General Support" Proposal
 December 8, 2016

Item	Budget		
2017 Project 1 - Martis Wildlife Area			
Proj Mgmt & Stakeholder Coor	\$26,250		
Design	\$87,500		
Environmental Compliance	\$26,250		
Pre-project Monitoring	\$26,250		
Community Outreach	\$8,750		
		Project subtotal	\$175,000
2017 Project 2 - Bear Creek			
Proj Mgmt & Stakeholder Coor	\$26,250		
Design	\$87,500		
Environmental Compliance	\$26,250		
Pre-project Monitoring	\$26,250		
Community Outreach	\$8,750		
		Project subtotal	\$175,000
		2017 TOTAL	\$350,000
2018 Project 3 - Martis Valley			
Proj Mgmt & Stakeholder Coor	\$26,250		
Design	\$87,500		
Environmental Compliance	\$26,250		
Pre-project Monitoring	\$26,250		
Community Outreach	\$8,750		
		Project subtotal	\$175,000
2018 Project 4 - Placer County			
Proj Mgmt & Stakeholder Coor	\$26,250		
Design	\$87,500		
Environmental Compliance	\$26,250		
Pre-project Monitoring	\$26,250		
Community Outreach	\$8,750		
		Project subtotal	\$175,000
		2018 TOTAL	\$350,000
2019 Project 5 - Martis Valley			
Proj Mgmt & Stakeholder Coor	\$26,250		
Design	\$87,500		
Environmental Compliance	\$26,250		
Pre-project Monitoring	\$26,250		
Community Outreach	\$8,750		
		Project subtotal	\$175,000
2019 Project 6 - Placer County			
Proj Mgmt & Stakeholder Coor	\$26,250		
Design	\$87,500		
Environmental Compliance	\$26,250		
Pre-project Monitoring	\$26,250		
Community Outreach	\$8,750		
		Project subtotal	\$175,000
		2019 TOTAL	\$350,000
		GRAND TOTAL	\$1,050,000