

TRUCKEE RIVER FUND

Enhancing and protecting our water resources

TRUCKEE RIVER FUND ADVISORY COMMITTEE

AGENDA

Friday, August 17, 2018, 9:00 a.m.

Community Foundation of Western Nevada

50 Washington Street, Suite 300, Reno, NV 89509

NOTES:

1. The announcement of this meeting has been posted at the following locations: Truckee Meadows Water Authority (1355 Capital), Reno City Hall (1 E. First), Sparks City Hall (431 Prater), Sparks Justice Court (1675 E. Prater Way, Sparks), Washoe County Clerk's Office/Courthouse (75 Court), Washoe County Central Library (301 South Center) Washoe County Administration (1001 East Ninth), and at <http://www.truckeeriverfund.org/meetings.shtml> and State of Nevada Public Notice Website, <https://notice.nv.gov/>.
2. In accordance with NRS 241.020, this agenda closes three working days prior to the meeting. We are pleased to make reasonable accommodations for persons who are disabled and wish to attend meetings. If you require special arrangements for the meeting, please call 834-8002 before the meeting date.
3. Staff reports and supporting material for the meeting are available at Truckee River Fund and on the Truckee River Fund website <http://truckeeriverfund.org/meetings/> or you can contact Sonia Folsom at (775) 834-8002. Supporting material is made available to the general public in accordance with NRS 241.020(6).
4. The Committee may elect to combine agenda items, consider agenda items out of order, remove agenda items, or delay discussion on agenda items. Arrive at the meeting at the posted time to hear item(s) of interest.
5. Asterisks (*) denote non-action items.
6. Public comment is limited to three minutes and is allowed during the public comment periods. The public may sign-up to speak during the public comment period or on a specific agenda item by completing a "Request to Speak" card and submitting it to the clerk. In addition to the public comment periods, the Chairman has the discretion to allow public comment on any agenda item, including any item on which action is to be taken.

1. Roll Call*
2. Public comment (limited to no more than three minutes per speaker)*
3. Approval of the agenda (for possible action)
4. Approve the February summary meeting minutes (**for possible action**)
5. Approve the June summary meeting minutes (**for possible action**)
6. Fund balance report*
7. Hear nominations for and possible election of chair and vice chair for Advisory Committee (**for possible action**)
8. Possible special RFP cycle for proposals concerning sanitation (**for possible action**)
9. Review grant proposals to Truckee River Fund and select projects to be recommended for funding (**for possible action**) : #204 KTMB: \$70,760; #205 SNJ: \$36,207; #206 TMPF: \$54,770; #207 City of Reno: \$23,472; #208 TNC of NV: \$57,826.09; #209 TRWC: \$100,000; #210 TRWC: \$50,000; #211 TRCD: 346,520.76; #212 NTCD: \$232,687.50; #213 City of Reno: 126,000
10. Review completed projects*
11. Committee and staff comments*
12. Next meeting: November 30, 2018 as scheduled; consider moving to Oct. 12th or 19th (**for possible action**)
13. Public comment (limited to no more than three minutes per speaker)*
14. Adjournment (**for possible action**)

MEETING MINUTES (TRANSCRIPT SUMMARY)

TRUCKEE RIVER FUND ADVISORY COMMITTEE MEETING OF FEBRUARY 23, 2018

The following meeting minutes is a summary of the certified transcript for the Truckee River Fund Advisory Committee meeting held at 8:30 a.m., Friday, February 23, 2018.

Those Present: Committee Members: Janet Phillips, Chairman; Susan Lynn, Vice Chairman; Michael Cameron; Bill Bradley; Mike Brisbin (speaker phone); Candice Elder (speaker phone); Don Mahin; and Ron Penrose; Also: Lauren Renda, Community Foundation of Western Nevada; John Enloe and Sonia Folsom, both with TMWA; and Debbie Leonard, Esq., McDonald Carano Wilson, LLP; Members of the Public: Nathan Daniel and Geanette Orton, both with Truckee Meadows Park Foundation; Kurt Kuenicki and Nora Koffman, both with Friends of Nevada Wilderness; Christi Cakiroglu and Lynda S. Nelson (speaker phone), both with One Truckee River; Kim Rigdon, NDEP; Jill Sutherland, Resource Concepts; Eaton Dunkelberger and Sean Hill, both with Sierra Nevada Journeys; Alexis A. Ollar and Nikki Riley, both with Mountain Area Preservation; Mandy Williams, SWCA Environmental Consultants; Randy Westmoreland, U.S. Forest Service; Lisa Wallace and Matt Freitas, both with Truckee River Watershed Council; Bryan Davey, Sierra County; Quentin Youngblood, Tahoe National Forest; Evan Ritzinger, National Forest Foundation; Birgit Henson, NDEP; Jim Heier and Kevin Flom, both with Resource Action Programs; and John Svahn (speaker phone), Truckee Donner Land Trust.

* Committee member arrived after roll call

** Committee member left meeting before adjournment

Agenda Item #1: Roll Call: Roll call was taken. A quorum was noted.

Agenda Item #2: Public comment: There was no public comment.

Agenda Item #3: Approval of the agenda (for possible action): The agenda was unanimously approved.

Agenda Item #4: Approve the December summary meeting minutes (for possible action): The Meeting Minutes (Transcript Summary) for December 1, 2017 was unanimously approved.

Agenda Item #5: Fund balance report: Lauren stated that we have \$501,765.88 available to spend. The next installment is anticipated to be \$800,000 and to take place in the August time frame. The next funding cycle will be in August.

Agenda Item #6: Review grant proposals to Truckee River Fund and select projects to be recommended for funding (for possible action): Janet indicated that this is the largest pool of good projects that she's seen but that the total amount of them exceeds the amount available to spend, requested that the proposers be thinking about ways they can cut back today, such as postponing activities until the next funding cycle. The following grant proposals were considered at length and voted on by the group and approved, rejected/declined, or action taken as follows:

#195, Sierra Nevada Journeys, Watershed Education Initiative, \$83,376 requested, was unanimously approved for the reduced amount of \$46,376, which reflected the removal of the Resource Action Programs (RAP) portion, together with the coordination regarding that. Sean Hill and Eaton Dunkelberger were present and provided input and answered questions. Jim Heier and Kevin Flom were present and also provided input regarding RAP.

#196, Friends of Nevada Wilderness, Mount Rose Noxious Weed Monitoring and Treatment #6, \$23,724 requested, was unanimously approved for the slightly reduced amount of \$23,500. The proposers suggestion the reduction to help with the amount available to fund today. Nora Koffman and Kurt Kuenicki were present and provided input and answered questions.

#197, Truckee Meadows Parks Foundation, Doggie Ambassador Project, \$15,214, was unanimously approved for the full amount. Nathan Daniel and Geanette Orton were present and provided input and answered questions.

#198, Board of Regents, NSHE, obo the Desert Research Institute, Determining the role of signal crayfish in the Truckee River foodweb, \$12,010, was unanimously rejected. Their proposal was incomplete in that there are rules that overhead cannot be used as match, also that there cannot be more than 25% overhead. No one was present to provide input or answer questions, but the proposer is invited to come back at the next funding cycle.

#199, Truckee Donner Land Trust, Cold Stream Meadow Road Decommissioning and Restoration Project, \$65,000, was unanimously approved for the full amount. John Svahn appeared by speaker phone and provided input and answered questions. Randy Westmoreland was present and provided additional input. Lisa Wallace clarified that this Cold Stream project is in Upper Little Truckee and is different than the Coldstream project at Donner Lake.

#200, Truckee River Watershed Council, Truckee Meadows Restoration Project - Phase 2 Construction, \$30,000, was unanimously approved for the full amount. Matt Freitas and Lisa Wallace were present and provided input and answered questions.

#201, National Forest Foundation, Perazzo Meadows Watershed Restoration & Erosion Control Project, \$189,099.40 requested, was unanimously approved for the reduced amount of \$148,000, which came about because the proposer offered to reduce their request, indicating that the project is being phased and there's a component that they can defer to a later date. Evan Ritzinger, Bryan Davey, Randy Westmoreland and Quentin Youngblood were present and provided input and answered questions.

#202, Mountain Area Preservation, Trout Creek Pocket Park Stewardship & Service Learning Program, \$8,000, was unanimously rejected. The thought was that the local governments of California should be funding this project instead of our local ratepayers' money being used to help students in California.

#203, One Truckee River (Through Nevada Land Trust, OTR Partner and Fiscal Agent), One Truckee River: Watershed Management and Source Protection Plan & OTR Partnership Support, \$273,580 requested, was unanimously approved for the reduced amount of \$173,580. John Enloe explained that \$100,000 of this proposal effort is planned to be funded by the Western Regional Water Commission instead. Christi Cakiroglu and Lynda Nelson (speaker phone) were present and provided input and answered questions.

Agenda Item #7: Discuss tracking of match funds to ensure the requirement is met (for possible action): Lauren stated that there was one instance where a grantee submitted their final report and didn't quite make up to the 25% match. The group discussed possible ways to better track the match. Debbie Leonard provided input. No action was taken.

Agenda Item #8: Discuss and select date for field trip (for possible action): The group discussed taking a field trip and possible places to go, taking the field trip right after the next meeting on June 1st, which would start at the earlier time of 8:00 a.m. Michael and Janet will organize an itinerary for the field trip. Janet also mentioned having a slide show regarding the Highland Canal as an agenda item for the next meeting. No action was taken.

Agenda Item #9: Committee and staff comments: Lauren presented a summary list of project updates needed, and that she can provide documents, old emails, etc., to anyone needing those things for their updates. There were comments regarding when the amount awarded is reduced and the need for a revised scope of work for the new amount and match, an updated proposed budget, and that we won't disburse funds until those things are provided.

Ron commented that Janet does a great job and it is appreciated. Other committee members agreed.

Agenda Item #10: Next meeting: June 1, 2018 (for possible action): The next meeting is scheduled for Friday, June 1st, at 8:00 a.m., and will be followed by the field trip. No action was taken.

Agenda Item #11: Public comment (limited to no more than three minutes per speaker): No members of the public were present, so no public comment was given.

Agenda Item #12: Adjournment (for possible action): The meeting adjourned at 10:52 a.m. No action was taken.

TRUCKEE RIVER FUND ADVISORY COMMITTEE
DRAFT MINUTES OF THE JUNE 1, 2018
MEETING OF THE BOARD OF DIRECTORS

The TRF Advisory Committee met on Friday, June 1, 2018, at Renaissance Hotel, 1 South Lake Street, Reno, NV 89501. Chair Phillips called the meeting to order at 8:05 a.m.

1. ROLL CALL

Members Present: Brian Bonnefant, Bill Bradley, Michael Cameron, Susan Lynn, Don Mahin, Ron Penrose, and *Janet Phillips.

Staff Present: John Enloe, Sonia Folsom and Lauren Renda.

Public: Marlene Olsen, GoodStanding

Members Absent: Mike Brisbin and Candace Elder.

A quorum was present.

*Chair Phillips left at 2:47 p.m.

2. DISCUSSION AND TOUR OF THE TRUCKEE RIVER SYSTEM

Chair Phillips asked for public comment: There was no public comment.

John Svahn, Truckee Donner Land Trust, showed the Committee the tree thinning (35-40 acres) accomplished around Webber Lake (Project #172) in the Lacey Meadows along Hennes Pass Road. The tree thinning addressed areas of disease and density, aiding in the prevention of catastrophic wildfires.

Lisa Wallace, Truckee River Watershed Council (TRWC) Executive Director, explained to the Committee how the funding received enabled the TRWC to fully implement, through additional federal grants, the Truckee Meadows Restoration project (Project #200) from inception to completion. The project focused on reducing erosion and sedimentation to the main stem Truckee River, by spreading out the canal, it now supports the wetlands and meadow vegetation.

Ms. Wallace also showed the Committee the progress made on the Big Chief: F4M Restoration Culvert Outflows project (Project #189). The project, in collaboration with Tahoe City Public Utilities District and the U.S. Forest Service, Lake Tahoe Basin Management Unit, is aimed at decreasing sedimentation, from 34 culverts, entering into the Truckee River in the first four miles (F4M) below the Tahoe Dam. The project built back the flood plan, reintroduced vegetation, and built stairs at the pull-outs along highway 89 which have now become access points.

Eben Swain, Truckee River Watershed Council Program Manager, explained how the Johnson Canyon Westside Restoration-Construction Implementation project (Project #171), by improving bank and channel stabilization, will improve water quality and reduce sediment going into Donner Lake and the

Truckee River. Mr. Swain stated they have identified 15 erosions hotspots that carry sediment into Gregory Creek which feeds directly into Donner Lake and have prioritized them into three areas. Phase I construction is scheduled for August 2018 and will take approximately 4-5 weeks, where Phase II construction is scheduled for 2019. John Enloe, TMWA Director of Natural Resources & Planning, noted that sediment removal from Donner Lake has become a significant task and expense for TMWA.

No action taken.

3. ADJOURNMENT

With no further discussion, Vice Chair Lynn adjourned the meeting at 3:32 p.m.

Approved by the Truckee River Fund Advisory Committee in session on _____.

Sonia Folsom, Recording Secretary

****Chair Phillips was present for agenda items 1 thru 2 only.***



KEEP TRUCKEE MEADOWS
BEAUTIFUL

PROPOSAL TO THE TRUCKEE RIVER FUND

Organization Name:		Keep Truckee Meadows Beautiful	
Type:	501(c)(3) EIN# 88-0254957	Governmental entity? No	
Address:	P.O Box 7412 Reno, NV 89510		
Project Name:	2019 Spring Invasive Weed Pull & Fall Truckee River Cleanup		
Amount requested: \$70,760		Website: www.ktmb.org	
This funding will be used to		Remove invasive weeds and trash from along the Truckee River corridor and its tributaries during KTMB's Great Community Cleanup and KTMB's Truckee River Cleanup Day, monitor the impact of current cleanup efforts, and engage more year-round cleanup support.	
Key People:	Director:	Christi Cakiroglu	
	Board Chair:	Kate Thomas	
	Project Contact:	Name:	Christi Cakiroglu and Lindsey Panton
		Position:	Executive Director and Program Manager
		Phone:	775-851-5185
		Fax:	N/A
Email:	christi@ktmb.org/lindsey@ktmb.org		
Organization Mission:	KTMB is dedicated to creating a cleaner, more beautiful region through education and active community involvement.		
Has your organization received other grants from the Truckee River Fund?			
Yes ☒ See attached page			

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☒ C. Projects that remove pollution from the Truckee River.
- ☒ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.
- ☐ E. Other projects that meet the evaluation criteria.



NARRATIVE

1. Specific project goals and measurable outcomes and how you will measure and report them.

Keep Truckee Meadows Beautiful (KTMB) is a 501(c)3 nonprofit that has been dedicated to beautification, advocating for a clean community, cleanups and education in the Truckee Meadows for over 25 years. KTMB works to create a cleaner, more beautiful area to increase the quality of life for all who live in and visit the Truckee Meadows. In 2019, KTMB will continue to build partnerships that work strategically to protect and conserve the Truckee River, while expanding the thriving litter and invasive weed removal projects along the Truckee River watershed.

Great Community Cleanup – Spring 2019

During the Spring 2019 Great Community Cleanup the following outcomes will be achieved:

- Provide 15 educational presentations that address the environmental and economic impacts of litter, invasive weeds and illegal dumping along the river and in the community at large;
- Recruit and coordinate a minimum of 125 volunteers to pull invasive weeds at weed sites;
- Remove 100 yards of weeds and 20 tons of trash from within the Truckee River watershed;
- Host cleanup event, and provide invasive weed, recycling and litter-reduction education to volunteers at cleanup sites, and during volunteer post-cleanup lunch with goal being to educate volunteers on "Zero Waste" and keep the event as close to "Zero Waste" as possible;
- Involve a minimum of 100 youth through partnerships with youth programs;
- Survey weed participants and analyze results to determine the success and impact of the event;
- Work with partners to identify and target a minimum of six invasive weed "hot spot" locations along Truckee River tributaries for weed removal and native plant restoration whenever possible, such as the planting of Sagebrush seedlings at the Pah Rah Trailhead during the 2018 Great Community Cleanup;
- Support accurate mapping of invasive weed zones as tracked by Nevada Land Trust (NLT) and Washoe Storey Cooperative Weed Management Authority (WSCWMA);
- Enhance marketing and outreach to attract Adopt-A-River groups to improve participation in the 2019 Great Community Cleanup;
- Expand stewardship and environmental awareness efforts by conducting teacher trainings so that educators can implement and use Waste, Watershed and Weed Warriors curriculum in the classroom;
- Continue KTMB's evidence based Litter Survey to maintain consistent Truckee River site evaluations. Sites are evaluated for trash when volunteers clean.

Truckee River Cleanup – Fall 2018

During the Fall 2019 Truckee River Cleanup the following outcomes will be achieved:

- Engage minimum of 700 volunteers in river cleanup, storm drain stenciling and weed removal projects;
- Remove 15-25 tons of trash and weeds from the river corridor at cleanup locations from Verdi to Lockwood;
- Work with area park staff to identify and wrap trees as needed along the river corridor;



- Host cleanup event, and provide invasive weed, recycling and litter-reduction education to volunteers at cleanup sites, and during volunteer post-cleanup lunch with goal being to educate volunteers on "Zero Waste" and keep the event as close to "Zero Waste" as possible;
- Maximize resources and community awareness efforts by stenciling a minimum of 100 storm drains in conjunction with Urban Watershed Awareness Day (as all drains flow to the river!);
- Involve a minimum of 100 youth through partnerships with youth programs;
- Survey participants and compile analyzed results to determine the success and impact of the event;
- Host a minimum of 20 "on the river" volunteers including kayakers and fly-fishers and WET team Emergency Response personnel as needed to remove debris from within the river;
- Spread Christmas tree mulch for soil erosion projects, wrap trees along river, and remove graffiti; as needed

2. Project location

For the Spring Great Community Cleanup, invasive weed locations within the Truckee River watershed will be determined by WSCWMA. The Truckee River Cleanup, which is typically scheduled for late September or early October follows the original Champions of the Truckee River "Streamkeepers Map," stretching from the Verdi Dam to Lockwood, including John Champion Park, Mayberry Park, Crystal Peak Park, Cottonwood Park, Oxbow Park, Dorostkar Park, Rock Park, Barbara Bennett Park, and other sections of the river. Storm drain stenciling on the day of the cleanup will be determined by local municipalities and watershed experts.

3. Project description

KTMB supports a clean and weed-free community by educating and informing residents and visitors about the importance of maintaining a healthy river and watershed by removing litter and noxious weeds. Local park staff report that weed removal is often the most challenging aspect of their job. With current staff reductions, the incorporation of weed removal prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB's Great Community Cleanup. The Great Community and Truckee River Cleanup activities will include:

- Volunteers removing invasive weeds at several hot spots along the Truckee River and its tributaries, as identified by weed experts at Nevada Land Trust and members of the WSCWMA.
- Producing key messaging about responsible river recreation and keeping the river clean; and
- Presenting to City and County NABS/CABS, churches, recreation/outdoor groups, city council and county commission meetings, service organizations, KTMB Beautiful Businesses, as well as K-12 children through our Weed, Water, and Waste Warriors programs, and on-site educational opportunities along the river and in Idlewild Park's Sensory Garden.

The Truckee River Cleanup is designed to address both the direct and immediate presence of weeds, litter and nonpoint pollution runoff, and the underlying causes of these challenges by educating and engaging the community. KTMB uses proven approaches to "Cleanups" that have been shown to save tax payers money. According to Keep America Beautiful "About 85 percent of littering is the result of people's attitudes.... Changing individual behaviors is the key to preventing litter — and environmental cues can make a difference." By engaging volunteers and community partners in this effort, KTMB is helping to better protect the water resources of the Truckee River.



4. Grant priorities

This project supports the TRF Grant Priorities V, VI, VII, and VIII – *Support to Rehabilitation of Local Tributary Creeks and Drainage Courses, Stewardship and Environmental Awareness, Meet Multiple Objectives, and Leverage Stakeholder Assets and Participation*. KTMB educates and informs residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities, habitats, and watershed; how litter and pollution are harmful to human health, wildlife, the local environment and economy; and collaborates to create a cleaner community while saving precious taxpayer dollars that would otherwise be spent on cleanup.

5. Permitting

Few permits are needed and for the most part cooperation has already been secured. Since 2005, the only required permits for KTMB's Great Community and Truckee River cleanups include health department permits for the post-event volunteer barbecues. These permits can easily be secured from the Washoe County Health Department 4-6 weeks prior to the event(s).

6. If future phases of the project will be needed, identify anticipated sources of funding:

The Truckee River Fund's annual support of KTMB's Great Community Invasive Weed Pull and Truckee River cleanups assists in maintaining the health of the Truckee River and its greater watershed. It provides opportunities for KTMB to engage partner agencies, municipalities, groups, foundations and caring citizens, and to leverage in-kind support and funding from other sources. In addition, KTMB's efforts with Nevada Land Trust to provide the leadership necessary to complete Phase I of the One Truckee River is building the partnerships, fundraising mechanisms, fundable projects and capacity to address not only the symptoms of Truckee River health (weeds, litter and nonpoint pollution runoff) but also the underlying problems (education, environmental awareness, and civic participation and stewardship) community-wide. The TRF funding will enhance our ability to build these capacities. KTMB's development team is dedicated to pursuing new and diverse sources of income to continue to support these programs well into the future.

7. Principals involved in leading or coordinating the project or activity:

KTMB is the principal coordinating agency for project implementation, management, volunteer recruitment and coordination. KTMB relies on the time and expertise of partners that include the Washoe County Health District, Washoe County Parks, City of Reno Parks, City of Sparks Parks and Recreation, The Nature Conservancy, Nevada Department of Agriculture, Nevada Department of Wildlife, Nevada Land Trust, Sierra Nevada Journeys, Reno-Sparks Indian Colony, Washoe Storey Cooperative Weed Management Authority, Truckee River Fly Fishers, Sagebrush Chapter of Trout Unlimited, and Washoe County Sheriff's Office. Former members of the Truckee River Yacht Club and Champions of the Truckee River continue to provide logistical and promotional support as needed.

8. Number of staff positions involved in project: Five Part-Time Staff

9. Number of volunteers involved in project and an estimated number of volunteer hours.

Great Community Cleanup: 100-250 volunteers

Estimated hours: 350-875 hours

Truckee River Cleanup: 500-700 volunteers

Estimated hours: 1,750-2,450 hours



10. Time Line

The timelines for 2019 GCC and TRC are the same as in past years. Details available on request.

Winter 2018-19: Meet with project partners to identify Great Cleanup locations and begin planning.

Spring 2019: Survey length of River on a four-point scale and create data points. Implement weed pull in May.

Spring/Summer 2019: Compile survey data from weed pull and re-survey. Begin planning for fall Truckee River Cleanup.

Fall/Winter: Hold Fall Truckee River Cleanup and re-survey length of river.

Fall/Winter: Host Waste Warriors Teacher Trainings for Waste, Weed and Watershed curriculum, typically in January and September.

11. Success

The success of this project will be measured in the following ways:

- 1,000 community volunteers engaged in trash and invasive weeds removal along the Truckee River and its tributaries during KTMB's Great Community and Truckee River cleanups in 2019;
- 200 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects;
- 15 Community and Adult education presentations;
- 15-25 tons of invasive weeds and trash will be removed from Truckee River and its watershed in 2019;
- 100 storm drains will be stenciled;
- Evidence Based Litter Survey conducted along length of the River to evaluate cleanup efforts;
- Improve Adopt-A-River participation in cleanup events

12. Grant match

Match amount to be provided:		\$97,772
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. Match is:	
	Cash	\$7,000 secured from The North Face \$7,500 secured from REI
	In-kind	\$83,272
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ☐ No ☒		
Description of matching funds/in-kind donations:	• Project Partners will provide a minimum of \$18,600 in staff time • Media partners will provide a minimum of \$1,500 for media buys. • KTMB is projecting \$52,440 in volunteer time at a rate of \$21.85/hour per individual and a minimum of 800 volunteers that will be used as a match. • Approximately \$7,282 in matching costs for equipment and supplies from various partners. • \$3,450 match for volunteer coordination efforts.	

Truckee River Fund Project Budget

Category	Justification	KTMB TRF Request	KTMB TRF Request	Cash & In Kind Total	TRF * In Kind	Total TRF Request
COORDINATION & IMPLEMENTATION						
Keep Truckee Meadows Beautiful	Project Partner, and Volunteer Management	Spring Weed Pull/AAR	Fall/Survey	\$0.00	\$27,000.00	\$27,000.00
Keep Truckee Meadows Beautiful	Personnel/Benefits/Payroll Taxes			\$0.00	\$4,000.00	\$4,000.00
Thruway Project Partner	Weed Project Identify, Monitor, Train, Supervision			\$0.00	\$2,000.00	\$2,000.00
Keep Truckee Meadows Beautiful	Mileage			\$500.00	\$1,000.00	\$500.00
Washoe County Parks	Staff Time, Materials & Equipment			\$2,500.00	\$2,500.00	\$0.00
City of Reno Parks	Staff Time & Equipment			\$4,500.00	\$4,500.00	\$0.00
Reno Fire Dept Water Entry Team	Softwater rescue technicians and give-aways			\$1,200.00	\$1,200.00	\$0.00
Truckee Meadows Watershed Committee	Staff Time, Materials & Equipment			\$4,000.00	\$4,000.00	\$0.00
City of Sparks Parks	Staff Time, Materials & Equipment			\$2,000.00	\$2,000.00	\$0.00
Nevada Department of Wildlife	Staff Time, Materials & Equipment			\$1,000.00	\$1,000.00	\$0.00
Reno Sparks Indian Colony	Staff Time, Materials & Equipment			\$1,000.00	\$1,000.00	\$0.00
Thruway Conservancy	Staff Time			\$500.00	\$500.00	\$0.00
City of Reno	Staff Time, Materials & Equipment			\$1,400.00	\$1,400.00	\$0.00
Thruway Face	Cash grant			\$7,000.00	\$7,000.00	\$0.00
REL	Cash grant			\$7,500.00	\$7,500.00	\$0.00
Volunteer Hours	800 volunteers x 3 hours x \$21.65/hour			\$52,440.00	\$52,440.00	\$0.00
				\$55,540.00	\$119,040.00	\$33,500.00
EQUIPMENT & SUPPLIES						
San-Hutts	United Site Services (\$55/urnt, 2 sinks, \$75/urnt, damage waivers and delivery fees \$300)			\$800.00	\$2,600.00	\$1,160.00
Dumpsters	Dumpsters vary each cleanup, along with discounts. Project the need for 16 dumpsters priced at \$500.			\$3,100.00	\$11,100.00	\$6,000.00
Garbage Bags	EP/Bestar - 30" x 36, 250/case, \$16.22/case, 40 x 48, 100/case, \$54.80, star seal on roll			\$900.00	\$1,000.00	\$800.00
KTMB Truck for Site Surveying/Event Implementation	Fuel & Maintenance/Mileage			\$400.00	\$400.00	\$700.00
Trash Pickers	FLINE - 32" (\$14/picker)			\$375.00	\$750.00	\$375.00
Project Supplies	Tools, tree wrap, paint, masks, gloves, etc.			\$400.00	\$1,950.00	\$1,550.00
Project Posters	NV Energy donation 100 posters			\$227.00	\$227.00	\$0.00
Green Waste Composting	\$6/year - donated by RT Dornovan			\$1,060.00	\$1,060.00	
				\$7,282.00	\$17,867.00	\$10,575.00
VOLUNTEER COORDINATION						
Volunteer Appreciation BBQ, Snacks, Coffe	Catered by project partners, lunch, snacks, coffee, etc.			\$500.00	\$500.00	\$500.00
Event Signage	500C - 24"x18" double-sided, includes H stakes & 24" x 6" Arrow signs \$20/sign			\$200.00	\$700.00	\$700.00
Reusable Aluminum Bottles	Branded Screen Printing (HK-201, 24 oz, \$4.49/bottle w/ \$500 discount)			\$1,500.00	\$5,000.00	\$5,000.00
Health Permit for Picnic	Washoe County Health District			\$45.00	\$50.00	\$50.00
Volunteer Project Leader Tech Shirts	Branded Screen Printing (Sport Tek Dri-Mesh, LS Competitor Tee, \$13.50/L & \$17.35/L, \$89/shirt)			\$2,000.00	\$4,000.00	\$4,000.00
Volunteer wristbands	Debossed (112" - Youth, Green)			\$200.00	\$400.00	\$400.00
Public Education	RadioTV/PSA/Post Cards/Bumper Stickers			\$4,500.00	\$11,500.00	\$10,350.00
Zero Waste Supplies	Serving ware, utensils, signage			\$700.00	\$1,400.00	\$1,400.00
Volunteer Snacks	Nature's Bakery, KIND, Tahoe Trail Bars, Soda			\$1,000.00	\$2,450.00	\$0.00
Volunteer Food	Donated by Save Mart				\$4,950.00	\$22,800.00
						\$22,940.00
Stewardship and Environmental Awareness	2 teacher trainings			\$3,745.00	\$3,745.00	\$3,745.00
						\$70,760.00
TOTAL DIRECT CHARGES				\$31,640.00	\$99,120.00	\$164,760.00

Funding received from the Truckee River Fund

Date Awarded	August 2017
Project title:	TRF #193 Great Cleanup/River Cleanup
Amount of Award:	\$69,760
Date Awarded	August, 2016
Project title:	TRF #176 Great Cleanup/River Cleanup
Amount of Award:	\$60,625
Date awarded:	October 22, 2016
Project title:	TRF #165 Truckee River Cleanup/Invasive Weed Pull
Amount of Award:	\$48,325
Date awarded:	February, 2015
Project title:	TRF #156 Phase I Truckee River Corridor Management Plan
Amount of Award:	\$90,000
Date awarded:	September, 2014
Project Title:	TRF #154 Invasive Weed Pull & River Cleanup
Amount of Award:	\$46,000
Date awarded:	October 2013
Project Title:	TRF 126: Truckee River Youth Education/Invasive Weed Pull/Cleanup 2014
Amount of Award	\$57,050
Date awarded:	September 2012
Project title:	Truckee River Cleanup 2013
Amount of Award:	\$46,450
Date awarded:	October 2011
Project title:	TRF #89 Truckee River Cleanup 2012
Amount of Award:	\$44,950
Date awarded:	November 2010
Project title:	#82 Truckee River Cleanup May 2011 Invasive Weed Pull and September 2011 Truckee River Cleanup Day
Amount of Award:	\$42,900
Date awarded:	December 2009
Project title:	Invasive Weed Pull May 2010, River Cleanup Sep 2010
Amount of Award:	\$42,050
Date awarded:	February 2009
Project title:	Truckee River Cleanup Day, September 2009
Amount of Award:	\$26,975
Date awarded:	January 2008
Project title:	Truckee River Cleanup Day, September 2008
Amount of Award:	\$25,604.85
Date awarded:	November 2006
Project title:	Truckee River Cleanup Day, September 2007
Amount of Award:	\$24,730
Date awarded:	July 2006
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$13,175
Date awarded:	December 2005
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$9,402.50

Supplemental Page to Truckee River Fund 2018 Summer Submission

Cover Sheet

Organization Name:	Sierra Nevada Journeys																				
Type:	501(c)(3) EIN#01-0881587	Governmental entity? No																			
Address:	190 E. Liberty St. Reno, NV 89501																				
Project Name:	Watershed Education Initiative																				
Amount requested: \$36,207	Website: www.sierranevadajourneys.org																				
This funding will be used to (complete this sentence with a max of 2 sentences):	Deliver high-quality, experiential watershed education programs based on local issues associated with the Truckee River, such as water quality and invasive species while empowering youth to protect and enhance the quality of the Truckee River. Significantly increase parent engagement, citizen science, and volunteer components to increase the long-term sustainability of our Watershed Education Initiative, thereby fostering protection of the primary water source for our community.																				
Key People:	Director:	Eaton Dunkelberger, CEO																			
	Board Chair:	Mark Burrell																			
	Project Contact:	Name:	Sean Hill																		
		Position:	Education Director																		
		Phone:	775-355-1688																		
		Fax:	775-329-1689																		
		Email:	sean@sierranevadajourneys.org																		
Organization Mission:	Sierra Nevada Journeys' mission is to deliver innovative outdoor, science-based education programs for youth to develop critical thinking skills and to inspire natural resource stewardship.																				
Has your organization received other grants from the Truckee River Fund? Yes X No (please see page 7)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>March 2018</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$46,376</td> </tr> <tr> <td>Date awarded:</td> <td>June 2017</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$32,998</td> </tr> <tr> <td>Date awarded:</td> <td>March 2017</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$28,446</td> </tr> </table>			Date awarded:	March 2018	Project title:	Watershed Education Initiative	Amount of Award:	\$46,376	Date awarded:	June 2017	Project title:	Watershed Education Initiative	Amount of Award:	\$32,998	Date awarded:	March 2017	Project title:	Watershed Education Initiative	Amount of Award:	\$28,446
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Date awarded:	March 2017																				
Project title:	Watershed Education Initiative																				
Amount of Award:	\$28,446																				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
☐ C. Projects that remove pollution from the Truckee River.
☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
☒ E. Other projects that meet the evaluation criteria.

¹ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria.lrenda@nevadafund.org; 775-333-5499.

NARRATIVE REQUIREMENTS

1. Specific project goals and measurable outcomes and how you will measure and report them.

During the past eight years, Sierra Nevada Journeys' (SNJ) Watershed Education Initiative (WEI) has impacted over 7,000 students and 450 educators. This has been made possible in no small part thanks to the generous support of the Truckee River Fund. WEI educates students about the local watershed including human impacts on the watershed, water quality, and watershed protection. While in-class and field-based lessons reach students and educators, WEI's additional outreach components serve to engage families and community volunteers. Through WEI, we will successfully meet the following objectives:

Outputs	Outcomes
Deliver WEI to 875 K-8th grade students from throughout northern Nevada.	80% of students can correctly identify, label, and diagram the Truckee River Watershed.
All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries.	70% of students will use knowledge of storm drains to describe how individuals and communities can protect watersheds.
97 parents and community members volunteer for the program and serve 583 educational service hours.	80% of students will define what happens to rainwater and associated non-point source pollutants after they enter a storm drain.
Provide 32 teachers with WEI extension lessons.	95% of students participating in "Hands in the River" curriculum complete a Truckee River issue case study on water quality in the watershed.
	80% of students will describe two ways to determine the health of the local watershed.
	90% of teachers will report that the program is helping to build critical thinking skills among their students.

Methods to measure outcomes: Pre- and post-assessments are completed by each participating student. Each teacher completes a survey. Both are scored and compiled by SNJ staff. A third-party consultant from the NV Department of Education's assessment office designed the assessment tool.

Methods to measure outputs: SNJ's Education Department manages an internal database that tracks details on participating students, schools, parents and volunteers.

- 2. Project location:** The three main field sites for this program will be the Truckee River at the McCarran Ranch Preserve, (managed by The Nature Conservancy in Nevada) Galena Creek Regional Park (managed by Washoe County Regional Parks and Open Space), and the Oxbow Nature Study Area (managed by the Nevada Department of Wildlife). These locations are convenient and close to home for local students, increasing their sense of ownership, awareness and comfort with accessible nature areas.

3. Project description.

Why WEI? A recent study from The Nature Conservancy reveals that students who have had a personal experience in nature are:

- Significantly more likely to express concern about water pollution, air pollution, global warming, and the condition of the environment;
- More than twice as likely to "strongly agree" that protecting the environment is "cool";
- More than twice as likely to consider themselves a "strong environmentalist,"; and

- Substantially more likely to express interest in studying the environment in college, working in a job related to nature, or joining an environmental club at their school.²

Unfortunately, the study also notes that these personal experiences are increasingly uncommon reporting that, “The vast majority of today’s children use a computer, watch TV, or play video games on a daily basis, but only about 10 percent say they are spending time outdoors every day.” Through WEI, SNJ strives to provide local youth with opportunities to have a meaningful experience outdoors, thereby increasing their likelihood to value nature, engage with it, and feel empowered to care for it.

Through this funding, SNJ will serve 875 students in 32 classrooms throughout northern Nevada. Conducted over a four-week period, WEI includes three in-class lessons, one field-study experience, pre- and post-assessments, classroom extension lessons for teachers, and family and community engagement. Curriculum developed and delivered by SNJ’s team of credentialed teachers aligns to state and national standards and the North American Association for Environmental Education’s Guidelines for Excellence.

SNJ’s Watershed Education Initiative Overview

The **school-based** component includes three in-class lessons (4.5) hours of engaging instruction. Students participate in hands-on lessons that incorporate the Truckee River watershed, the water cycle, point and non-point source pollution, invasive species, sources and impacts of erosion, water conservation and stewardship.

The **field-based** component includes approximately one day of outdoor science education as students hike around the Truckee or one of its tributaries. Students seek clues related to the health of the watershed and determine water quality by collecting and identifying macro-invertebrates or conducting chemical tests such as pH, dissolved oxygen, or turbidity. Students use evidence to make a conclusion about the health of the Truckee River Watershed.

SNJ provides five ready-to-use classroom **extension lessons for teachers** that help students prepare for and review learning objectives as well as extend and reinforce each SNJ-directed lesson. By explicitly modeling teaching methods and reinforcing with SNJ’s classroom lessons we strive to support educators and multiply the effects of our student programming.

To encourage **family engagement**, SNJ provides teachers with a template to email parents with a summary and pictures of their child’s experience after each unit along with information for family-based discussion of the curriculum. This increases parent involvement, which allows individuals within families to reinforce the attitudes, motivations, skills, and behaviors learned and to foster parent–student communication about watershed-related topics.

The **volunteer component** of the program builds our capacity to involve the local community and broadens accessibility to our programming for low-income schools by helping to keep costs low. Volunteers, who are primarily comprised of retired educators, naturalists, and parent chaperones, also consistently report learning tremendously in their participation with WEI.

4. Grant priorities.

WEI is an education program that addresses water, water quality and watershed protection for K-8th grade students, directly aligning with grant priority VI: *Stewardship and Environmental Awareness*. Students gain first-hand experience with the Truckee River, explore human impacts on their water source, and obtain skills and knowledge to help protect the watershed. The overall long-term program impacts include:

- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Teachers use extension lessons and implement more hands-on exploration of the watershed. Parents and community members engage in watershed education directly through WEI volunteer

² The Nature Conservancy, Connecting America’s Youth to Nature, 2012 Retrieved from: <http://www.nature.org/newsfeatures/kids-in-nature/youth-and-nature-poll-results.pdf>

- The health of the Truckee River watershed and local ecosystems improves as students and their families adopt environmental stewardship practices that help reduce water pollution and human impacts.

5. **Permitting.** - N/A

6. **Future land use.** – N/A

7. **If future phases of the project will be needed, identify anticipated sources of funding.** - N/A

8. Principals involved:

Credentialed science educators on the SNJ staff will be directly responsible for coordination and delivery of watershed education programs. Sean Hill, SNJ's Education Director, will oversee the implementation of WEI. Sean is a former science teacher and holds a Bachelor of Science degree from Montana State University and a Master of Science degree in Human Dimensions of Natural Resources from Colorado State University. His passion for outdoor science education was inspired by his service as a Graduate Fellow for the Walking Mountains Science School in Avon, Colorado, and from his time spent as a science teacher in the inner-city during his service with Teach For America.

9. Number of **staff positions involved** in project: Fulltime **3** Part-time **6**

10. Number of **volunteers involved:** **97** volunteers (including field educators and parent volunteers) will donate **583** volunteer hours during WEI's field-study portion of the program, increasing parents and community member access to watershed education.

11. Time Line of Project.

Deliverables	2018					
	July	Aug	Sept	Oct	Nov	Dec
Recruitment/Scheduling: SNJ outreach efforts are continuous. Outreach is now underway for the spring semester. SNJ targets schools that participated in watershed programming in the past and new schools that have not received WEI.						
Program Delivery: SNJ instructors will deliver engaging watershed education lessons to 875 students through school-based and field-based programs.						
Evaluation: SNJ staff will compile student assessment data throughout the grant period. These results will inform any changes to the curriculum to ensure effective programming in the future.						
Final Report: Submit the final report to the Community Foundation of Western Nevada. This report will include a summary of the work completed, student assessment data, and a budget update.						

12. Success.

Outputs	Tracking
Deliver watershed education to 875 K-8th grade students from throughout northern Nevada. All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries. 97 parents and community members volunteer for the program and serve 583 service hours. Provide 32 teachers with WEI extension lessons.	Internal SNJ database – Updated regularly throughout the year
Outcomes	Tracking
80% of students can correctly identify, label, and diagram the Truckee River Watershed. 70% of students will use knowledge of storm drains to describe how individuals and communities can protect watersheds. 80% of students will define what happens to rainwater and associated non-point source pollutants after they enter a storm drain. 95% of students participating in “Hands in the River” curriculum complete a Truckee River issue case study on water quality in the watershed. 80% of students will describe two ways to determine the health of the local watershed. 90% of teachers will report that the program is helping to build critical thinking skills among their students.	Pre- and post-assessments – reviewed after the end of each program and presented in report at end of grant period Teacher surveys

13. Grant Match

Match amount to be provided:		\$15,155 (30% of requested funds)
Match details:	Match is:	
	Cash	\$ 2,917
		\$12,238
	In-kind	Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.
		For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No <u>X</u>
Description of matching funds/in-kind donations:	In-kind match provided by field educator volunteers and parent volunteer hours.	

14. Project Budget
Watershed Education Initiative (WEI) Budget

Item	Description	Students	Total	SNJ Match	Request
Program Coordinator/ Instructor	Program Instructor (\$18.15/hour). In-class instruction (5 hours/class), field study (5 hours/class), Program prep and wrap up (10 hours/class), travel time (5 hours/class) = 25 hours per class / 27 kids per class	875	\$14,705	\$0	\$14,705
Education Director	Education Director (\$35.00/hour). Coordination (2 hours/class), Parent volunteer/chaperon communication and scheduling (1 hour/class), Field-study instruction (4.5 hours/class), Extension lessons (1 hour/class), Observations and management (3 hours/class) = 11.5 hours per class / 27 kids per class	875	\$13,044	\$0	\$13,044
Director of Communications	Director of Communications (\$28.00/hour). Recruitment and extension lesson delivery = 2 hours per plan / 27 kids per class	875	\$1,815	\$0	\$1,815
Volunteers	An average of 3 volunteers per field-study dedicate 6 hours to helping guide and facilitate the program = 18 hours per class / 27 kids per class. Independent Sector Value of Volunteer time in Nevada = \$20.98/hour	875	\$12,238	\$12,238	\$0
Printing Costs	\$1 per student. Field-science journals are used by students and are an integral component to the education program. SNJ prints teacher packets with detailed information about delivery and implementation of the program, as well as student assessments for before and after each unit.	875	\$875	\$0	\$875
Program Supplies	\$1 per student. Funds supplies (pencils, glue sticks, popsicle sticks, etc.) used during hands-on student activities.	875	\$875	\$0	\$875
Travel	Avg. 15 miles roundtrip * 4 (3 class, 1 field) = 60 miles * .54 per mile (federal rate of reimbursement) per class / 27 kids per class	875	\$1,050	\$0	\$1,050
Student Transportation (School Bus)	Average \$90/trip per class / 27 kids per class	875	\$2,917	\$2,917	\$0
Overhead Costs	13% indirect/overhead rate (rent, utilities, phone, etc.) on personnel only.		\$3,843	\$0	\$3,843
			\$51,362	\$15,155	\$36,207

Cover Sheet

Date: July 24, 2018

Organization Name:	Truckee Meadows Parks Foundation																				
Type:	501(c)(3) EIN# 45-4837735	Governmental entity? Y/ N																			
Address:	50 Cowan Drive, Reno, NV 89509																				
Project Name:	Truckee Meadows Nature Study Area Project: Planning Phase																				
Amount requested: \$54,770	Website: www.tmparksfoundation.org																				
This funding will be used to (complete this sentence with a max of 2 sentences):	create a community-supported master plan to repurpose the former Rosewood Lakes Golf Course into the Truckee Meadows Nature Study Area: a high-quality wetland habitat that will serve as an outdoor learning laboratory and public recreational park.																				
Key People:	Director:	Nathan Daniel																			
	Board Chair:	Elisa Davis																			
	Project Contact:	Name:	Nathan Daniel																		
		Position:	Executive Director																		
		Phone:	(775) 453-0698																		
		Fax:	N/A																		
		Email:	nate@tmparksfoundation.org																		
Organization Mission:	Truckee Meadow Parks Foundation strives to enhance the quality of life for all citizens of the greater Reno-Sparks metropolitan area by ensuring the long-term sustainability and improvement of our parks. We accomplish this by offering park-based educational and recreational programs designed to increase community-wide awareness, appreciation, and stewardship of our parks.																				
Has your organization received other grants from the Truckee River Fund? Yes No (use additional page if necessary)	If yes, <table border="1"> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> </table>			Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:	
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DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
☐ C. Projects that remove pollution from the Truckee River.
☒ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
☒ E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

³ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



Truckee Meadows Nature Study Area Project: Planning Phase

1. Specific project goals and measurable outcomes and how you will measure and report them.

The overarching goal of the Truckee Meadows Nature Study Area (TMNSA) project is to repurpose the former Rosewood Lakes Golf Course into a high-quality wetland habitat that serves as an outdoor learning laboratory where people come to understand the value of the Truckee River watershed. The Parks Foundation has received a \$74,968 AmeriCorps planning grant for this purpose. During this initial phase, a wetland restoration program director will lead a team to create a community-supported master plan for TMNSA. This will detail the site configuration including restoration objectives, as well as amenities to be used for educational and recreational activities. The plan will include public charrettes to gauge community interest and elicit citizen input. The plan will also identify trail connections to multi-use paths including the Southeast Connector. In August 2019, this initial planning phase will end and the Parks Foundation will present the City-of-Reno-approved TMNSA plan, final report, and self-evaluation to the Truckee River Fund and the Washoe Storey Cooperative Weed Management Area members.

2. Project location.

The former Rosewood Lakes Golf Course is a 219-acre property owned by the City of Reno. It is located on the east side of Reno between the Reno-Tahoe International Airport and the Virginia Range. The parcel contains approximately 60 acres of wetland and is contiguous with Steamboat Creek, the most important tributary to the Truckee River (Horton 1997). The property is in a state of disrepair with no environmental management plan. Approximately 145 acres of the property are infested with target noxious weeds. See page eight for the proposed Truckee Meadows Nature Study Area site map.

3. Project description.

The property formerly known as the Rosewood Lakes Golf Course is one of the last vestiges of wetland habitat in the Truckee Meadows. The proposed Truckee Meadows Nature Study Area (TMNSA) has been invaded by many non-native plant species listed on the Nevada Noxious Weed List and the Washoe Storey Cooperative Weed Management Area (WSCWMA) high-priority list including, but not limited to, tall whitetop (*Lepidium latifolium*), poison hemlock (*Conium maculatum*), and puncture vine (*Tribulus terrestris*). These species have been identified by Nathan Daniel, the Parks Foundation executive director, active member of the WSCWMA, and an expert in plant identification who has attended both the Riparian Plant Identification training by Jerry Tiehm and the Proper Functioning Condition Assessment for Integrated Riparian Management classes in 2018.

With funding from a secured AmeriCorps planning grant and the requested \$54,770 grant from the Truckee River Fund, the Parks Foundation will hire a wetland restoration program director, who will lead the effort to create the TMNSA master plan and obtain additional funding for later operational phases of the project. This program director will attend formal weed identification and management training after the start of his or her contract. All project staff will receive education and training about weed prevention best management practices. This planning grant will run from September 2018 through August 2019.



TRUCKEE MEADOWS PARKS FOUNDATION

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AWARENESS • APPRECIATION • STEWARDSHIP

The main focus of the subsequent operational phase will be to restore this wetland area by removing undesirable, invasive species while concurrently planting and caring for desirable, competitive species — a proven methodology for native species recovery (Flory and Clay 2009). As this is a sensitive wetland area, no pesticides will be used for this project. The Parks Foundation will place 10 full-time AmeriCorps members as wetland restoration technicians. The AmeriCorps members will receive education and training about weed prevention best management practices. Their primary service activity will be the removal of noxious plant species via manual pulls and the restoration of native plants on the property. The members will begin by establishing long-term research plots and conducting an extensive baseline survey that will catalogue species richness, abundance, and environmental data including soil texture, structure, and moisture. Members will set up a series of photo-point sites to qualitatively assess the cumulative effects of the restoration efforts. They will also clear unnatural and natural debris, construct bird blinds, trails, a boardwalk, interpretive signage, and create and maintain recreational areas and similar amenities.

Over the course of the operational years, environmental data will be collected, analyzed and presented in the final report for the future AmeriCorps and Truckee River Fund grants, assuming subsequent grants are awarded. These analyses will consist of a multi-year monitoring plan to assess the success of control efforts, as AmeriCorps grants typically run on three-year cycles. Data will also be captured in GIS and provided to the Nevada state weed mapper throughout the project. Furthermore, Steamboat Creek runs contiguously with this parcel, and therefore, restoration of this land reduces the potential for weed spread to the Truckee River and adjacent properties.

Additionally, the creation and management of TMSNA will provide an ideal site for the Parks Foundation's existing Student Stewards Program to engage thousands of economically underserved Washoe County students in water quality education and weed awareness programs. Beyond that, other local agencies and organizations will be able to access the site for their educational programs. This infrastructure improvement project to restore an invaluable wetland area located on a public park will not only restore the habitat, but will serve to improve water quality, stewardship, and weed education in the greater Reno-Sparks community.

4. Grant priorities.

The Truckee Meadows Nature Study Area (TMNSA) project advances priorities II, V, VI, VII, and VIII through the implementation of the planning phase and associated future phases. Priority II refers to watershed improvements such as reducing erosion or sediment discharges to the River. This project will reduce erosion through wetland rehabilitation (Birch et al. 2004) along Steamboat Creek, designated 303d/ impaired waters. Additionally, this rehabilitated wetland system is expected to reduce total nitrogen loading in the Truckee River, which would then reduce algae as a suspended solid (Chavan et al. 2008). As such, the TMNSA project advances priority V because it supports water quality improvement in Steamboat Creek. The TMNSA project advances priority VI in that the Parks Foundation will use TMNSA as an outdoor classroom where economically disadvantaged students who attend our Student Stewards Program will learn about water, water quality, and watershed protection. The TMNSA project



TRUCKEE MEADOWS PARKS FOUNDATION

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AWARENESS • APPRECIATION • STEWARDSHIP

will involve multiple stakeholders, including the City of Reno, Nevada Department of Wildlife, Nevada Land Trust (One Truckee River), and Lahontan Audubon Society to encourage collaborative efforts in all aspects of river water quality, watershed protection, source water protection and species enhancement, and to promote the missions of all involved agencies, thereby advancing priority VIII. Furthermore, the Parks Foundation is awaiting the approval of a National Park Service grant that will provide technical assistance to engage community partners and stakeholders in the process of developing a master plan for TMNSA.

5. Permitting.

The City of Reno is in the process of preparing a no-cost permit to allow Truckee Meadows Parks Foundation to manage the site of the future Truckee Meadows Nature Study Area. No other permitting is required for this initial planning phase. Further permitting requirements will be assessed as a component of the planning.

6. Future land use.

There are currently no foreseeable zoning, land use, or development plans that may affect the TMNSA project.

7. Future phases.

Following the planning phase, the Parks Foundation will submit an AmeriCorps operational grant to begin in September 2019. This grant should provide approximately \$210,000 in federal funds annually to support the Truckee Meadows Nature Study Area. The Parks Foundation intends to apply for a subsequent Truckee River Fund grant to assist in matching the operational grant in 2019. The total annual match will be approximately \$90,000. The Parks Foundation is prepared to apply to various regional grantors to support the operational phase of this project.

8. Principals involved.

Truckee Meadows Parks Foundation executive director, Nathan Daniel, and wetland restoration program director (start date September 2018) will be the principals involved in the coordination of the project.

9. Staff positions involved.

Full time (1): Wetland restoration program director (100%)

Part-time (3): Special programs manager (50%), development officer (25%), executive director (25%)

10. Volunteers involved.

In order to gauge interest in the repurposing of the former Rosewood Lakes Golf Course, the planning phase will involve community members' input during public charrettes. During the operational phase of this project, the 10 wetland restoration technician AmeriCorps members will serve alongside



TRUCKEE MEADOWS PARKS FOUNDATION

08-17-18 TRF Agenda Item 9

AWARENESS • APPRECIATION • STEWARDSHIP

community volunteers who will be recruited and managed by the Parks Foundation's wetland restoration program director and volunteer and outreach coordinator AmeriCorps VISTA.

11. Timeline.

- August 2018: Truckee Meadows Parks Foundation begins use of the former Rosewood Lakes Clubhouse as office space.
- September 2018: Wetland restoration program director begins working at the Parks Foundation.
- October 2018: Assuming the National Park Service (NPS) approves our grant application, a NPS team will assist in developing the site master plan.
- January 2019: Public charrettes to garner community input will commence.
- February 2019: The Parks Foundation development team will submit an application for the AmeriCorps State and National Competitive Operational Grant to support the TMNSA project.
- June 2019: Ten-year lease with two five-year extensions for use of the TMNSA property approved between the City of Reno and Truckee Meadows Parks Foundation.
- July 2019: Publication of the TMNSA master plan.
- August 2019: The initial planning phase will end and the Parks Foundation will deliver the City-of-Reno-approved TMNSA plan, final report, and self-evaluation to the Truckee River Fund and the Washoe Storey Cooperative Weed Management Area members.
- September 2019: Assuming approval of the operational grant, the Parks Foundation will place 10 full-time AmeriCorps members at TMNSA where they will begin to improve the site's infrastructure.

12. Success.

With the publication of the TMNSA master plan, the Parks Foundation will begin an AmeriCorps grant and move on to the operational phase of the project.

13. Grant match.

In June 2018, Truckee Meadows Parks Foundation secured a \$74,968 planning grant from Nevada Volunteers to prepare a new AmeriCorps State and National operational grant that will focus on improving the infrastructure of this future public nature study area. The project total is \$129,738 with the remaining \$54,770 being the request amount for Truckee River Fund. Therefore, this project will be matched with 58% secured funds. More than 50% of on-the-ground control costs for both the planning and operational phases will be contributed by project cooperators.

14. Project Budget.

Please see page 6.



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP

08-17-18 TRF Agenda Item 9

TRUCKEE MEADOWS NATURE STUDY AREA PROJECT BUDGET

Budget Item Description	TRF \$	Other Funding Name	Match \$	Total
Truckee Meadows Parks Foundation Program Staff (2 FTE)	\$38,400	AmeriCorps Planning Grant	\$44,600	\$83,000
Staff Fringe Benefits (2 FTE) (FICA, Workers Comp, Health Reimbursement, Simple IRA)	\$9,210	AmeriCorps Planning Grant	\$8,460	\$17,670
Staff Travel & AmeriCorps Annual Conference	\$0	AmeriCorps Planning Grant	\$2,416	\$2,416
Equipment (Utility Vehicle)	\$0	AmeriCorps Planning Grant	\$7,400	\$7,400
Supplies (Trimble GPS Unit, Program Director Computer, Field Supplies, Fuel for Utility Vehicle)	\$0	AmeriCorps Planning Grant	\$5,881	\$5,881
Landscape Architect Consultant for Site Footprint	\$0	AmeriCorps Planning Grant	\$2,400	\$2,400
Staff Background Checks	\$0	AmeriCorps Planning Grant	\$65	\$65
Administrative Overhead (Utilities, Insurance, Repairs, Telephone, Internet, etc.)	\$7,160	AmeriCorps Planning Grant	\$3,746	\$10,906
TOTAL	\$54,770		\$74,968	\$129,738

Grant Match

Match amount to be provided:	\$ 74,968					
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. Match is: <table border="1" data-bbox="397 432 1365 600"> <tr> <td data-bbox="397 432 527 464">Cash</td> <td data-bbox="527 432 1365 464">\$ 74,968</td> </tr> <tr> <td data-bbox="397 464 527 600">In-kind</td> <td data-bbox="527 464 1365 600">\$</td> </tr> </table> Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match. For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ☒ No ☐		Cash	\$ 74,968	In-kind	\$
Cash	\$ 74,968					
In-kind	\$					
Description of matching funds/in-kind donations:	In June 2018, Truckee Meadows Parks Foundation secured a \$74,968 planning grant from Nevada Volunteers to prepare a new AmeriCorps State and National operational grant that will focus on improving the infrastructure of this future public nature study area. The project total is \$129,738 with the remaining \$54,770 being the request amount for Truckee River Fund. Therefore, this project will be matched with 58% secured funds.					

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization's name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Nonprofits submit:

- ☒ Last audited financial statements if your organization has been audited
- ☒ List of Board of Directors
- ☒ Copy of agency's IRS 501(c)(3) Tax Determination Letter
- ☒ Copy of the agency's most recent IRS Form 990

Governmental entities submit:

- ☐ Departmental budget in lieu of audited financial statements

08-17-18 TRF Agenda Item 9



PARCEL INFO
6800 Pembroke Dr.
Reno, NV 89502
APN: 021-160-44
Acreage: 219.33



 Truckee Meadows Parks Foundation Managed Nature Study Area

 Truckee Meadows Nature Study Area Office



TRUCKEE MEADOWS PARKS FOUNDATION

08-17-18 TRF Agenda Item 9

AWARENESS • APPRECIATION • STEWARDSHIP

Truckee Meadows Nature Study Area Project Works Cited

- Birch, G.F., Matthai, C., Fazeli, M.S. et al. 2004. Efficiency of a Constructed Wetland in Removing Contaminants from Stormwater. *Wetlands* 24: 459.
- Chavan, P.V., Dennett, K.E., Marchand, E.A. et al. 2008. Potential of Constructed Wetland in Reducing Total Nitrogen Loading into the Truckee River. *Wetlands Ecology and Management* 16: 189.
- Flory, S.L. and Clay, K. 2009. Invasive Plant Removal Method Determines Native Plant Community Responses. *Journal of Applied Ecology* 46: 434-442.
- Horton, G. 1997. *Truckee River Chronology: A Chronological History of Lake Tahoe and the Truckee River and Related Water Issues*. Nevada Division of Environmental Protection: I-10.



Organization Name:	City of Reno																				
Type:	EIN#88-6000201	Governmental entity? Yes																			
Address:	P.O. Box 1900, Reno NV 89505																				
Project Name:	2 nd Truckee River Cleanup Crew																				
Amount requested: \$23,472	Website: www.reno.gov																				
This funding will be used to (complete this sentence with a max of 2 sentences):	Provide a SECOND dedicated crew to remove trash, debris, noxious weeds and overgrowth from the banks of Truckee River and direct tributaries within City of Reno. This will expand current efforts from 4 days to 7 days per week (Sat – Mon).																				
Key People:	Director:	Andy Bass, Director, Parks, Recreation and Community Services																			
	Board Chair:	Hillary Schieve, Mayor																			
	Project Contact:	Name:	Jeff Mann																		
		Position:	Parks Manager																		
		Phone:	775-334-2270																		
		Fax:	775-334-2471																		
		Email:	mannj@reno.gov																		
Organization Mission:	Provide exceptional recreational experiences for the Reno Community through facilities, programs and events that focus on safety, wellness, social and cultural benefits, which are sustainable, and enhance the quality of life and economic benefits for all.																				
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>See Attached List</td> </tr> <tr> <td>Project title:</td> <td></td> </tr> <tr> <td>Amount of Award:</td> <td></td> </tr> <tr> <td>Date awarded:</td> <td></td> </tr> <tr> <td>Project title:</td> <td></td> </tr> <tr> <td>Amount of Award:</td> <td></td> </tr> <tr> <td>Date awarded:</td> <td></td> </tr> <tr> <td>Project title:</td> <td></td> </tr> <tr> <td>Amount of Award:</td> <td></td> </tr> </table>			Date awarded:	See Attached List	Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:	
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DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☒ C. Projects that remove pollution from the Truckee River.
- ☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- ☐ E. Other projects that meet the evaluation criteria.

¹ For proposals related to weed control/eradication, contact Tracy Turner at the Community Foundation of Western Nevada for additional criteria. tturner@nevadafund.org; 775-333-5499.



NARRATIVE REQUIREMENTS

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

1. **Specific project goals and measurable outcomes and how you will measure and report them.**
 - Goals:
 - i. Remove trash and debris from the banks of the Truckee River within Reno's city limits, focusing on public property along the Truckee River Path, including City, County and State property.
 - ii. Improve these areas so that our community members feel safe and comfortable when using the river areas.
 - Outcomes:
 - i. Results will be measured by number of bags of trash and debris, shopping carts, posts, appliances, furniture and other materials removed from the project area.
2. **Project location.** The project location will be the banks of the Truckee River within Reno's city limits, with specific emphasis along the Truckee River Path. The upper limit will be the White Fir subdivision; the lower limit will be just below Telegraph Road. Work will primarily be on public property (City, County and State) within Reno city limits, and may also include certain private properties with owner permission. These will primarily include adjacent business, railroad and owner association property.
3. **Project description.** Include site map and aerial photos if applicable/possible. Maps and photos must fit on 8-1/2" x 11" paper. See attached map.
4. **Grant priorities.** Explain how the proposed project advances the TRF's grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative. This request supports Priority VI – Stewardship by funding a crew dedicated to remove trash, litter, illegal campsites and other refuse along the banks of the Truckee River and direct tributaries within Reno City limits, primarily upstream of the Glendale Treatment Plant.
5. **Permitting.** Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget. Permits are not required. In the event any site cleanup requires use of equipment below the mean high water line, we can proceed using the Carson-Truckee Water Conservancy's encroachment permit with prior notice.
6. **Future land use.** List any known or foreseeable zoning, land use, or development plans that may affect your proposed project. None; most work shall be on City or other governmental owned property zoned for parks, open space or public facility.
7. If **future phases** of the project will be needed, identify anticipated sources of funding. N/A. Staff will seek permanent funding in the FY 2019/20 budget for future years.
8. **Principals involved** in leading or coordinating the project or activity.
 - Jeff Mann, Parks Manager, will be the project lead and will submit quarterly reports and reimbursement requests.
 - Dave Barrett, Park Maintenance Supervisor and Pam Bedard, Horticulturist, supervise and coordinate the work crew.
9. Number of **staff positions involved** in project: Fulltime **4** Part-time **2** ("Fulltime" means 100% of their staff position will be dedicated to this project; "part-time" means only a portion of their staff position will be dedicated to this project)



10. Number of **volunteers involved** in project and an estimated number of volunteer hours. None directly, however we do have Adopt A River groups doing cleanup projects along several sections of the river.
11. **Time Line** of Project. List key dates and include project milestones. *Note:* Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.
 - If awarded, Council approval of grant scheduled for October 24, 2018.
 - Start Date – Not later than December 1, 2018.
 - End Date – June 30, 2019.
12. **Success.** Tell the committee how we will know you succeeded in what you proposed to do. Project success will be measured by the amount of debris (such as bags of trash, counts of other debris) removed from the project location, as well as the number of campsites located and removed. Success can also be determined by a reduction in calls for service to Reno Direct regarding trash & debris along the river.
13. **Grant match.** All applicants must provide a match of at least 25 percent for dollars requested. The match may be with funding and/or in-kind services. For larger grant requests, priority will be given to projects that significantly leverage the grant with funding from other sources. Complete the Grant Match section.
14. **Project budget** (see Sample Budget Template on page 5 of this RFP). Provide detail on line-item expenditures and show which costs are to be paid for by the Truckee River Fund grant, which expenses will be paid for by other sources, and which will be paid for with in-kind services. Other sources of funding should be provided.
 - *Note 1:* Project budget must be a stand-alone, one-page attachment.
 - *Note 2:* Indirect/overhead expenses cannot exceed 25 percent.Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.



Grant Match

Match amount to be provided:	\$9,905				
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. Match is: <table border="1"><tr><td>Cash</td><td>\$9,405</td></tr><tr><td>In-kind</td><td>\$500</td></tr></table> Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. For the cash portion of your match, is the funding already being held by the applicant for this project? Yes.	Cash	\$9,405	In-kind	\$500
Cash	\$9,405				
In-kind	\$500				
Description of matching funds/in-kind donations:	1. Cash match will be reallocation of existing salaries budget to cover 20% of the crew leader time and 30% of the cost of the seasonal, temporary positions; and purchase of additional personal protective gear and supplies. 2. In-kind will be for additional use of City owned equipment. No additional administrative time will be charged to this grant.				

ATTACHMENTS

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- ☐ Last audited financial statements if your organization has been audited
- ☐ List of Board of Directors
- ☐ Copy of agency's IRS 501(c)(3) Tax Determination Letter
- ☐ Copy of the agency's most recent IRS Form 990

Governmental entities submit:

- ☒ Departmental budget in lieu of audited financial statements



Project Budget

Position	No of Pos	Hours Per Wk	Total	TRF \$\$	CITY \$\$
Crew Leader	1	10	\$6,330	\$5,064	\$1,266
Work Crew	3	24	\$26,297	\$18,408	\$7,889
Supplies			\$250	\$0	\$250
Vehicles & Equipment Includes dedicated crew cab pickup, use of 3 yard dump truck and trash compactor; power equipment includes weedeaters, chainsaws and blowers.		24	\$500	\$0	\$500
Admin/Supervision	0	0	\$0	\$0	\$0
Total			\$33,377	\$23,472 70%	\$9,905 30%



Account

Account Description

Adopted
Budget

Current
Month
Transactions

Budget - YTD
Transactions

%
Used/
Rec'd

Fund **00100 - GENERAL FUND**

EXPENSE

Salaries & Wages

7102-0000	Regular salaries	1,837,636.00	25,087.18	1,812,548.82	1%
7104-0000	Temporary salaries	218,900.00	2,295.59	216,604.41	1%
7106-0000	Overtime	2,854.00	.00	2,854.00	0
7106-1000	Overtime-FLSA	.00	7.03	(7.03)	
7108-0000	Severance pay	.00	.00	.00	
7110-0000	Holiday premium pay	.00	.00	.00	

Salaries & Wages Totals \$2,059,390.00 \$27,389.80 \$2,032,000.20 1%

Employee Benefits

7202-0000	Retirement	514,538.00	6,997.90	507,540.10	1%
7204-0000	Group insurance	383,489.00	.00	383,489.00	0
7205-0000	Life insurance	5,937.00	.00	5,937.00	0
7206-0000	Workers comp premiums	78,185.00	.00	78,185.00	0
7210-0000	Employer medicare contributions	29,815.00	396.19	29,418.81	1%
7212-0000	Long Term Disability	4,334.00	.00	4,334.00	0
7214-0000	Deferred Compensation	91,701.00	933.33	90,767.67	1%
7299-0000	Employee benefits-Other	.00	.00	.00	

Employee Benefits Totals \$1,107,999.00 \$8,327.42 \$1,099,671.58 1%

Services & Supplies

7300-0000	Supplies	226,550.00	3,142.62	220,819.38	3%
7300-4000	Supplies-donation expenditures	.00	.00	.00	
7400-2000	Outside services-other	259,167.00	9,904.00	249,263.00	4%
7410-0000	Communication	7,830.00	223.42	7,606.58	3%
7420-0000	Rentals	12,664.00	676.00	11,988.00	5%
7420-1000	Motor vehicle fleet charges	263,223.00	.00	263,223.00	0
7484-0000	Employee training/travel	7,280.00	.00	7,280.00	0
7499-0000	Miscellaneous operating expense	15,081.00	3,477.24	11,603.76	23%

Services & Supplies Totals \$791,795.00 \$17,423.28 \$771,783.72 3%

Capital Outlay

7640-0000	Machinery & equipment	12,500.00	.00	(24,609.65)	297%
7650-0000	Capital projects	.00	.00	.00	

Capital Outlay Totals \$12,500.00 \$0.00 (\$24,609.65) 297%

Sub Department **1317 - Parks Maintenance** Totals \$3,971,684.00 \$53,140.50 \$3,878,845.85 2%

Department **1300 - Parks, Rec. & Community Service** Totals \$3,971,684.00 \$53,140.50 \$3,878,845.85 2%

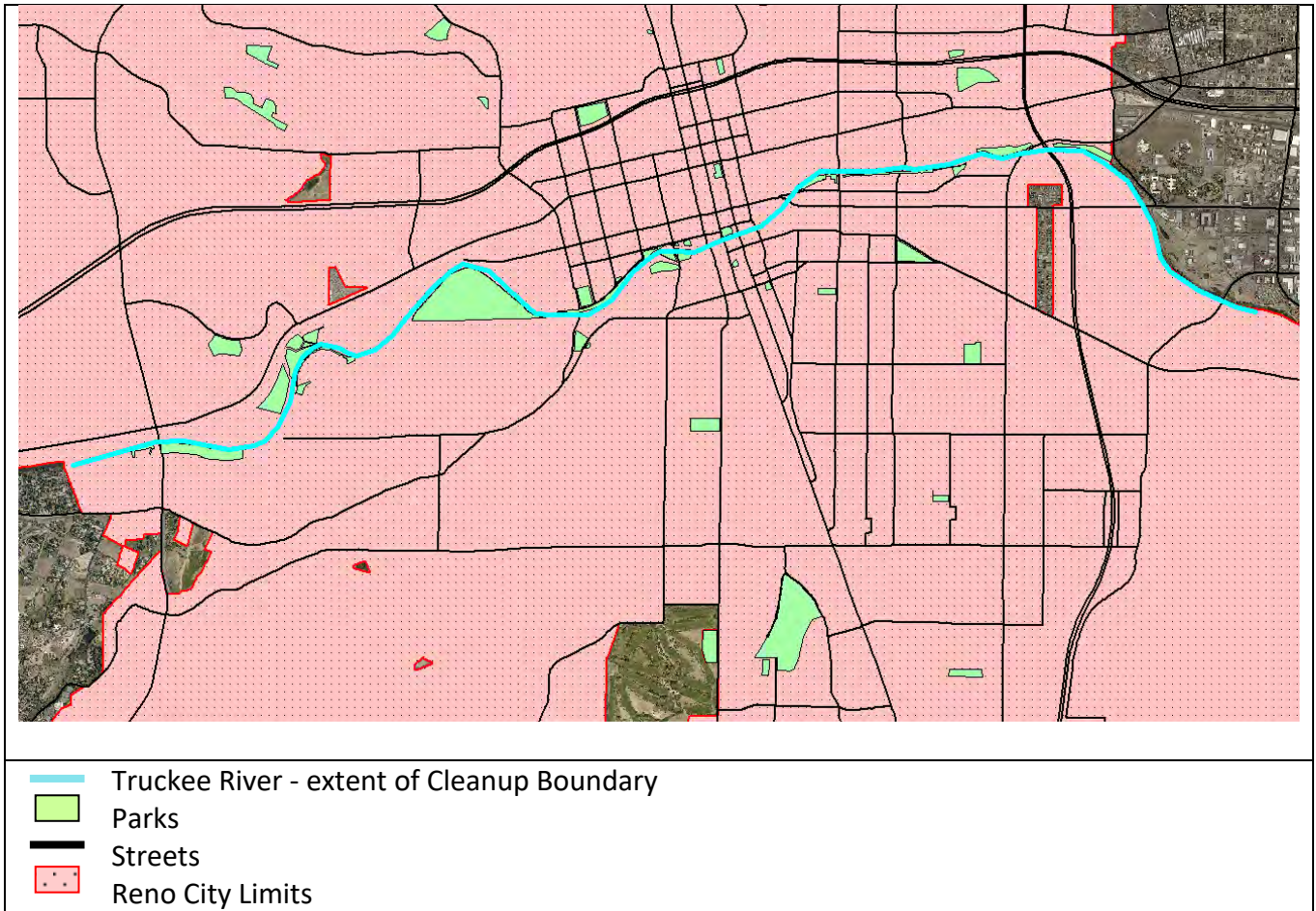
EXPENSE TOTALS \$3,971,684.00 \$53,140.50 \$3,878,845.85 2%



Truckee River Fund

City of Reno Funded Projects (Parks & Recreation Department Only)

Mar-2013	Hazard Tree Removal at Oxbow Park	\$32,250
Mar-2013	Truckee River Path/Bank Stabilization	\$30,615
Feb-2015	Truckee River Cleanup Crew (Year 1)	\$104,235
May-2016	Truckee River Cleanup Crew (Year 2)	\$47,787
May-2017	Truckee River Cleanup Crew (Year 3)	\$28,694
Total		\$243,581





Cover Sheet

Date: 7/31/18

Organization Name:		The Nature Conservancy in Nevada																			
Type:		501(c)(3) EIN# 53-0242652	Governmental entity? Y/N																		
Address:		1 E. 1st St. Suite 1007 Reno, NV 89501																			
Project Name:		Truckee River Watershed Forest Restoration																			
Amount requested: \$57,826.09		Website: www.nature.org/nevada																			
This funding will be used to (complete this sentence with a max of 2 sentences):		The requested funding will support TNC staff time spent working with the Forest Service to expend a portion of a \$1.3M federal grant to implement forest restoration projects in the Truckee River watershed. It will also support part of a contract with a marketing consultant to aid in developing messaging and outreach strategies regarding TNC's watershed science and regional risks associated with wildfires, which will serve as fundraising tools.																			
Key People:	Director:	Juan Palm																			
	Board Chair:	Joel Laub																			
	Project Contact:	Name:	Mickey Hazelwood																		
		Position:	Truckee River Project Director																		
		Phone:	775.322.4990 x3116																		
		Fax:	775.322.5132																		
		Email:	mhazelwood@tnc.org																		
Organization Mission:			The mission of The Nature Conservancy is to conserve the lands and waters on which all life depends.																		
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)			If yes, <u>SEE ATTACHED SHEET</u> <table border="1"> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> </table>	Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:	
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DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☐ C. Projects that remove pollution from the Truckee River.



- ☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
- ☒ E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

1. Specific **project goals and measurable outcomes and how you will measure and report them.**
2. **Project location.**
3. **Project description.** Include site map and aerial photos if applicable/possible. Maps and photos must fit on 8-1/2" x 11" paper. Cite any studies that support your project.
4. **Grant priorities.** Explain how the proposed project advances the TRF's grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative.
5. **Permitting.** Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget.
6. **Future land use.** List any known or foreseeable zoning, land use, or development plans that may affect your proposed project.
7. If **future phases** of the project will be needed, identify anticipated sources of funding.
8. **Principals involved** in leading or coordinating the project or activity.
9. Number of **staff positions involved** in project: Fulltime Part-time ("Fulltime" means 100% of their staff position will be dedicated to this project; "part-time" means only a portion of their staff position will be dedicated to this project)
10. Number of **volunteers involved** in project and an estimated number of volunteer hours.
11. **Time Line of Project.** List key dates and include project milestones. *Note:* Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.
12. **Success.** Tell the committee how we will know you succeeded in what you proposed to do.
13. **Grant match.** All applicants must provide a match of at least 25 percent for dollars requested. The match may be with funding and/or in-kind services. For larger grant requests, priority will be given to projects that significantly leverage the grant with funding from other sources. Complete the Grant Match section.
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 - *Note 1:* Project budget must be a stand-alone, one-page attachment.

³ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



Grant Match

Match amount to be provided:	\$57,826.09				
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. Match is: <table border="1"> <tr> <td>Cash</td> <td>\$57,826.09</td> </tr> <tr> <td>In-kind</td> <td>\$</td> </tr> </table> Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match. For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No ___	Cash	\$57,826.09	In-kind	\$
Cash	\$57,826.09				
In-kind	\$				
Description of matching funds/in-kind donations:	Matching funds will come from DTL project implementation funds.				

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Nonprofits submit:

- ☐ Last audited financial statements if your organization has been audited
- ☐ List of Board of Directors
- ☐ Copy of agency's IRS 501(c)(3) Tax Determination Letter
- ☐ Copy of the agency's most recent IRS Form 990

Governmental entities submit:

- ☐ Departmental budget in lieu of audited financial statements

Previous Truckee River Fund Grants Received by The Nature Conservancy in Nevada

Date Awarded:	March 16, 2017
Project Title:	Landscape Conservation Forecasting for the Truckee River Watershed
Amount of Award:	\$60,000.00
Date Awarded:	September 5, 2014
Project Title:	Optimizing Restoration Investments in the Truckee River Watershed
Amount of Award:	\$50,000.00
Date Awarded:	March 21, 2013
Project Title:	Truckee River Watershed Restoration - Forest Thinning at Independence Lake
Amount of Award:	\$41,300.00
Date Awarded:	September 19, 2012
Project Title:	Independence Lake Woody Fuels Reduction for Fire Resilience - Year 3 Supplemental Funding
Amount of Award:	\$30,000.00
Date Awarded:	March 2008
Project Title:	Independence Lake Public Access Management Planning
Amount of Award:	\$45,510.00
Date Awarded:	December 29, 2008
Project Title:	Independence Lake – Forest and Wildfire Management
Amount of Award:	\$237,110.00

Narrative: Truckee River Watershed Forest Restoration Implementation and Community Outreach

1. Specific project goals and measurable outcomes and how you will measure and report them.

The goals of TNC's headwaters forest work that would be supported by this proposed grant are: 1) to facilitate the investment of some portion of a \$1.3 million federal grant received by The Nature Conservancy (TNC) for on-the-ground forest restoration in the Truckee River headwaters, in coordination with the U.S. Forest Service (USFS) and 2) to develop effective messaging and outreach strategies to educate the public and potential partners about severe wildfire-associated risks to watershed communities, including risks to the region's water supply and, thereby, help TNC increase investment in the restoration of the headwaters forest.

Regarding the first goal, during the term of the proposed Truckee River Fund (TRF) grant, it is unlikely TNC will be able to work with the USFS to implement enough projects to utilize the entire \$1.3 million. That effort will likely take about four years. However, if the requested assistance from the TRF is awarded, TNC expects to utilize a significant amount of the DTL funding over the term of the proposed grant. Success will be measured by TNC's ability to actualize those expenditures and complete on-the-ground projects with the USFS during the TRF grant term. TNC will provide the TRF with updates on project implementation details (types of restoration treatments, acres treated, etc.) and expenditures.

Regarding the second goal, TNC plans to develop the message and outreach strategy with the help of a marketing consultant (outlined in the project description, below) within the term of the proposed TRF grant and will provide the TRF with progress reports on those efforts, as well as copies of any marketing materials and outreach strategy documents.

2. Project location

Projects developed with this funding will be on Humboldt-Toiyabe and Tahoe National Forest lands within the portion of the Truckee River watershed that lies outside the Lake Tahoe Basin.

3. Project description

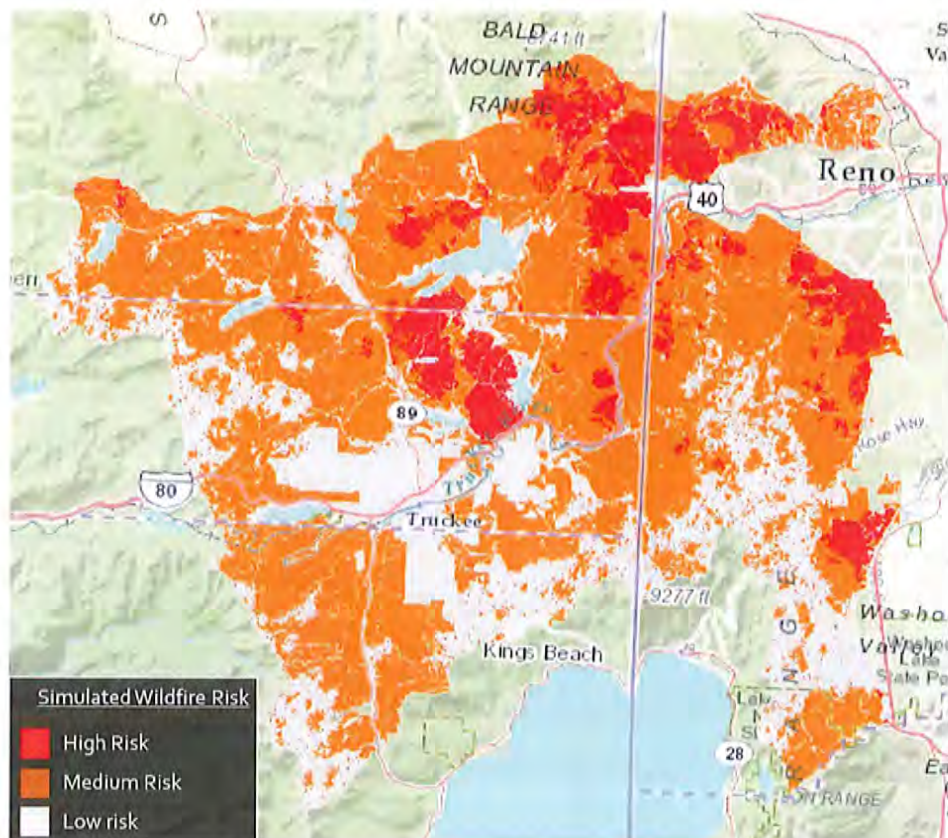
TNC received a grant of approximately \$1.3 million from the Bureau of Reclamation's Desert Terminal Lakes Program (DTL) for implementation of forest restoration projects in the Truckee River watershed. However, the grant does not currently pay for the staff time necessary for project development and management, and without that staff time projects will not get implemented. Therefore, the requested TRF funding will support TNC staff time to work with the USFS to evaluate projects, draft agreements and contracts, oversee contractors, etc. as necessary to expend the DTL funds to implement forest restoration projects that will benefit the Truckee River watershed.

TNC staff time supported under this proposal will be spent developing partnerships with the USFS to allow effective and efficient use of the approximately \$1.3 million DTL grant by filling funding and staff capacity gaps in existing USFS projects for which National Environmental Policy Act (NEPA) and, as necessary, California Environmental Quality Act (CEQA) clearance have been completed or nearly completed. NEPA and CEQA processes can take years to complete, and the DTL grant has a 4-year timeline for expenditure. Therefore, TNC has been working with the USFS to identify projects that 1) have already met the necessary regulatory requirements and are now, or are soon to be, "shovel ready," 2) have funding gaps that can be filled with the DTL funding, 3) have capacity gaps that can be filled with

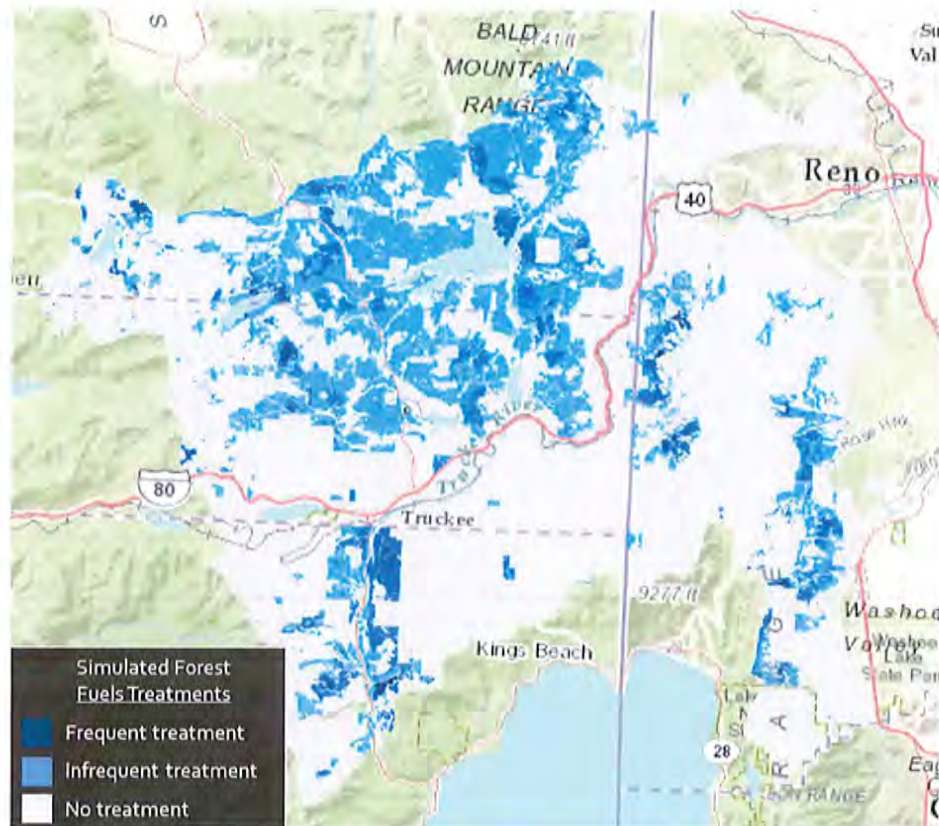
TNC staff's ability to enter into contracts and oversee contractors for forest restoration activities, and 4) have a strategic nexus with the health of the Truckee River watershed, as indicated by TNC's science. TNC is currently completing a rigorous science-based watershed study, assessing Truckee River headwaters forest health, wildfire risk, and watershed impacts that may result post fire (e.g., sedimentation, flow alterations) and identifying the areas where forest restoration efforts will be most effective in reducing those risks and impacts. This study is using the Landscape Conservation Forecasting (LCF) methodology developed by TNC to assist federal land managers in producing land management plans that result in the greatest return on investment. LCF combines maps produced using high-resolution satellite imagery with state-and-transition models to assess current vegetation conditions and changes over time (including those from wildfires), with and without management actions.

TNC will then combine the results of the LCF work for the Truckee River headwaters with hydrologic and sediment transport models to assess post-fire impacts to the waterways and reservoirs in the Truckee River system. Land management scenarios are modeled to assess the ability to mitigate wildfire and wildfire-related impacts through land management activities. The study was partially funded through a previous TRF grant (TRF #187 – Landscape Conservation Forecasting for the Truckee River Watershed).

TNC has preliminary results from that study and will have final results in the coming months. Among the findings is that the headwaters forest is in fact at risk of significant, stand-replacing fires that could irreversibly damage our forest and impact our water supply. It further identifies that a significant, long-term investment (tens of millions of dollars over several decades) will be needed to address the problem. The figure below was produced from preliminary results and indicates where the risk of fire is highest (aggregated over 25 years), including areas near reservoirs, along the mainstem and tributaries of the Truckee River, and at the wildland-urban interface of Reno.



Part of TNC's responsibility under the requested funding will be to identify proposed USFS projects that are supported by TNC's science as providing multiple benefits, including reducing wildfire risks and potential impacts to water quality. The figure below displays where preliminary model results indicate restoration treatments should be implemented to reduce wildfire risks. Based on meetings TNC has already held with the USFS to review current and proposed USFS projects, we have already identified projects that meet all four criteria listed in the second paragraph of this project description and exist within the treatment areas identified in the figure above. The USFS has also expressed a desire to work with TNC on these projects and a willingness to enter into the necessary agreements to enable the partnership.



As to the second goal of this proposal, one of the long-term goals of the LCF-based study is to demonstrate a compelling case for increased investment in the health of the Truckee River watershed's headwaters forest. Now that TNC is nearing the end of the study and the need for investment is clear, we are contracting with a marketing consultant, The Neon Agency, to help develop messaging and outreach strategies, including:

- A. Distilling TNC Truckee River headwaters science report into clear, concise message regarding the state of our imperiled forest and what needs to be done to improve it.
- B. Planning media pitches about the TNC science report as the "launch" of a Truckee River Watershed Improvement Program (TRWIP) that would raise funds for increasing the pace and scale of forest restoration.

- C. Creating catchy, compelling campaign concept options for the TRWIP and facilitating in selecting one. (The goal is to get people to connect with and care about the importance of the Truckee Headwaters forest for all it provides in the community (clean water, clean air, recreation, support of the economy, etc.) and be inspired to protect it.)
- D. Developing a strategy for the execution of the awareness campaign (how to spread the messages developed in C.). Making recommendations for campaign components, including partner stories, media pitches, and collateral pieces (video/PSA, print, social media, etc.). Developing a specific timeline for creation/distribution of these components.

4. Grant priorities

This proposal meets multiple grant priorities for the Truckee River Fund. The Truckee River headwaters forest is overstocked with trees from a century of fire suppression, and many trees are dead or dying from drought stress, making the forest more susceptible to unnaturally large and intense wildfires. The projects that would be developed and implemented under this proposed grant would help reduce the risk of wildfires and associated risks to the water supply, meeting grant priority **IV. Re-forestation and Re-Vegetation Projects**. While the proposed projects do not necessarily involve reforestation of fire damaged areas through re-vegetation, they do address damages from historical logging and other land management practices (fire suppression) that created the current fire-prone conditions, reducing the risk of wildfires and post-fire impacts, including those to water quality, and improving watershed resiliency in drought situations.

The activities included in this grant proposal also meet grant priority **VIII. Leverage Stakeholder Assets and Participation** in multiple ways. First, the requested TRF funding to support TNC staff time in developing and implementing forest restoration projects with the USFS will be greatly leveraged in helping ensure the utilization of \$1.3 million of DTL funds on projects that will benefit river water quality, watershed protection, source water protection and habitat enhancement. Second, the requested TRF funding to help TNC develop messaging and outreach strategies is intended to benefit efforts to raise funds that will support more of the same types of projects, further into the future.

5. Permitting

As discussed in the project description, regulatory compliance for projects on USFS lands can take years to attain, and the DTL grant will expire in approximately four years. Therefore, TNC and the USFS are targeting the expenditure of the DTL funds on projects for which the USFS has already completed permitting or has the process well underway. Since the USFS is funding the necessary permitting, those costs are not included in the budget for this grant proposal.

6. Future land use

Since proposed projects are on federal lands managed by the USFS, there is no threat of known or foreseeable zoning, land use, or development plans affecting the proposed projects.

7. If future phases of the project will be needed, identify anticipated sources of funding.

It will likely take TNC the full four years of the DTL grant term to expend the \$1.3 million, and TNC is only requesting TRF funding through September 30, 2019. TNC expects to have alternative funds available after September 30, 2019 to serve the purposes of this grant proposal.

8. Principals involved

Mickey Hazelwood, Truckee River Project Director, will be the TNC staff person working directly with the USFS to develop cooperative projects, as well as managing contracts and contractors.

9. Number of staff positions involved in project

The Truckee River Project Director is the only staff position TNC is requesting support for through this grant proposal. The Project Director is a full-time position, but under the proposed TRF grant, TNC is requesting funding to support 28% of his time through September 30, 2019, which will be spent on the efforts outlined in the project description above.

10. Number of volunteers involved in project

No volunteers will be involved in this project.

11. Time line of project

TNC will be working to expend the DTL funds through September 30, 2022 and is requesting support from the TRF to staff that effort through September 30, 2019. TNC plans to complete message development and outreach planning work with The Neon Agency by December 31, 2018. Outreach efforts will continue through the end of the grant term and beyond.

12. Success

Success will be measured by TNC's ability to expend DTL funds on headwaters forest restoration projects with multiple watershed benefits within the term of the proposed TRF grant and beyond. Success will also be measured by TNC's ability to successfully work with The Neon Agency to produce outreach materials that represent a unified voice from stakeholders with different perspectives on the wildfire and wildfire-related issues our communities are facing, not simply a message from TNC, and to start an outreach campaign within the term of the proposed grant.

Truckee River Watershed Forest Restoration Implementation and Community Outreach					
Project Budget					
Budget Item	TRF\$	Match TNC\$	Match DTL\$	Match Total	Total
Salary (28% FTE)	\$ 24,288.60				\$ 24,288.60
Fringe @ 42.68%	\$ 10,366.37				\$ 10,366.37
Marketing Consultant	\$ 12,000.00	\$ 12,000.00		\$ 12,000.00	\$ 24,000.00
Project Implementation			\$ 36,793.33	\$ 36,793.33	\$ 36,793.33
Travel	\$ 550.00				
Total Direct Cost	\$ 47,204.97	\$ 12,000.00	\$ 36,793.33	\$ 48,793.33	\$ 95,448.30
ICR*	\$ 10,621.12		\$ 9,032.76	\$ 9,032.76	\$ 19,653.88
Total	\$ 57,826.09	\$ 12,000.00	\$ 45,826.09	\$ 57,826.09	\$ 115,102.19
*TNC is requesting 22.5% ICR for the TRF grant, while the FY19 negotiated federal ICR rate applied to the matching DTL funds is 24.55%.					

Organization Name:	Truckee River Watershed Council																				
Type: Non-Profit	501(c)(3) EIN# 91-1818748	Governmental entity? No																			
Address:	P.O. Box 8568, Truckee, CA 96162																				
Project Name:	Restoration Projects: Donner Creek and Dry Creek Meadow																				
Amount requested: \$100,000	Website: www.truckeeriverwc.org																				
This funding will be used to (complete this sentence with a max of 2 sentences):	Fill critical funding gaps in two restoration projects to reduce excess sedimentation to the Truckee River.																				
Key People:	Director:	Lisa Wallace																			
	Board Chair:	Michael Park																			
	Project Contact:	Name:	Beth Christman																		
		Position:	Director of Restoration																		
		Phone:	(530) 550-8760 x1																		
		Fax:																			
		Email:	bchristman@truckeeriverwc.org																		
Organization Mission:	We bring the community together for the Truckee to restore, protect, and enhance the Truckee River watershed.																				
Has your organization received other grants from the Truckee River Fund? Yes ☒ No (use additional page if necessary)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>March 2018</td> </tr> <tr> <td>Project title:</td> <td>Truckee Meadows Restoration Project- Phase 2</td> </tr> <tr> <td>Amount</td> <td>\$30,000</td> </tr> <tr> <td>Date awarded:</td> <td>October 2017</td> </tr> <tr> <td>Project title:</td> <td>Truckee River Tributaries Sediment Reduction Project</td> </tr> <tr> <td>Amount:</td> <td>\$165,000</td> </tr> <tr> <td>Date awarded:</td> <td>March 2017</td> </tr> <tr> <td>Project title:</td> <td>Big Chief, F4M Restoration Culvert Outflows</td> </tr> <tr> <td>Amount:</td> <td>\$50,00</td> </tr> </table> Please see Attachment A for a full list of awarded grants			Date awarded:	March 2018	Project title:	Truckee Meadows Restoration Project- Phase 2	Amount	\$30,000	Date awarded:	October 2017	Project title:	Truckee River Tributaries Sediment Reduction Project	Amount:	\$165,000	Date awarded:	March 2017	Project title:	Big Chief, F4M Restoration Culvert Outflows	Amount:	\$50,00
Date awarded:	March 2018																				
Project title:	Truckee Meadows Restoration Project- Phase 2																				
Amount	\$30,000																				
Date awarded:	October 2017																				
Project title:	Truckee River Tributaries Sediment Reduction Project																				
Amount:	\$165,000																				
Date awarded:	March 2017																				
Project title:	Big Chief, F4M Restoration Culvert Outflows																				
Amount:	\$50,00																				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☒ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☒ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☒ C. Projects that remove pollution from the Truckee River.
- ☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- ☐ E. Other projects that meet the evaluation criteria.

1. Specific project goals and measurable outcomes and how you will measure and report them.

The goal is to restore impaired meadow and aquatic systems on tributaries to the Truckee River in order to reduce erosion and excess sedimentation to the main stem Truckee River.

The funding request is to close critical funding gaps on two projects to that end: one in the design phase, the **Donner Creek Restoration Project** and the other in implementation, **Dry Creek Meadow Restoration**.

With the support of the Truckee River Fund (grant #178), we have advanced the **Donner Creek Restoration Project** designs to 60% for three restoration sites. These projects will improve water quality and habitat along Donner Creek, and decrease sedimentation reaching the Truckee River. This reach of Donner Creek is one of the top three sediment dischargers within the Town of Truckee to the Truckee River (TRWC 2014) and the three sites were identified as priorities by the Donner Basin Assessment (2016). This proposal is to complete the 100% restoration designs.

TRWC has worked closely with our project partners to develop the 60% designs including Caltrans, the Town of Truckee, and the Tahoe Truckee Unified School District. The partners strongly support the project, which has presented a unique construction funding opportunity. If TRWC can complete the 100% restoration designs by December 2018, Caltrans is able to fund project implementation completely (estimated at \$900,000) through their 2019 Community Partner funding program.

The measurable outcomes are 100% designs for the following restoration sites (See Attachment B):

- Project Site 2: Bank Stabilization and Channel Enhancement Along Highway 89;
- Project Site 3: Stormwater Treatment Wetland Complex and Educational Site;
- Project Site 4: Stormwater Infiltration and Treatment along I-80.

Project success will be achieved when the partners approve the 100% designs. Ultimately, project construction and post-project monitoring will confirm water quality benefits to the Truckee River.

The goal of the **Dry Creek Meadow Restoration Project** is to restore and enhance 30 acres of mountain meadow. The project will address significant meadow and stream degradation at four sites within the Dry Creek watershed, identified by the Dry Creek Watershed Assessment (2013). The measurable outcomes of this project include:

- Improve water quality and aquatic habitat by decreasing erosion along 3,000' of stream;
- Elevate the groundwater table by filling 3,000' of incised channels thus restoring meadow hydrology;
- Restore hydrologic function by directing streams into 5,000' of original channels;
- Reconnect natural drainage and meadows through removing 650' of dirt roads;
- Improve ability of system to respond to dry periods by improving late season stream flow;

Project success will be measured by pre- and post-project monitoring program across groundwater, stream flow, vegetation, aquatic and fisheries, and geomorphic parameters.

This request is to fill a critical funding gap for project implementation, which is scheduled for fall 2018.

2. Project location. The projects are located on two tributaries in the California portion of the Truckee River watershed. The **Donner Creek Restoration Project** is located on Donner Creek within the final

mile of the confluence with the main stem of the Truckee River (See Attachment B). The **Dry Creek Meadow Restoration Project** is located along Dry Creek (locally known as Russel Valley) north of the Town of Truckee (See Attachment C).

3. Project description. This funding request includes two restoration projects: the **Donner Creek Restoration Project** and the **Dry Creek Meadow Restoration Project**. The projects share a common goal of reducing excess sedimentation to the Truckee River.

The Donner Creek Restoration Project was initiated out of the Donner Basin Assessment (2016) which identified a number of restoration opportunities to improve water quality in Donner Creek. TRWC and our project partners selected the restoration sites included in this proposal as priorities for restoration. With support from the Truckee River Fund, these were advanced to the 60% level in 2018. This proposal would advance the designs to 100% allowing TRWC to pursue a unique construction funding opportunity with Caltran's Community Partner funding program. This would provide an estimated \$900,000 in construction funding.

Site 2: Bank Stabilization and Channel Enhancement Along Highway 89. Donner Creek at Site 2 is severely eroded with limited riparian habitat and canopy. The project will re-profile the stream channel, laying back and stabilizing an eroding bank and removing accumulated gravel and debris to reestablish a secondary channel. This will enhance riparian habitat along the stream corridor and improve instream habitat quality and substrate diversity by reducing fine sediments and restoring natural physical processes.

Site 3: Wetland Complex and Educational Site. This Donner Creek reach is on the north side of Interstate 80, between the interstate and the adjacent Truckee High School. This project will construct a stormwater treatment wetland complex with multiple treatment cells to improve water quality, provide a wetland habitat, and improve the quality of riparian habitats. The complex will create a unique living classroom for the neighboring schools' environmental education programs.

Site 4: Infiltration and Treatment along I-80. This reach of Donner Creek has limited substrate and habitat diversity due to channel modifications. The project will construct linear vegetated swales to increase instream habitat diversity and bank stability by installing root wads in the stream banks along with instream structures. This will result in significant improvements in water quality, reduce hydrologic impacts, and reduce fine sediment loading.

The **Dry Creek Meadow Restoration project** is a partnership of the TRWC, the U.S. Forest Service – Tahoe National Forest (USFS), and a private landowner. The project will restore and enhance 30 acres of mountain meadows. This proposal will close a \$20,000 funding gap for project implementation, scheduled for fall 2018.

The restoration design for the Dry Creek Meadow Restoration Project takes advantage of natural functions within the watershed, focusing on removing anthropogenic impacts that have altered meadows, streams, and forests. The project includes four separate meadow and stream sites (Sites 5-8).

Site 5. Restoration actions at this site includes treatment of a headcut and the area downstream with a combination of rock riffles and soil to stabilize and reconnect the natural hydrology of the area.

Site 6. Site 6 is a road eradication and relocation project. The segment of road will be obliterated and rehabilitated so that the natural hydrology of the channel is restored. This will eliminate erosion from the project site

Site 7. Site 7 involves removing a redundant road segment (FSR 886-18) constructed through the meadow. Excess fill from this site will be used at Site 8. The remaining road segment will be improved to increase usability. Removing the road will increase floodplain area and remove a source of constriction on the stream channel, reducing erosion and improving meadow function.

Site 8. At Site 8, actions include restoring flow to natural channels on the meadow surface, blocking off the incised existing channel, and removing a non-functioning breached dam at the base of the meadow.

4. Grant priorities. The project addresses the following Truckee River Fund priorities

- **Watershed Improvements.** The two projects will decrease excess sedimentation to the Truckee River and support attainment of the 303 (d) listed TMDL pollutant.
- **Local Stormwater Improvements.** The Donner Creek Restoration Projects will mitigate stormwater run-off from urbanized areas of the watershed. The Dry Creek Meadow Restoration Project will remove road segments triggering stormwater runoff and erosion.
- **Meet Multiple Objectives.** The projects meet the watershed and water quality objectives listed above. It also benefits wetlands and instream habitats, native fish and wildlife species, flood attenuation, and carbon sequestration.
- **Leverage Stakeholder Assets and Participation.** The projects have leveraged significant stakeholder participation from Caltrans, Tahoe Truckee Unified School District, and the USFS. Moreover, the completion of final designs for the Donner Creek Restoration project may leverage \$900,000 in construction funding from Caltrans.

5. Permitting. There is no permitting involved in this stage of the **Donner Creek Restoration Project**. TRWC is completing CEQA and required environmental permits in conjunction with Caltrans.

TRWC and USFS have completed CEQA and NEPA for the **Dry Creek Meadow Restoration Project** and has applied for other required permits including California Department of Fish and Wildlife 1600 agreement, Section 401 Water Quality Certification, Construction General Permit, Section 404 Nationwide 27 permit, and Nevada County Grading permit.

6. Future Land Use. There are no foreseeable zoning, land use, or development plans that will affect the projects or project sites. All landowners are project partners and have committed to the projects.

7. Future Phases. The future project phases for the **Donner Creek Restoration Project** include construction, monitoring, and adaptive management. TRWC anticipates funding for these through Caltrans 2019 Community Partner Funding program; however this funding source requires final designs by December 2018 for eligibility. The future phases of the **Dry Creek Meadow Restoration Project** (monitoring and maintenance) are already funded by outside sources (see match description).

8. Principals involved. Michele Prestowitz, Program Manager with TRWC, will oversee the design of the Donner Creek Restoration Project. Beth Christman, Director of Restoration with TRWC, will oversee the implementation of the Dry Creek Meadow Restoration Project. These principals will handle grant administration tasks jointly.

9. Number of staff positions involved in project: Michele Prestowitz and Beth Christman will work part-time on these projects.

10. Number of volunteers. The nature of work involved with these projects does not lend itself to volunteer participation.

11. Time Line.

Task	Completion Date
Donner Creek Restoration	
60% restoration designs	Completed
100% restoration designs	11/16/2018
Submit final plans to Caltrans for funding request	11/30/2018
Partner coordination and project management	12/28/2018
Dry Creek Meadow Restoration	
Construction (sites 5-8)	9/4/2018 – 10/12/2108

12. Success. Project success for the **Donner Creek Restoration Project** will be achieved when the final restoration designs are approved by the project partners. Ultimately, project construction and pre- and post- project monitoring will confirm the water quality and habitat benefits.

Project success for the **Dry Creek Meadow Restoration Project** will be confirmed by the post-project monitoring for hydrologic (groundwater and stream flow), vegetation, aquatic and fisheries, and geomorphic parameters.

13. Grant match.

Match amount to be provided:		\$192,000
Match details:	Match is:	
	Cash	\$192,000
	In-kind	\$0
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes	
Description of matching funds/in-kind donations:	California Department of Fish and Wildlife Proposition 1 Watershed Restoration Grant Program. Matching funds are allocated for personnel services, operating expense, and subcontractors. TRWC will manage funds provided by CDFW and the Truckee River Fund to maximize project efficiency and cost effectiveness.	

Attachments

- A. Extended list of past TRWC projects funded by the Truckee River Fund.
- B. Donner Creek Restoration Project Location Map
- C. Dry Creek Meadow Restoration Project Vicinity Map

Documents noted below are available and can be submitted upon request.

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency's IRS 501(c)(3) Tax Determination Letter
- Copy of the agency's most recent IRS Form 990

BUDGET

Item	TRF Request	Other Funding	Match	Total
Donner Creek Restoration				
Project and Partner Management	\$8,000	\$0	\$0	\$8,000
100% Design Plans	\$72,000	\$0	\$0	\$72,000
Dry Creek Meadow Restoration				
Construction oversight	\$0	CA DFW	\$36,500	\$36,500
Restoration implementation	\$20,000	CA DFW	\$142,000	\$162,000
California Conservation Corps (revegetation)	\$0	CA DFW	\$13,500	\$13,500
TOTAL	\$100,000		\$192,000	\$292,000

Attachment A
Full list of grants to TRWC from the Truckee River Fund

Date awarded:	March, 2018
Project title:	Truckee Meadows Restoration Project – Phase 2 Construction
Amount of Award:	\$30,000
Date awarded:	October, 2017
Project title:	Truckee River Tributaries Sediment Reduction Project
Amount of Award	\$165,000
Project title:	F4M Restoration Culvert Outflow
Amount of Award	\$50,000
Date awarded:	September 2016
Project title:	Donner Creek Concept Designs
Amount of Award	\$40,000
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization
Amount of Award	\$92,000
Date awarded:	April 2016
Project title:	Johnson Canyon West #2
Amount of Award	\$67,000
Date awarded:	October 2015
Project title:	Johnson Canyon West #1
Amount of Award	\$25,000
Date awarded:	September 2014
Project title:	Donner Lake Watershed Assessment
Amount of Award	\$70,000
Date awarded:	March 2014
Project title:	Truckee Wetlands Restoration – Phase 3,4, & 5 – Design
Amount of Award	\$50,000
Date awarded:	October 2013
Project title:	Truckee River Big Chief Corridor –Restoration
Amount of Award:	\$150,000
Date awarded:	March 2013
Project title:	Truckee River Big Chief Corridor – Implementation
Amount of Award	\$11,000
Date awarded:	March 2013
Project title:	Middle Martis Wetland Restoration – planning and design
Amount of Award:	\$120,000
Date awarded:	August 2012
Project title:	Phase 2 Coldstream Canyon Floodplain Restoration
Amount of Award:	\$196,000
Date awarded:	March 2012
Project title:	Lacey Creek and Meadow Assessment
Amount of Award	\$50,000
Date awarded:	March 2012

Project title:	Negro Canyon Restoration – pre-project monitoring
Amount of Award:	\$25,000
Date awarded:	October 2010
Project title:	Coldstream Canyon Floodplain Restoration Project
Amount of Award:	\$135,000
Date awarded:	August 2010
Project title:	Truckee Wetlands Restoration Project – Phase 2
Amount of Award:	\$40,000
Date awarded:	July 2006
Project title:	“This Drains to the Truckee River” Storm Drain Stenciling Pilot Project
Amount of Award:	\$9,300

Attachment B
Donner Creek Restoration Project: Location Map



Attachment C Dry Creek Watershed Restoration

Vicinity Map

Truckee River Watershed Council

Tahoe National Forest
Truckee Ranger District

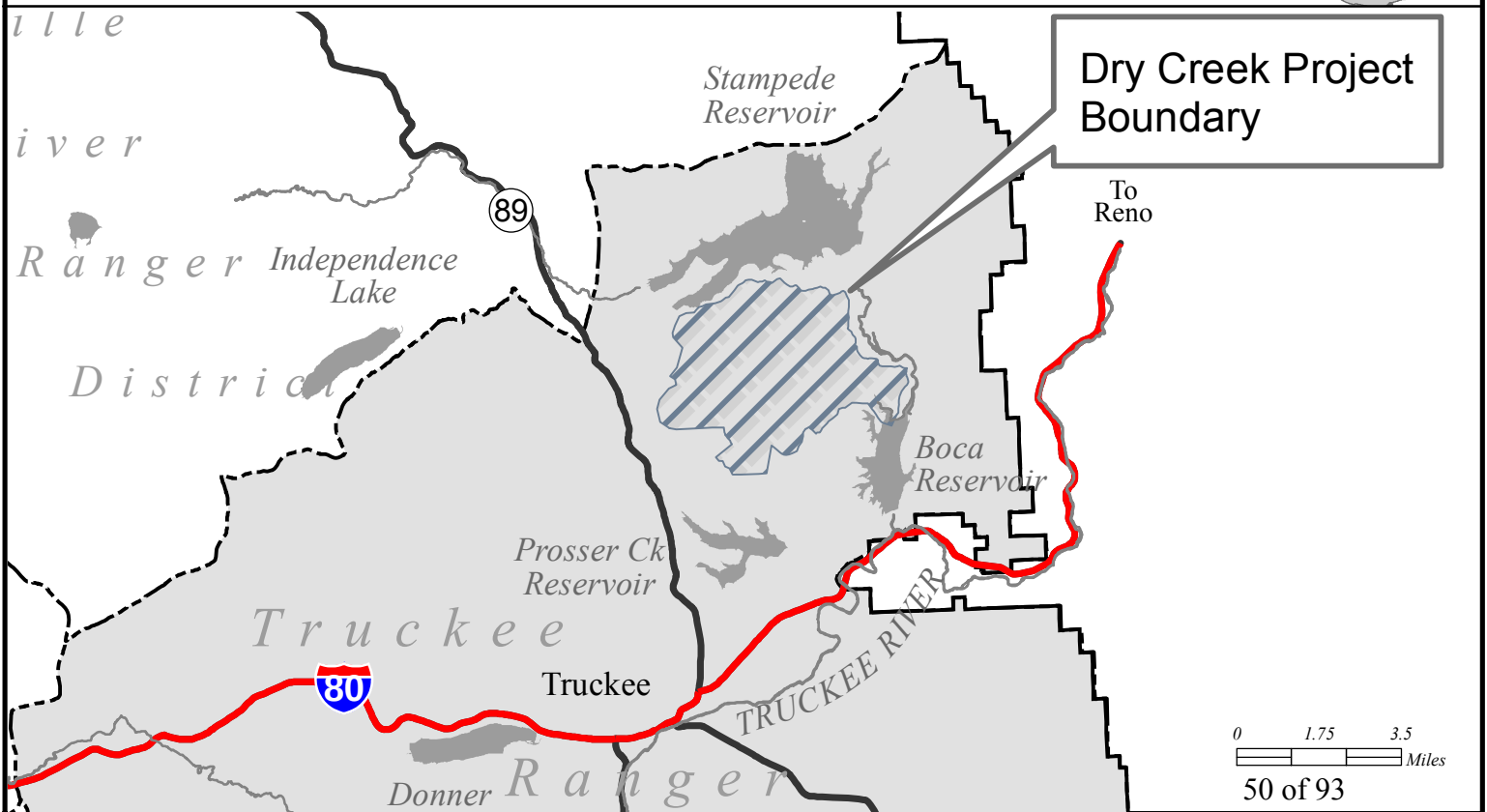
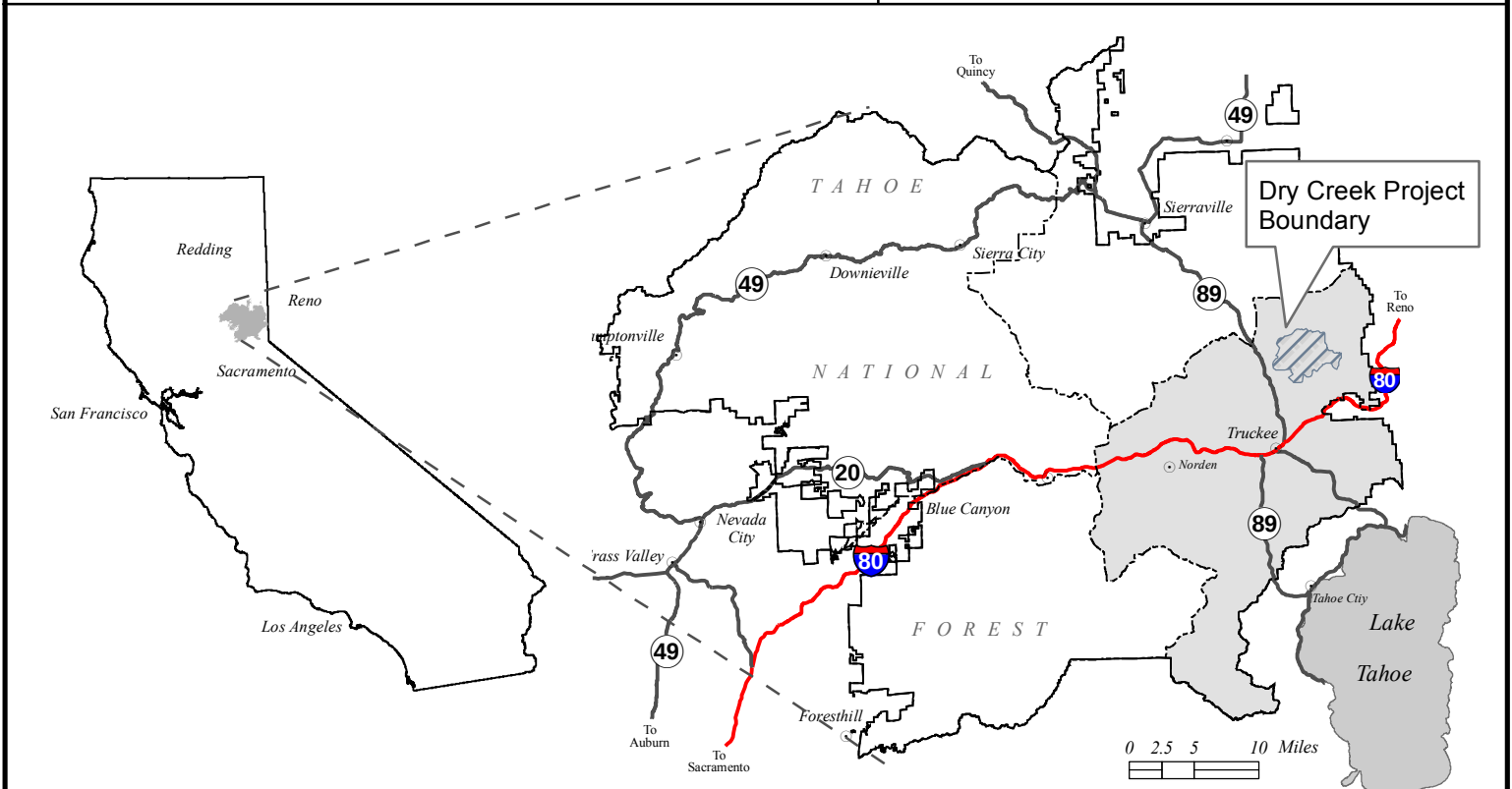
08-17-18 TRF Agenda Item 9

— Forest Boundary
- - - Ranger District Boundary



Note: The USDA Forest Service Tahoe N.F. uses the most current and complete data available. GIS data and product accuracy may vary. The lines and areas represented on this map are only approximate and their actual location on the ground may vary.

6/10/2016



0 1.75 3.5
Miles

Organization Name:	Truckee River Watershed Council		
Type: Non-Profit	501(c)(3) EIN# 91-1818748	Governmental entity? No	
Address:	P.O. Box 8568, Truckee, CA 96162		
Project Name:	Truckee River Water Quality Monitoring Program		
Amount requested: \$50,000		Website: www.truckeeriverwc.org	
This funding will be used to (complete this sentence with a max of 2 sentences):		This project will monitor physical, chemical and biological parameters to determine health of the Middle Truckee River and its tributaries. This project supports the Truckee River TMDL and the Truckee River Operating Agreement (TROA) by identifying areas with degraded water quality and areas where water quality improvements should be implemented.	
Key People:	Director:	Lisa Wallace	
	Board Chair:	Michael Park	
	Project Contact:	Name:	Eben Swain
		Position:	Program Manager
		Phone:	530-550-8760, 7#
		Fax:	NA
Email:	eswain@truckeeriverwc.org		
Organization Mission:	We bring the community together for the Truckee to restore, protect, and enhance the Truckee River watershed.		
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes,		
	Date awarded:	March, 2018	
	Project title:	Truckee Meadows Restoration Project – Phase 2	
	Amount	\$30,000	
	Date awarded:	October, 2017	
	Project title:	Truckee River Tributaries Sediment Reduction Project	
Please see Attachment A for a full list of awarded grants			

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☒ C. Projects that remove pollution from the Truckee River.
- ☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- ☒ E. Other projects that meet the evaluation criteria –**grant priority #s: II, V, VI, VII and VIII.**

1. Specific project goals and measurable outcomes and how you will measure and report them.

The goals of Truckee River Watershed Council's water quality monitoring program are:

- To assess the condition of the Truckee River ecosystem;
- To screen for water quality problems typically associated with common land use practices in the Truckee River watershed;
- To collect data related to the Truckee River Operating Agreement (TROA);
- To support the Truckee River sediment TMDL monitoring program; and
- To empower citizens to be responsible stewards and decision-makers.

The Middle Truckee River watershed is included on the Clean Water Act (303)d list of impaired waterbodies for sediment by the U.S. EPA, with an approved TMDL (Lahontan Water Board, 2008). The Truckee River is the primary source delivering water supply for the Reno- Sparks metropolitan area via the Truckee Meadows Water Authority.

The primary outcome of this project will be the collection and analysis of physical, chemical and biological components of over 100 individual sites each year resulting in a comprehensive monitoring report to be completed on an annual basis.

Additional outcomes will be to provide successful oversight and management of an extensive volunteer program to promote environmental awareness and stewardship within the Truckee River watershed.

Specific measurable outcomes include:

- 20-25 sites monitored for physical and chemical components four times each year.
- 5 sites monitored for biological components each year.
- Participation of over 100 volunteers each year.
- Participation in two Snapshot day events where water quality monitoring occurs across the entire Truckee River watershed.
- Conduct two team leader training events.
- Coordination with the Truckee River Basin Water Group.
- Compilation of annual water quality monitoring report.

Success of the project will be determined by meeting the measurable outcomes noted above and by identification of areas in our watershed that exhibit aspects of poor health and degraded water quality.

2. Project location. Please see attached location map(s).**3. Project description.**

Previous work related to this project. The Truckee River Watershed Council (TRWC) has been managing a volunteer-based water quality-monitoring program (Adopt-A-Stream) in the Middle Truckee watershed since 1999. Based on the long-term data collection, we have determined that a number of sites are not meeting the standards established by the Lahontan Regional Water Board.

In 2010, TRWC conducted a study in collaboration with UC Santa Barbara consisting of suspended sediment and turbidity monitoring as well as bio assessment studies. The results of this study showed excess accumulation of sediment at the majority of sites monitored and highlighted the degradation of key beneficial uses identified by the Lahontan Regional Water Board including Cold Freshwater Habitat (COLD) and Spawning Reproduction and Development (SPAWN). Based on the results of this study, the Lahontan Water Board has delayed the de-listing of the Truckee River as an impaired waterbody.

In 2015, the Truckee River Operating Agreement (TROA) was signed and finalized by a number of bi-state partners including the states of Nevada and California as well as the Truckee Meadows Water Authority (TMWA) and the Pyramid Lake Paiute Tribe. The data collected by TRWC provides an important baseline for assessing impacts of TROA on water quality.

The problem. The Truckee River and three tributaries (Bronco Creek, Gray Creek, and Squaw Creek) are listed as impaired for excessive sediment under the Clean Water Act. Sediment sources include road and highway salting and sanding, construction, ski runs, and natural sediment sources including landslides and debris flows (LRWQCB, 2008). This program is the only water quality monitoring program proactively assessing the impacts of the sediment sources.

TRWC manages and coordinates a dedicated team of volunteers who help us to collect physical, biological and chemical data and to assess the overall health of our waterbodies. Volunteers collect data that helps determine temperature, pH, nutrient and dissolved oxygen levels and helps to identify areas where water quality is detrimentally affecting the fish and aquatic organisms that depend on healthy waters for survival and for reproduction. Volunteers also collect data to define the levels of fine sediments and pollutants that are present in our waterways, allowing for further analysis of local land use activities and their effect of water quality.

Water quality data supports watershed analysis. This project will allow for continued data collection that helps to assess the overall health of our watershed and to identify and prioritize areas where water quality improvements should be implemented. Funding provided by the Truckee River Fund will help to address the following questions:

1. Are water quality standards being met in the Truckee River watershed?
2. What is the overall water quality in the Truckee River watershed?
3. Is there evidence of impacts to water quality at urban sites compared to non-urban sites?
4. What is the current condition compared to pre-TROA water quality at sites below dams?
5. Is there evidence of water quality impairment due to excess sediment?
6. What is the level of public engagement in our Adopt-A-Stream program?

4. Grant priorities. The project addresses:

Watershed Improvements: This project helps to assess the overall health of the waterways located in the Middle Truckee River watershed and provides data on whether or not we are meeting the water quality standards and objectives established by the Lahontan Regional Water Quality Control Board.

Support Rehabilitation of Local Tributary Creeks and Drainage Courses: The project helps identify areas where water quality has deteriorated and where detrimental impacts to the mainstem of the Truckee River and associated tributaries are occurring. Based on information collected, areas that have been deteriorated may be targeted for water quality improvements by TRWC and/or partnering agencies.

Stewardship and Environmental Awareness: This project engages local community members in “citizen science” by providing an opportunity to participate in collecting physical, chemical and biological data related to various water quality parameters. Through participation in this program, environmental awareness and stewardship is elevated amongst community members.

Meet Multiple Objectives: The project meets the three objectives listed above. The project also supports agreements and actions implemented under TROA and supports attainment of the Truckee River TMDL.

Leverage Stakeholder Assets and Participation: The water quality-monitoring program coordinated and implemented by TRWC complements the efforts being conducted by Placer County and the Town of Truckee to develop a comprehensive monitoring plan that examines water quality trends on a long-term temporal scale. As noted above, this project also helps to provide important data and to inform the status of the Truckee River TMDL (LRWQCB, 2008) and the actions of TROA

5. **Permitting.** No permitting necessary for this project.
6. **And 7. If future phases of the project will be needed, identify anticipated sources of funding.**
Proactive water quality monitoring is a high priority for us and TRWC will continue to pursue funding opportunities for the Middle Truckee water quality-monitoring program.
8. **Principals involved** in leading or coordinating the project or activity. Beth Christman and Eben Swain will be the leads from TRWC.
9. **Number of staff positions involved in project:** (Part-time) Beth Christman and Eben Swain will work a portion of their time to this project.
10. **Number of volunteers involved in project and an estimated number of volunteer hours.**
Volunteers will assist with all aspects of data collection through the length of the project. Volunteers will receive training in monitoring protocol and equipment usage prior to assisting with data collection. 100 volunteers will contribute a total of 800 hours of volunteer time each year the program is in operation.

11. Time Line.

Task	Start Date	Completion Date
Conduct lab analysis for macro-invertebrate	May 2019	April 2020
Conduct lab analysis for nutrients/phosphorus	May 2019	September 2020
Conduct annual team leader training	May 2019	May 2020
Volunteer coordination	May 2019	September 2020
Conduct physical/chemical monitoring	May 2019	September 2020
Conduct biological monitoring	May 2019	September 2020
Coordinate with Truckee River Basin Water Group (TRBWG)	May 2018	September 2020
Develop annual monitoring report	May 2019	March 2020

12. Success. Data collected will help to provide input for compilation of an annual monitoring report that determines whether we are meeting water quality monitoring standards for the Middle Truckee River watershed. The number of volunteer participants and total number of sites monitored will also dictate success of this project.

13. Grant match.

Match amount to be provided:		\$32,675
Match details:	Match is:	
	Cash	
	In-kind	Each volunteer contributes approximately 8 hours per year at a value of \$20 per hour = \$160 per volunteer each year. 100 volunteer participants each year = \$16,000 per year. Total volunteer match: \$32,000 Contribution by USGS to run coliform data analysis: \$135 per hour on an annual basis. 5 hours total = \$675.
	For the cash portion of your match, is the funding already being held by the applicant for this project? NA	
Description of matching funds/in-kind donations:	The in-kind matching funds are provided by the volunteers who help to monitor the sites and collect data Additional in-kind match is provided by the USGS who runs coliform samples at the Truckee lab once a year.	

ATTACHMENTS

These documents noted below have been submitted previously but are still available and can be submitted again upon request.

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency's IRS 501(c)(3) Tax Determination Letter
- Copy of the agency's most recent IRS Form 990

14. BUDGET

ITEM	TRF REQUEST	OTHER FUNDING NAME	MATCH \$	TOTAL
Project Management & Oversight	\$5,200			\$5,200
Volunteer Coordination	\$28,380	Volunteer assistance	\$32,000	\$60,380
Data Analysis	\$10,800	United States Geological Survey	\$675	\$11,475
Equipment and Supplies	\$5,620			\$5,620
TOTAL	\$50,000		\$32,675	\$82,675

Attachment A
Full list of grants to TRWC from the Truckee River Fund

Date awarded:	March, 2018
Project title:	Truckee Meadows Restoration Project – Phase 2 Construction
Amount of Award:	\$30,000
Date awarded:	October, 2017
Project title:	Truckee River Tributaries Sediment Reduction Project
Amount of Award	\$165,000
Project title:	F4M Restoration Culvert Outflow
Amount of Award	\$50,000
Date awarded:	September 2016
Project title:	Donner Creek Concept Designs
Amount of Award	\$40,000
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization
Amount of Award	\$92,000
Date awarded:	April 2016
Project title:	Johnson Canyon West #2
Amount of Award	\$67,000
Date awarded:	October 2015
Project title:	Johnson Canyon West #1
Amount of Award	\$25,000
Date awarded:	September 2014
Project title:	Donner Lake Watershed Assessment
Amount of Award	\$70,000
Date awarded:	March 2014
Project title:	Truckee Wetlands Restoration – Phase 3,4, & 5 – Design
Amount of Award	\$50,000
Date awarded:	October 2013
Project title:	Truckee River Big Chief Corridor –Restoration
Amount of Award:	\$150,000
Date awarded:	March 2013
Project title:	Truckee River Big Chief Corridor – Implementation
Amount of Award	\$11,000
Date awarded:	March 2013
Project title:	Middle Martis Wetland Restoration – planning and design
Amount of Award:	\$120,000
Date awarded:	August 2012
Project title:	Phase 2 Coldstream Canyon Floodplain Restoration
Amount of Award:	\$196,000
Date awarded:	March 2012
Project title:	Lacey Creek and Meadow Assessment
Amount of Award	\$50,000
Date awarded:	March 2012

Project title:	Negro Canyon Restoration – pre-project monitoring
Amount of Award:	\$25,000
Date awarded:	October 2010
Project title:	Coldstream Canyon Floodplain Restoration Project
Amount of Award:	\$135,000
Date awarded:	August 2010
Project title:	Truckee Wetlands Restoration Project – Phase 2
Amount of Award:	\$40,000
Date awarded:	July 2006
Project title:	“This Drains to the Truckee River” Storm Drain Stenciling Pilot Project
Amount of Award:	\$9,300

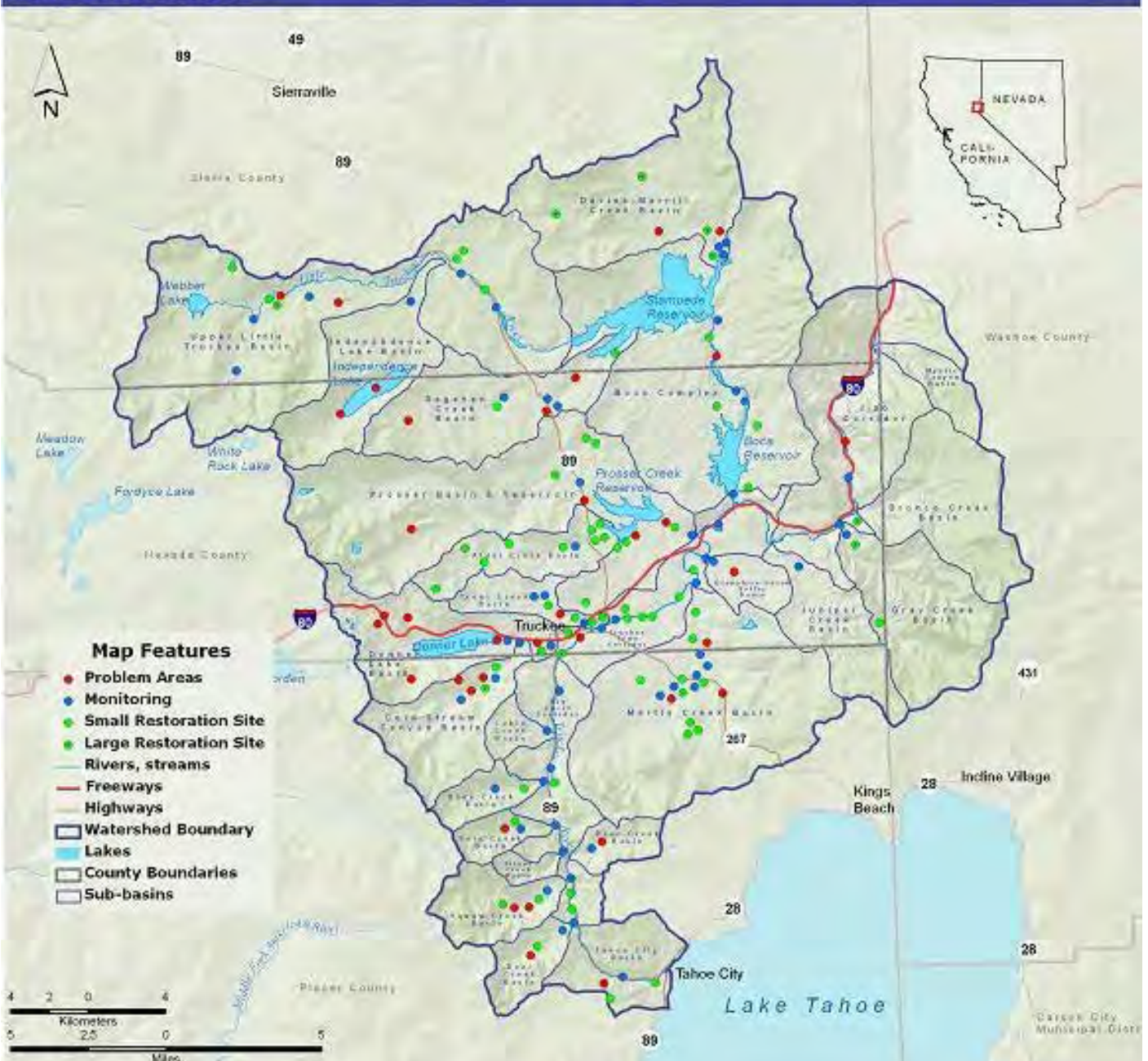
Truckee River Watershed Council –
Water quality monitoring:

Restoration sites and monitoring locations

Middle Truckee River Watershed: Restoration sites and monitoring locations.

Monitoring locations are indicated by blue dots

Watershed Projects: Completed, Ongoing and Planned for the Middle Truckee River Watershed



Map created by Digital Mapping Solutions.

Truckee River Watershed Council – Water quality monitoring:

Program Photos

Truckee River Watershed

Water Quality Monitoring and Adopt-A-Stream Program



Truckee River



Little Truckee River below Boca Dam



Martis Creek



Prosser Creek



Team Leader Training – Sagehen Creek



Team Leader Training – Sagehen Creek

Truckee River Watershed Council –
Water quality monitoring:

Comment letter to Lahontan Water Board
regarding de-listing of Truckee River TMDL

530.550.8760
P.O. Box 8568
Truckee, CA 96162
truckeeriverwc.org



Truckee River Watershed Council

Collaborative solutions to protect, enhance and restore the Truckee River Watershed

California Department
of Fish and Wildlife

California Department
of Parks and Recreation

California Department
of Water Resources

California Fly Fisher
Magazine

GlenShire Homeowners
Association

DMB/Highlands Group, LLC

East West Partners

Friends of Squaw Creek

KidZone Museum

Lahontan Regional
Water Quality
Control Board

Mountain Area
Preservation

Nevada County

North Lake Tahoe
Resort Association

Northstar California

Placer County

Placer County Water
Agency

Sagehen Creek Field
Station - UC Berkeley

Sierra Business Council

Sierra County

Sierra Watch

Squaw Valley and
Alpine Meadows

Tahoe Truckee
Sanitation Agency

Town of Truckee

Trout Unlimited

Truckee Donner
Land Trust

Truckee Donner Public
Utility District

Truckee Meadows
Water Authority

U.S. Army Corps of
Engineers

USDA Forest Service
Tahoe National Forest

Carly Nilson

2501 Lake Tahoe Blvd.

South Lake Tahoe, CA 96150

May 16, 2014

RE: 305(b)/303(d) Integrated Report, April 2014

Thank you for the opportunity to offer comments on the recently released Clean Water Act Sections 305(b) and 303(d) Integrated Report (Integrated Report) for the Lahontan Region.

Support for Maintaining Listings

The Truckee River Watershed Council (TRWC) supports maintaining the listings for water bodies in the Truckee River watershed, including the Middle Truckee River, Donner Lake, and Squaw Creek. This comment letter will focus on data regarding the Middle Truckee River.

We agree with the conclusion presented in the Integrated Report Staff Report that the Truckee River is not ready for delisting. As stated on Page 10 of the Report, we agree that there needs to be further investigation of the current sediment target and turbidity water quality objectives.

Data in Support of the Listing

Impairment of Beneficial Uses. The Integrated Report is based on data collected through 2010. Data TRWC has collected since 2010 indicate that:

1. The current TMDL standard may not detect impairment of beneficial uses.
2. Beneficial uses are impacted in the Truckee River.

In 2010 and 2011 TRWC implemented a monitoring plan in support of the Truckee River TMDL. The monitoring program consisted of suspended sediment and turbidity monitoring as well as bioassessment studies.

Suspended Sediment Concentration. Our suspended sediment (SSC) and turbidity monitoring focused on three key tributary streams: Cold Creek, Donner Creek, and Trout Creek. The SSC data collected from these tributaries demonstrated that for the monitoring period the three tributary streams had suspended sediment concentrations below the TMDL standard, which is that the SSC concentration is 25 mg/L or less 90% of the time.

Bioassessment. In contrast, the bioassessment data strongly supported that beneficial uses are impaired in the Truckee River. We summarize below the key results from these studies.

We developed a monitoring program with Dr. David Herbst of U.C. Santa Barbara – Sierra Nevada Aquatic Research Laboratory. In 2010, we conducted a “reference-test” study comparing several sites along the Truckee River to similar eastern Sierra streams with less watershed disturbance (Carson, Walker, and Markleeville Creek). **Compared to similar reference streams, the Truckee River consistently scored lower on the Eastern Sierra Index of Biological Integrity.** All sampling sites on the Truckee River scored below the “not supporting of beneficial uses” or “partially supporting” thresholds. Reference streams scored as “supporting” or “partially supporting”.

Based upon this work, we completed additional monitoring in 2011 to more specifically examine the relationship between sediment and biological communities. We completed a “patch-scale” study to examine the relationship between deposited sediment and biological condition of the benthic community. **There were significant differences in biological conditions starting with sediment coverage of just 20%. At 80% or greater sediment coverage there were very significant decreases in biological condition.**

The differences in biological condition include:

- Decrease in the quantity and quality of food resources, meaning that both the number and size of benthic macroinvertebrates decreased with increasing sediment coverage;
- The BMI community shifted away from organisms intolerant of pollution towards species that are more tolerant of poor water quality.

Sediment Deposition. In addition to the bioassessment work, we completed surveys to assess the extent of sediment deposition near our bioassessment sampling sites. In these surveys, we found that:

- **Sediment deposition was fairly widespread;**
- At six of the ten sampling sites, 50% or more of the survey points measured sediment coverage in the excessive category (80 – 100% coverage by fine sediment).

Beneficial Uses Not Supported. Taken together, these studies indicate that beneficial uses including “Cold Freshwater Habitat” and “Spawning Reproduction and Development” are likely to not be fully supported in the Truckee River due to impacts on the base of the food web and excess deposited sediment.

De-listing is Pre-Mature

We recognize that data from our studies are not included in the current Integrated Report. We are highlighting our current data to support the Lahontan Water Board staff conclusions that:

- De-listing is premature;

- Beneficial uses are not being supported;
- The current TMDL numeric standard does not appear to be sufficient to detect actual impairment from excess sediment.

All data can be found in reports posted on our website: www.truckeeriverwc.org/about/documents.

Next Steps

We would like to formally request a time at a future Lahontan Water Board meeting to present the results of our TMDL monitoring program in greater depth.

Thank you for considering our comments.

Sincerely,

Handwritten signatures of Beth Christman and Lisa Wallace. Beth's signature is on the left, and Lisa's is on the right, connected by a horizontal line.

Beth Christman
Director of Restoration Programs

Lisa Wallace
Executive Director

Organization Name:	Tahoe Resource Conservation District		
Type:	501(c)(3) EIN#	Governmental entity? Y - local	
Address:	870 Emerald Bay Road, Ste. 108 South Lake Tahoe, CA 96150		
Project Name:	Truckee River Watershed AIS Survey and Control, and Trash Removal		
Amount requested: \$346,520.76	Website: www.tahoercd.org		
This funding will be used to (complete this sentence with a max of 2 sentences):	survey extent of Eurasian watermilfoil downstream of Alpine Meadows Rd, augment current control efforts to remove Eurasian watermilfoil from the Truckee River, and remove trash from Truckee River		
Key People: Mollie Hurt, Nicole Cartwright Sara Matthews	Director:	Nicole Cartwright	
	Board Chair:	Carl Ribaud	
	Project Contact:	Name:	Mollie Hurt
		Position:	Director of Programs
		Phone:	530-543-1501 x. 102
		Fax:	530-543-1660
Email:	mhurt@tahoercd.org		
Organization Mission:	The mission of the Tahoe Resource Conservation District is to promote conservation, stewardship and knowledge of the Lake Tahoe region's natural resources by providing leadership and innovative environmental services to all stakeholders.		
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes,		
	Date awarded:	December 17, 2009	
	Project title:	Watercraft Inspection Program for the Truckee River	
	Amount of Award:	\$231,123	
	Date awarded:	October 25, 2010	
	Project title:	Truckee Regional AIS Prevention Program	
	Amount of Award:	\$296,013	
	Date awarded:	October 20, 2011	
	Project title:	Truckee Regional AIS Prevention Program	
	Amount of Award:	\$267,627	
	Date awarded:	September 19, 2012	
	Project title:	Truckee Regional AIS Prevention Program	
	Amount of Award:	\$179,455	
	Date awarded:	October 30, 2013	
	Project title:	Truckee Regional AIS Prevention Program	
	Amount of Award:	\$115,000	
	Date awarded:	March 21, 2014	
	Project title:	Truckee River Eurasian Watermilfoil Survey and Removal	
	Amount of Award:	\$59,860	
Date awarded:	October 22, 2015		
Project title:	Truckee River Watershed AIS Prevention and Control		
Amount of Award:	\$112,000		

DESCRIPTION OF PROJECT UNDER CONSIDERATION

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☒ C. Projects that remove pollution from the Truckee River.
- ☒ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- ☐ E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. All projects are required to have measurable outcomes:

1. Project Goals:

- 1) Survey the extent of Eurasian watermilfoil below Alpine Meadows Road in order to strategize continued removal of infestation.
- 2) Continue successful removal of Eurasian watermilfoil below the Tahoe City dam to improve water quality and recreational access.
- 3) Determine success of plant control through effectiveness monitoring.
- 4) Remove all underwater trash within the proposed AIS Truckee River Survey and Control project area.
- 5) Continue to develop and pursue additional partners and funding—in particular, the California River Parkways Grant Program-Prop 68 Parks and Water Bond of 2018.

Measurable Outcomes:

- 1) Extent of Eurasian watermilfoil surveyed will be mapped and displayed using ArcGIS to show decrease in areal extent of infestation pre- and post- implementation, and to estimate cost of total removal in the Truckee River.
- 2) Using diver-assisted hand removal and bottom barriers, remove Eurasian watermilfoil infestation within a 1-mile section of the Truckee River between the outlet at Lake Tahoe and River Ranch at Alpine Meadows Rd. Outcome will be measured by effectiveness monitoring protocols.
- 3) Using established effectiveness monitoring protocols, record and report percent cover, aerial extent, and composition of pre- and post- removal efforts.
- 4) Provide photographic evidence of trash removed from the Truckee. These visuals can be used in outreach efforts through Take Care and Tahoe RCD media outlets.
- 5) Cost-share commitment from multiple stakeholders, either through in-kind or cash.

2. Project location.

The Truckee River is the sole outlet for the Lake Tahoe Basin and delivers a critical water resource from the high Sierra Nevada to its terminus at Pyramid Lake in the Great Basin. This water resource is important for a multitude of communities and irrigation districts throughout the Truckee River Valley and adjacent areas; its protection therefore is a high priority to the region. This project has multiple objectives, encompassing an aquatic invasive plant survey identifying the extent of the infestation along the Truckee River, aquatic plant removal on a 1-mile stretch between the outlet of Lake Tahoe and Alpine Meadows Road, the systematic

removal of trash from this section, and education and outreach to alert the public about impacts of invasive species and pollution on water quality. This project serves a section of the Truckee watershed that is important for water supply, recreation users, boaters, fishermen, and is the main inflow to Pyramid Lake. See Attachment 1.

3. **Project description Aquatic Plant Removal** – In 2015, the Truckee River Fund provided the Tahoe RCD secured funding to conduct aquatic invasive plant survey and control efforts in the Truckee river below the Tahoe City dam. This work was undertaken in coordination with UC Davis who conducted effectiveness monitoring of two techniques for plant removal; installation of bottom barriers, and diver-assisted suction removal. The recent control efforts and subsequent monitoring on the Truckee River have provided sufficient data to demonstrate year-to-year effectiveness in aquatic plant control; along with information on cost, timing, deployment method, re-colonization rates and general logistics. In order for the treatment to be effective and prevent the risk of infestation the following year, divers meticulously remove all parts of the plants including roots. While this work is labor-intensive, it offers the best results, with very little to no plant growth occurring in the same location the following year. Surveys conducted post-implementation revealed percent cover of Eurasian watermilfoil decreasing to 0%, and percent cover of silt also decreasing to near 0% following removal of aquatic invasive plants. See Attachment 2 – UC Davis Monitoring Report.

A drone survey, validated by a follow-up diver survey would accurately document the areal extent of the infestation of Eurasian watermilfoil below the Tahoe City dam. Divers would continue removing plants via suction removal when water levels allow, and barriers would be used if water levels are too low for suction removal. Simultaneously, divers would remove all trash observed while conducting their work. Tahoe RCD staff would provide an educational component to this project by interacting with boaters while divers are working to explain how aquatic invasive plants impact the Truckee River and those who recreate in the river and along the river channel.

4. Grant priorities. This proposed project addresses TRF's grant priorities I., VI., and VII.

I. Aquatic Invasive Species (AIS): Tahoe RCD has demonstrated its leadership and effectiveness at tackling aquatic plant infestations in Lake Tahoe and the Truckee River. Tahoe RCD has completed 3 plant control projects in Lake Tahoe in the last 2 years. Surveillance monitoring is also conducted annually at the former 6-acre Eurasian watermilfoil infestation that was treated together with California State Parks (CSP). Since 2014, surveillance surveys by CSP divers have detected no aquatic invasive plants in Emerald Bay, even though thousands of boats travel to Emerald Bay each year with the potential to transport aquatic plants if they are launching from the Tahoe Keys.

VI. Stewardship and Environmental Awareness: Aquatic invasive plant control projects are well-supported by Tahoe RCD's AIS Outreach program and also interpreted by the League to Save Lake Tahoe Eyes on the Lake program. These programs draw awareness and teach stewardship skills such as plant identification to Lake Tahoe and Truckee River locals and visitors alike.

VII. Meet Multiple Objectives: Tahoe RCD's contracted divers frequently observe trash and pollutants while implementing projects in Lake Tahoe and the Truckee River. Pollutants detected include road debris, construction debris, and recreational user items (sunglasses, phones, water bottles,

water toys, etc). See Attachment 3.

5. Permitting. The aquatic plant removal activities are currently permitted. Tahoe RCD has obtained permits through a comprehensive permitting strategy that includes the entire nearshore of Lake Tahoe as well as the corridor of the Truckee River from the Lake Tahoe outlet to Alpine Meadows Road. A Mitigated Negative Declaration was developed to support CEQA/NEPA requirements for this comprehensive permitting strategy. The agencies responsible for permitting include the Tahoe Regional Planning Agency, California Department of Fish and Wildlife, Lahontan Regional Water Quality Control Board, California State Lands Commission and US Army Corp of Engineers. Additionally, the California Department of Fish and Wildlife permit requires a Verification Request Form (VRF) for each working site.

6. Future land use. The SR89/Fanny Bridge Community Revitalization project is underway. In 2017, we coordinated our aquatic invasive plant work with the Federal Highway Administration representative facilitating the project. There were no interruptions to the plant control work due to the revitalization project. Tahoe RCD staff will continue to coordinate with FHA staff working on this project. No other future development plans are expected to interfere with plant control work.

7. Future phases.

The goals of this project require multi-year efforts to remove aquatic invasive plants in the Truckee River and determine the extent of the infestation. Work conducted on the river so far has demonstrated that barriers and suction removal, as well as surveillance monitoring is time well-spent. Currently, the removal project is supported by the Tahoe Fund and through the California Department of Water Resources Integrated Regional Watershed Management Program (\$150,000). In addition, Tahoe RCD received \$390,000 from CTC – Prop 1 to conduct environmental review for new methods of plant control in Lake Tahoe and the Truckee River so the pace and scale of control can surpass the spread of this species. Tahoe RCD is also pursuing other funds to supplement aquatic invasive plant control on the Truckee River--in particular, the California River Parkways Grant Program-Prop 68 Parks and Water Bond of 2018.

8. Principals involved.

The principals involved include Tahoe RCD District Manager, Director of Programs, and Aquatic Invasive Plant Control Program Coordinator.

9. Staff positions involved.

Staff positions involved include the same staff as noted in #8 above, i.e. 2 permanent full-time and 1 seasonal full-time staff, represented by the Executive Director, Director of Programs and Aquatic Invasive Plant Control Program Coordinator. Tahoe RCD Resource Conservationists would serve as topside crew for the contracted divers.

10. Volunteers involved.

There are no volunteers anticipated at this time.

11. Time Line of Project: Project planning would commence in early 2019, with implementation potentially starting in June 2019 depending on river flows. If a dive crew of 8 divers can be scheduled, it is feasible that 1 mile (~4 acres) of plant removal could be accomplished in 2019. If a 4-person crew is used, accomplishing 1 mile (~4 acres) of river would likely take 2 years, 2019 and 2020. Ideally, an

8-person crew would be used to increase the pace and scale of plant removal along the Truckee River to move toward outpacing the growth of the infestation downstream.

12. Success. Tahoe RCD will measure success by documenting the reduced areal extent of aquatic invasive plants detected within the river channel. In the 0.25 miles of river that has been successfully treated, the annual resurvey has taken approximately 1-2 days, resulting in an ~95% reduction in effort from the original treatment.

13. Grant match. A new partner in this removal effort is the Department of Water Resources-Integrated Regional Watershed Management grant program. A funding match of \$125,000 from this grant would be applied beginning with work being conducted from 2017 forward through 2019.

14. Project budget Funds from Truckee River Fund would be used to pay for staff time to plan and implement project, staff time to administer the project (invoices and reporting), assistance from Resource Conservationists to serve as topside assistance, and contracted diver time. Match funds would also pay for these expenses.

Grant Match

Match amount to be provided:		\$ 125,000.00
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.	
	Match is:	
	Cash	\$ \$125,000
	In-kind	\$
Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.		
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No X_ Tahoe RCD is currently contracted with Dept of Water Resources for these amounts and all expenses are reimbursable.		
Description of matching funds/in-kind donations:	These funds were supplied by the Department of Water Resources Integrated Regional Watershed Management funds for the Aquatic Invasive Species Control and Monitoring project. These funds have only been spent on the aquatic invasive plant control on the Truckee River just above the Tahoe City Dam and below the Tahoe City Dam. A funding match of \$125,000 from this grant would be applied beginning with work being conducted from 2017 forward through 2019.	

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization's name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Please notify us if you would like us to provide these documents.

Nonprofits submit:

- ☒ Last audited financial statements if your organization has been audited
- ☒ List of Board of Directors
- ☒ Copy of agency's IRS 501(c)(3) Tax Determination Letter
- ☒ Copy of the agency's most recent IRS Form 990

Governmental entities submit:

- ☐ Departmental budget in lieu of audited financial statements

50 Washington Street, Suite 300, Reno, NV 89503
 Phone 775-333-5499 // Fax 775-333-5487 // nevadafund.org
 Connecting people who care with causes that matter.

	TRF Request	Match	Total
Tahoe RCD Personnel			
District Manager	\$1,962.00	\$ -	\$1,962.00
Director of Programs	\$2,360.40	\$ -	\$2,360.40
Program Coordinator	\$2,500.00	\$ -	\$2,500.00
Subtotal	\$6,822.40	0	\$6,822.40
Cash Match			
Integrated Regional Watershed Management	\$ -	\$125,000.00	\$125,000.00
Subtotal	0	\$125,000.00	\$125,000.00
Operating			
Education & Outreach Material	\$	\$ -	\$0.00
Permitting	\$500.00	\$ -	\$500.00
Disposal	\$1,500.00	\$ -	\$1,500.00
Transportation/Mileage	\$2,000.00	\$ -	\$2,000.00
Equipment Fuel	\$500.00	\$ -	\$500.00
Equipment Supplies	\$10,000.00	\$ -	\$10,000.00
Subtotal	\$14,500.00	0	\$14,500.00
Survey and Removal Activities			\$0.00
Diving Subcontractor	\$250,000.00	\$ -	\$250,000.00
Resource Conservationists	\$30,000		\$30,000.00
Subtotal	\$280,000.00		\$280,000.00
Subtotal of all project costs	\$301,322.40	\$125,000.00	
Admin 15 %	\$45,198.36		
PROJECT TOTAL	\$346,520.76	\$125,000.00	\$471,520.76



Figure 1. Proposed area for aquatic invasive plant removal on the Truckee River.





Figure 2. Examples of trash collected in the Truckee River and Lake Tahoe in 2017.





Figure 3. Examples of trash collected in the Truckee River and Lake Tahoe in 2017.

Organization Name:	Nevada Tahoe Conservation District																				
Type:	501(c)(3) EIN# 33-1044148	Governmental entity? Yes																			
Address:	PO Box 915, Zephyr Cove, NV 89448																				
Project Name:	Burnt Cedar Beach Water Quality Improvement Project																				
Amount requested: \$232,687.50	Website: www.ntcd.org																				
This funding will be used to (complete this sentence with a max of 2 sentences):	The Project will design, permit and construct stormwater improvements to Burnt Cedar Beach in Incline Village, NV. The project will reduce the input of sediment, nutrients, and other urban stormwater pollutants flowing from Lakeshore Drive and the upstream neighborhood into Lake Tahoe and eventually to the Truckee River.																				
Key People:	Director:	Meghan Kelley, P.E.																			
	Board Chair:	Glen Smith																			
	Project Contact:	Name:	Meghan Kelly																		
		Position:	District Manager																		
		Phone:	775.586.1610 x30																		
		Fax:	775.586.1612																		
		Email:	mkelly@ntcd.org																		
Organization Mission:	To promote the conservation and improvement of the Lake Tahoe Basin's natural resources by providing leadership, education, and technical assistance to all basin users.																				
Has your organization received other grants from the Truckee River Fund? Yes No X (use additional page if necessary)	If yes, <table border="1"> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> </table>			Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:	
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Amount of Award:																					

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☐ A. Projects that improve bank or channel stabilization and decrease erosion.
☒ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
☒ C. Projects that remove pollution from the Truckee River.
☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
☐ E. Other projects that meet the evaluation criteria.

¹ For proposals related to weed control/eradication, contact Tracy Turner at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



PO Box 915
400 Dorla Ct.
Zephyr Cove, NV 89448
Phone (775) 586-1610
Fax (775) 586-1612
www.ntcd.org

August 1, 2018

Lauren Renda
Truckee River Fund
50 Washington Street, Suite 300
Reno, NV 89503

Dear Ms. Renda,

The Nevada Tahoe Conservation District (NTCD) respectfully submits this proposal to complete the Burnt Cedar Erosion Control Project in Incline Village, Nevada. The Project will reduce the input of sediment, nutrients, and other urban stormwater pollutants flowing from Lakeshore Drive and the neighborhood above into Lake Tahoe and eventually to the Truckee River. The project will use principles from Low Impact Development and Green Stormwater Infrastructure to attain benefits such as improved water quality, climate resilience, native aesthetics, and controlled water quantity during large storm events. Specifically, the project will achieve the following goals and measurable outcomes:

1. Reduce the delivery of sediment and nutrients to Lake Tahoe by treating urban stormwater runoff using infiltration stormwater features with native landscaping.
2. Reduce upland erosion and protect existing recreation infrastructure by conveying overflow in an armored path to Lake Tahoe.
3. Achieve Lake Tahoe TMDL goals by obtaining up to 6 Lake Clarity Credits or a reduction of 1200 lbs of fine sediment to Lake Tahoe annually.

The proposed Project meets multiple Truckee River Fund objectives including watershed improvements, local stormwater improvements, native revegetation, and stakeholder engagement. The iconic Truckee River originates in Lake Tahoe and the water quality of the Lake is instrumental to that of the River. The Project will improve water quality through treatment as well as the protect baseflow water quantity by mitigating the flashy hydrograph that originates from a developed upland watershed. The Project is also a priority for the Incline Village General Improvement District (IVGID) since it is located in a visible and highly-used area in their jurisdiction and has been a source of local complaints for years. IVGID has pledged support for the project and will provide the necessary match if State of Nevada funding is not procured.

Thank you for the opportunity to fund projects that improve the Truckee River Watershed.

Sincerely,

A handwritten signature in blue ink that reads "Meghan C Kelly".

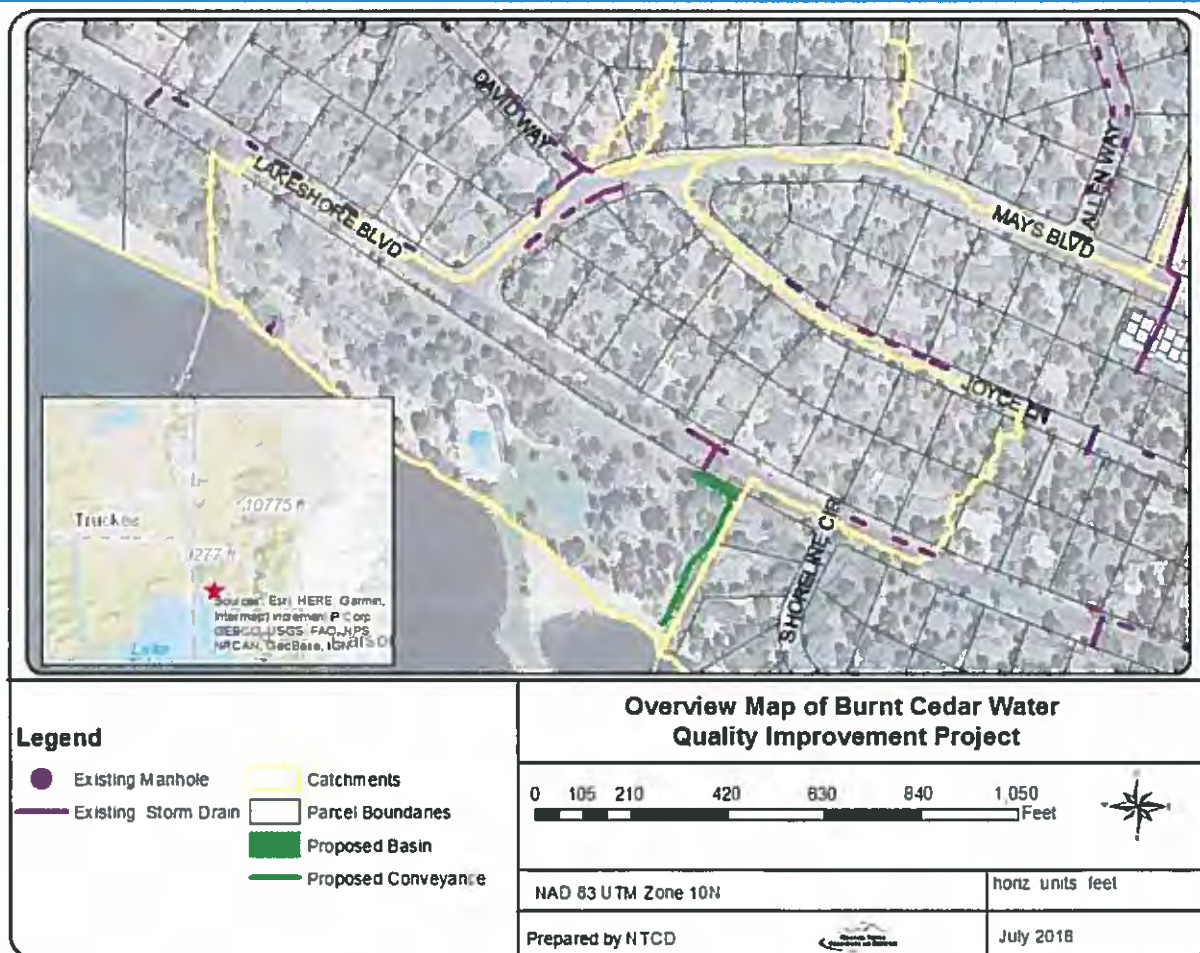
Meghan Kelly, P.E.
District Manager

Truckee River Fund: Burnt Cedar Beach Water Quality Improvement Project
1. PROJECT GOALS AND MEASUREABLE OUTCOMES

The project will achieve the following goals and measurable outcomes:

1. Reduce the delivery of sediment and nutrients to Lake Tahoe by treating urban stormwater runoff using infiltration stormwater features with native landscaping.
2. Reduce upland erosion and protect existing recreation infrastructure by conveying overflow in an armored path to Lake Tahoe.
3. Achieve Lake Tahoe TMDL goals by obtaining up to 6 Lake Clarity Credits or a reduction of 1200 lbs of fine sediment to Lake Tahoe annually.

The success of the project will be measured through post-storm event observation as well as using the established Pollutant Load Reduction Model adopted to track Tahoe TMDL achievement. The team will observe at least 5 storm events following the first year of installation and document the performance of the features using photographs and noting any erosion. The team will also use the Best Management Practices Rapid Assessment Method or BMP RAM utilized throughout the Tahoe Basin to track the stormwater features' infiltration rates and vegetative cover. The information will be provided to Washoe County so that they could register the Project in the Lake Clarity Crediting Program in the future. All results will be reported to the Truckee River Fund as well as the Incline Village GID and Washoe County within a year of project completion.

2. PROJECT LOCATION


Truckee River Fund: Burnt Cedar Beach Water Quality Improvement Project
3. PROJECT DESCRIPTION

The Project will design, permit and construct stormwater improvements to Burnt Cedar Beach in Incline Village, NV. The project will reduce the input of sediment, nutrients, and other urban stormwater pollutants flowing from Lakeshore Drive and the upstream neighborhood into Lake Tahoe and eventually to the Truckee River. The project will use principles from Low Impact Development and Green Stormwater Infrastructure to attain benefits such as improved water quality, climate resilience, native aesthetics, and controlled water quantity during large storm events.

See map in section 2, Project Location.



Figure 2: Existing Conditions at Burnt Cedar Beach

4. GRANT PRIORITIES

The proposed Project meets multiple Truckee River Fund objectives including watershed improvements (2), local stormwater improvements (3), native revegetation (4), and stakeholder engagement (8). The iconic Truckee River originates in Lake Tahoe and the water quality of the Lake is instrumental to that of the River. The Project will improve water quality through treatment as well as the protect baseflow water quantity by mitigating the flashy hydrograph that originates from a developed upland watershed. The Project is also a priority for the Incline Village General Improvement District (IVGID) since it is located in a visible and highly-used area in their jurisdiction and has been a source of local complaints for years. The site is mostly turf currently and the introduction of native and drought-resistant plants will improve the aesthetic, ecosystem, and climate resilience.

5. PERMITTING

Project permitting will include permits from Washoe County and TRPA for Construction.

Table 1. Permitting Schedule

Task	Complete Date
Project Permitting	March-May 2019

Truckee River Fund: Burnt Cedar Beach Water Quality Improvement Project
6. FUTURE LAND USE

The watershed that contributes stormwater to this outfall is fully developed and would likely only undergo redevelopment that complies with the Regional Plan for the Lake Tahoe Basin. The land would stay in Incline Village GID ownership for the foreseeable future.

7. FUTURE PHASES

No future phases are anticipated for this project. Design, permitting, construction, and monitoring are all included in this request.

8. PRINCIPALS INVOLVED
MEGHAN KELLY P.E., DISTRICT MANAGER/SENIOR ENGINEER, PART TIME

Meghan Kelly has over 12 years of experience within the environmental field in the Tahoe Basin and nearly 15 years of experience in monitoring, water quality, restoration, and erosion control. She has relevant project management, design engineering, environmental science, and monitoring experience with both public and private entities. She has specifically been involved with over 20 Tahoe stormwater treatment and stream restoration projects as a manager and on the technical side. She has a B.S. from Cornell University in Civil Engineering and an M.S. from the University of Michigan in Natural Resources, specializing in Aquatic Ecosystems. Meghan will be the project manager and engineer of record for the Project.

9. STAFF POSITIONS INVOLVED
MONICA GRAMMENOS P.E. QSD/QSP QISP, PROJECT ENGINEER, PART TIME

Monica Grammenos has over 14 years of experience in water quality, restoration, erosion control, drinking water, and sewer improvement projects. Over a decade of this experience has been for projects within the Lake Tahoe basin, both in California and Nevada. She is a professional engineer in California and Nevada as well as a registered QSP, QSD, and QISP. Her responsibilities include monitoring, inspection, project management, design, data analysis, technical reports, construction contract documents, contracts, budgeting, cost estimates, permitting, surveying, drafting, and review of Nevada water rights. She has a B.S. from University of California, Berkeley in Civil and Environmental Engineering and a B.A. from the University of California, Santa Cruz in Environmental Studies. For this project, Monica will be performing design, drafting, document writing, and construction inspection.

DOMI FELLERS, ENVIRONMENTAL SCIENTIST, PART TIME

Domi Fellers has over 11 years of experience within the environmental science field within the Lake Tahoe Basin. She has proficiency in water quality monitoring utilizing auto-samplers, passive samplers and data loggers, water quality analysis, environmental science, and geographic information systems mapping. She has been involved in monitoring for stream restoration projects and stormwater treatment projects along with applying the Lake Clarity Crediting Program Tools to assist the Nevada jurisdictions in meeting the Lake Tahoe TMDL. Her skills also include report writing, project management, and grant writing. For this project, Domi will be providing modelling expertise, document review, and field assistance.

DANA OLSON, ADMINISTRATOR/ENVIRONMENTAL SCIENTIST, PART TIME

Dana Olson is an environmental scientist who also works as a project administrator. Her work experience and educational background includes single family home BMPs, conservation landscaping and irrigation management, terrestrial and aquatic invasive species outreach and education. She will be providing invoicing, administration services, and field assistance for the Project.

10. VOLUNTEERS INVOLVED

Truckee River Fund: Burnt Cedar Beach Water Quality Improvement Project

No volunteer hours are planned to be a part of the Burnt Cedar Beach Water Quality Improvement Project, however, volunteers will be instrumental for upkeep of native plants in future years lead by IVGID maintenance staff. Potential volunteers include members of the Incline Village community as well as the Rotary Club.

11. TIME LINE

Table 1 below lists tasks and deliverables. Grant award and/or contract execution delays that would push the project start past November 2018 may cause difficulties in implementing the project on a 2019 construction schedule.

Table 2. Tasks and Schedule.

Tasks	Schedule
Task 1: Project Management	
Public Outreach	November 2018
Partner Coordination	Ongoing
TAC Meetings	November 2018
Task 2: Engineering, Design, and Permitting	
50% Design	November 2018
90% Design	February 2019
Final Design, Bid Package and Permits	March-May 2019
Task 3: Construction	
Construction Management	May- October 2019
Construction Inspection	May- October 2019
Direct Construction	May- October 2019
Task 4: Monitoring	
Photo Documentation and BMP RAM	5 times between October 2019 and September 2020
Final Report	December 2020

12. SUCCESS

The success of the project will be measured through post-storm event observation as well as using the established Pollutant Load Reduction Model adopted to track Tahoe TMDL achievement. The team will observe at least 5 storm events following the first year of installation and document the performance of the features using photographs and noting any erosion. The team will also use the Best Management Practices Rapid Assessment Method or BMP RAM utilized throughout the Tahoe Basin to track the stormwater features' infiltration rates and vegetative cover. The information will be provided to Washoe County so that they could register the Project in the Lake Clarity Crediting Program in the future. All results will be reported to the Truckee River Fund as well as the Incline Village GID and Washoe County within a year of project completion.

13. GRANT MATCH

Grant Match will be provided from the Incline Village General Improvement District (IVGID) in the amount of 25% of the Project costs. IVGID will contribute a total of \$78,062.50 to the Project.

Truckee River Fund: Burnt Cedar Beach Water Quality Improvement Project
14. PROJECT BUDGET

NTCD is a not-for-profit local government agency and therefore have competitive rates. The Team proposes a total project cost of \$312,250.00 to complete the major tasks as outlined in the Project description. Table 3 below lists costs by task.

Table 3. Summary Cost Estimate Per Task.

Task	TRF (75%)	IVGID Match (25%)	Total Proposed Cost
1. Design/Engineering	\$24,783.75	\$8,261.25	\$42,645.00
2. Permitting	\$2,499.00	\$833.00	\$4,340.00
3. Construction	\$189,633.75	\$63,211.25	\$258,245.00
4. Monitoring	\$2,673.00	\$891.00	\$4,920.00
OVERHEAD ~6.65%	\$14,598.00	\$4,866.00	\$19,464.00
Total	\$232,687.50	\$77,562.50	\$312,250.00

Cover Sheet

Date: July 31, 2018

Organization Name:	City of Reno		
Type:	501(c)(3) EIN#	Governmental entity? Yes	
Address:	1 E. First St., Reno, NV 89501		
Project Name:	Chalk Creek Restoration Project, Sapphire Ridge and Royal Vista Way		
Amount requested:	\$126,000	Website:	
This funding will be used to (complete this sentence with a max of 2 sentences):		Design and permitting of 1000 ft of channel and bank stabilization along Sapphire Ridge and Royal Vista Way in Chalk Creek, a Truckee River tributary	
Key People:	Director:	John Flansberg, Direct of Public Works	
	Board Chair:		
	Project Contact:	Name:	Theresa Jones
		Position:	Associate Civil Engineer, Public Works
		Phone:	775-334-3311
		Fax:	775-334-2490
		Email:	jonest@reno.gov
Organization Mission:			
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary) See Attachment C	If yes,		
	Date awarded:		
	Project title:		
	Amount of Award:		
	Date awarded:		
	Project title:		
	Amount of Award:		
	Date awarded:		
	Project title:		
Amount of Award:			

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- ☒ A. Projects that improve bank or channel stabilization and decrease erosion.
☒ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
☒ C. Projects that remove pollution from the Truckee River.
☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
☐ E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

³ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

1. **Specific project goals and measurable outcomes and how you will measure and report them.**

Chalk Creek has been modified and relocated throughout the project area to accommodate residential and public infrastructure development. Development and modifications have destabilized the channel through hydromodification of the watershed, channel realignment and failure of previously installed improvements including a geotextile turf reinforcement mat, rock check dams and vegetation plantings resulting in excess erosion and deep channel incision. (See Project Site Photos - page X)

The project specific goals are:

Eliminate the routine discharge of significant sediment to the Truckee River by fixing the continued channel downcutting and bank erosion.

Establish a more naturally functioning stream and riparian corridor by addressing channel and flood capacities. A holistic approach to approach to stream restoration will be applied. Existing data will be compiled and reviewed to understand the failure mechanisms of the original BMPs so that appropriate mitigative measures may be incorporated into the new design.

Outcomes will be measured and documented by visual inspection of stabilized creek bed and banks, reduced sediment deposition at culvert crossings and improved water quality parameters during storm event and ambient monitoring.

2. **Project Location**

Stabilization improvements will be designed for channel sections adjacent to Robb Drive at Sapphire Ridge Drive and Royal Vista Way (**See Attachment A**).

3. **Project description.** Include site map and aerial photos if applicable/possible. Maps and photos must fit on 8-1/2" x 11" paper. Cite any studies that support your project.

City of Reno is seeking design funding for two channel locations along Chalk Creek (**See Attachment B**).

Location one is an approximately 1000-foot long reach along Robb Drive at Sapphire Ridge Way that includes channel incision to a depth of 6 feet. Location two includes several channel bank areas along Royal Vista Way requiring stabilization of approximately 5000 square feet of actively eroding banks migrating towards public property and the back property fence lines of multiple homes.

Annual watershed assessments to tributaries to the Truckee River, funded by the Truckee Meadows Storm Water Permit Coordinating Committee (TMSWPCC) and dating back to 2008, identify channel reaches within Chalk Creek requiring stabilization. Two additional City of Reno studies, Chalk Creek Treatment Feasibility Assessment (2009) and Chalk Creek Watershed Characterization (2010) identify the need for erosion control and other measures to reduce elevated levels of nutrients and TDS.

While TDS is not specifically being addressed in this grant request, efforts to address increased stream flows due to urbanization of the Chalk Creek watershed will continue.

4. **Grant priorities.** Explain how the proposed project advances the TRF's grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative.

Ε'11σ μσβ1ΣΌΰ ΨΣΣύσ † ΨΠΩΨΨΨ ΰΰ four °σ†Ωΰ μσβΰσΰΰΣσ ~ †ΰΣσσ†ΣΣ ΨμσΰΦΨΨΨΰσ **Grant Priority II** incorporation erosion and sediment reduction measures within Chalk Creek †σΣ ΰ†Σ μσβΨ†σβ1 ΰΰ/ΣΌΰΰΦΣσ of this project. NDEP identifies eight impairments per the most current 303 (d) list including nutrients, sulfates, TDS, TSS. Channel stabilization projects such as this one will help address nutrient and TSS loading to the Truckee River.

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

4. **Grant priorities - Continued**

Local stormwater improvements (**Grant Priority III**) will be addressed as part of this project with the stabilization of several stormdrain outfall locations (**See Attachment B**).

Proposed channel and bank stabilization improvements identified for this project support rehabilitation to local tributary creeks and drainage courses in Chalk Creek (**Grant Priority V**).

Grant Priority VII, meeting multiple objectives is met by this project as identified above with descriptions for Grant Priorities II, III, and V.

The City of Reno Chalk Creek channel and bank stabilization has leveraged TMSWPCC funded annual tributary watershed assessments and water quality monitoring reports to determine the need for this project. Chalk Creek has been identified by TMWA and the TMSWPCC stakeholders and others for watershed restoration to enhance water quality (**Grant Priority VIII**).

5. **Permitting.** Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget.

Permitting of this project is estimated to take six months and cost approximately \$16,000. Required permits will be the USACE Section 404 permit, NDEP Section 401 Water Quality Certification and a Temporary Work in Waterways permit. Corps permitting is expected to be streamlined because of the relocation of Chalk Creek that occurred with the development. Please note that City of Reno's request is for design funding and therefore not subject to a permitting schedule.

6. **Future land use.** List any known or foreseeable zoning, land use, or development plans that may affect your proposed project.

Guiding Principal 7 of the City of Reno's recently adopted Master Plan identifies the need to conserve and protect Reno's natural resources and the environment. It specifically identifies the need to protect major drainage ways "to reduce the need for the expenditure of public funds to address flood hazards, erosion, and channel degradation resulting from structural modifications or other alterations.

Chalk Creek is identified in the City of Reno's 2007 Master Plan in the Open Space and Greenways Plan as an area requiring protection and the for the trail corridor to serve as an open space buffer between residential development and public lands on Peavine.

7. If **future phases** of the project will be needed, identify anticipated sources of funding.

Anticipated construction funding for this project will come from the City of Reno Sewer fund and from EPA 319 funds.

8. **Principals involved** in leading or coordinating the project or activities.

Communication and coordination with City of Reno, City of Sparks and Washoe County staff members of the TMSWPCC is important as the committee is charged with water quality improvements within the tributary watersheds to the Truckee River. As indicated in Section 3 of this application, annual watershed assessments have documented the need for channel and bank stabilization since 2008.

Coordination with the various Public Works divisions is key to the success of the present and future Chalk Creek projects. Public Works Environmental Engineering is in the process of developing a storm water utility. Moving forward, details of the utility will provide opportunities for residents to incorporate Low Impact Development principles in reducing storm water runoff as well as landscape irrigation runoff from properties in the Chalk Creek watershed. Along with the vegetation management plan being developed by Public Works Maintenance, the efforts will help ensure management and restoration efforts along will succeed in reducing nutrient, TSS and TDS loading to the Truckee River.

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

9. Number of **staff positions involved** in project: Two City of Reno staff - Part-time
10. Number of **volunteers involved** in project and an estimated number of volunteer hours. NO VOLUNTEERS
11. **Time Line** of Project. List key dates and include project milestones. *Note:* Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.

Consultant NTP: January 2019
50% Design: April 2019
90% Design: June 2019
Permitting Completed: December 2019
Construction Advertise: January 2020
Construction Completed: Summer 2020

12. **Success.** Tell the committee how we will know you succeeded in what you proposed to do.
See text within grant application
13. **Grant match.** See Page 5
14. **Project budget:** See Budget Page 6

Grant Match

Match amount to be provided:		\$ 49,000
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.	
	Match is:	
	Cash	\$ 34,000
	In-kind	\$ 15,000
	Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.	
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No <u>X</u>	
Description of matching funds/in-kind donations:	The City of Reno intends to provide a 39% match for this project through project management oversight and providing construction management oversight.	

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization's name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Nonprofits submit:

- ☐ Last audited financial statements if your organization has been audited
- ☐ List of Board of Directors
- ☐ Copy of agency's IRS 501(c)(3) Tax Determination Letter
- ☐ Copy of the agency's most recent IRS Form 990

Governmental entities submit:

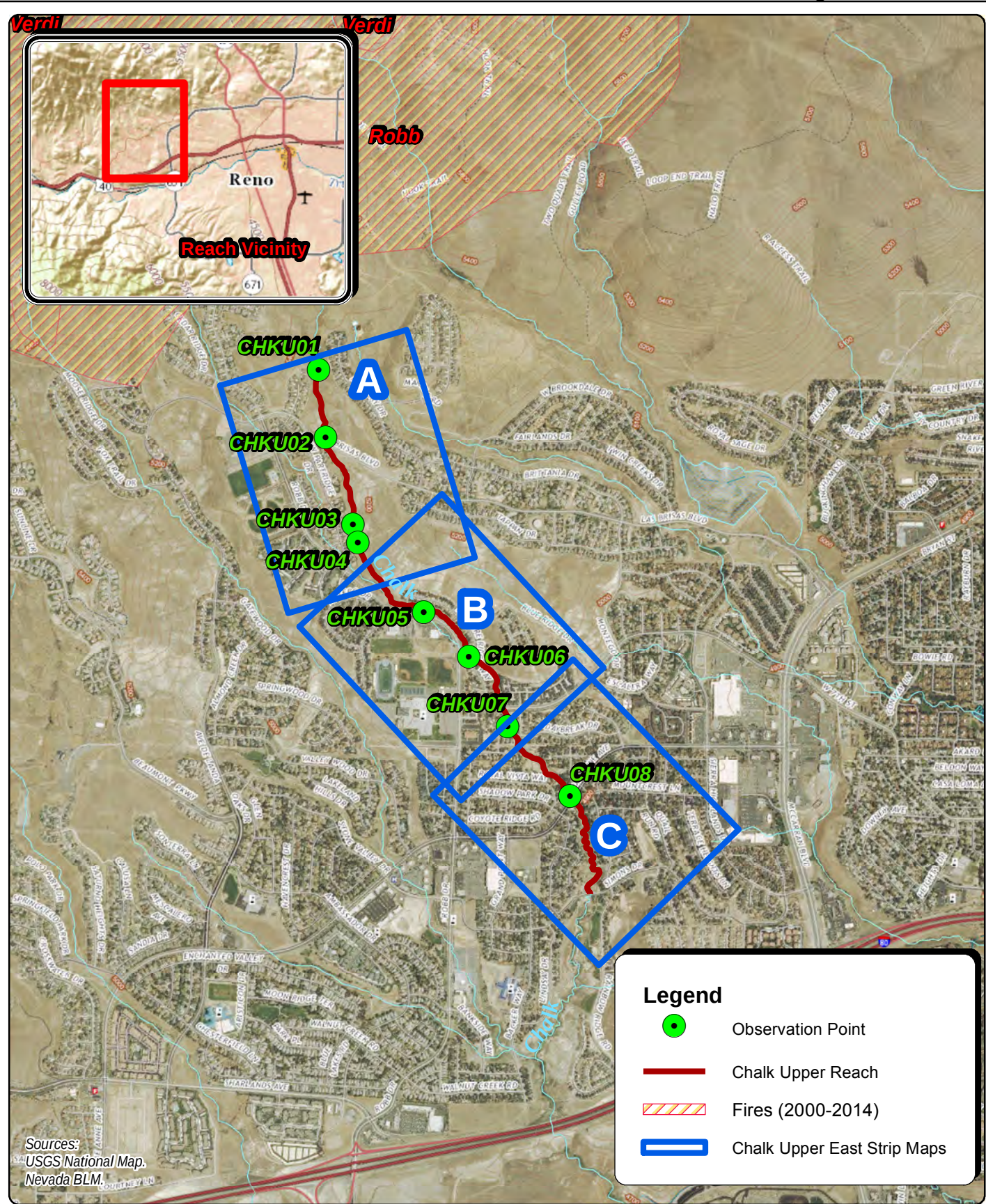
- ☒ Departmental budget in lieu of audited financial statements

SAMPLE BUDGET TEMPLATE

ORIGINAL PROJECT BUDGET					REIMBURSEMENT REPORT	
Budget Item Description*	TRF \$	Other Funding Name**	Match \$	Total	Expenditures to date TRF	Expenditures to date (other sources)
Design/Engineering	\$110,000	City of Reno	\$ 15,000	\$125,000	\$	
Permitting	\$16,000		\$	\$ 16,000		\$
Labor--paid	\$ -		\$	\$	\$	
Labor--volunteer (\$20/hr)			\$	\$	\$	
Construction	\$ -	City of Reno	\$ TBD	\$		
Materials	\$ -		\$	\$		
Other Const. Mgmt.	\$ -	City of Reno	\$ 34,000	\$ 34,000		
Overhead (max 25%)	\$ -		\$	\$		
TOTAL	\$ 126,000		\$ 49,000	\$ 175,000	\$	\$
		**Explain status of other funding if not in hand.				
*These are sample descriptions.						
If project is to be implemented in phases, please separate budget into each phase.						
Indirect costs may not be counted as match.						

Chalk Creek Channel Restoration Project Photos





2016 Tributary Assessments
Chalk Creek Upper East Overview Map



LEGEND

 EXISTING STORM DRAIN WITH CONNECTION POINT

 WASHOE COUNTY PARCELS

Attachment C

Truckee River Fund

City of Reno Funded Projects

Note: Full project list and grant information available at: <http://truckeeriverfund.org/projects/index.shtml>

Award Date	Project Description	Amount Awarded	Project Manager
Dec-05	Chalk Creek TDS Loading to Truckee River Study	\$ 25,000	Terri Svetich
Jun-06	Watershed protection for the drinking water source of the Chalk Bluff Water Treatment Plant and protecting the Truckee River from non-point source pollution	\$211,000 (with \$52,719 returned to the fund)	Terri Svetich
Jun-06	Lower Steamboat Creek Restoration	\$ 86,000	Mahmood Azad
Jun-06	Urban Storm Water Quality Improvements	\$ 66,000	Terri Svetich
Nov-06	Restoration of Riparian Vegetation in a Channel at Sapphire Ridge in Chalk Creek Watershed	\$ 18,375	Terri Svetich
Feb-07	Chalk Creek Watershed Management for Water Quality to Minimize Non-Point Source Pollution from Reaching the Truckee River	\$ 250,000	Terri Svetich
Jul-08	Truckee River Watershed Map Web Tool	\$ 80,000	Lynell Garfield
Aug-08	Truckee River Bank Stabilization at Oxbow Park	\$ 207,750	Glen Daily
Nov-08	Chalk Creek Watershed TDS/Sulfate Reducing Wetland Pilot Project	\$ 163,000	Lynell Garfield
Nov-08	McKinley Arts & Cultural Center LID Demonstration Project and Installation Training	\$ 115,500	Lynell Garfield
Dec-09	Livestock Events Center Drainage Treatment System	\$ 75,000	Glen Daily
Mar-11	Livestock Event Center Treatment System- Phase 2	\$ 97,500	Glen Daily
Jul-13	Highland Canal Storm Drain Improvements Phase 1	\$ 400,000	Terri Svetich
Oct-15	Virginia Lake Water Quality Improvement Project	\$ 100,000	Glen Daily
Oct-15	Cemetery Drain Water Quality, Erosion Control and Drainage Project	\$ 77,500	Theresa Jones

Truckee River Fund Fall 2018 Request for Proposals

References

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