

TRUCKEE RIVER FUND

Enhancing and protecting our water resources

TRUCKEE RIVER FUND ADVISORY COMMITTEE

AGENDA

Thursday, August 23, 2019, 8:30 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>
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 May summary meeting minutes (**for possible action**)
5. August 15 field trip notes*
6. Fund balance report*
7. Hear nominations for and elect chair and vice chair for Advisory Committee (**for possible action**)
8. Discussion and possible approval of redirection of up to \$17,000 of the funding for the administrative and operating budget from Project #221 to make up the budget shortfall for the Portland Loo Operating and Maintenance fund (**for possible action**)
9. Review grant proposals to Truckee River Fund and select projects to be recommended for funding (**for possible action**)
10. Hear reports on completed projects: TRF #135, #137, #187, & #193 (Bill Bradley); #188 (Susan Lynn); #214 (Ron Penrose)*
11. Committee and staff comments*
12. Next meeting: November 22, 2019 (**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 MAY 17, 2019

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, May 17, 2019.

Those Present: Committee Members: Janet Phillips, Chairman; Mike Brisbin; Don Mahin; Brian Bonnenfant; Ron Penrose; and Candice Elder*. Also: Lauren Renda, Community Foundation of Western Nevada; Sonia Folsom, with TMWA; and Sylvia Harrison, Esq., McDonald Carano, LLP; Members of the Public: None.

* 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 present, so no public comment was given.

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

Agenda Item #4: Approve the February summary meeting minutes (for possible action): The Meeting Minutes (Transcript Summary) for February 28, 2019 was unanimously approved.

Agenda Item #5: Review completed projects: Reports were presented regarding the following projects:

#163, Truckee River Watershed AIS Prevention and Control, Tahoe Resource Conservation District. Lauren presented the report on Michael Cameron's behalf, since he can't be here, stating that they completed their goals and met the expectations, and adding that Michael recommended that we invite Mollie Hurt with TRCD to a future meeting to present an overview on boat inspections and milfoil, and invite Lisa Wallace with TRWC as a stakeholder in this project, so the group can make a better decision moving forward if they submit another proposal. This project can be closed out.

#171, Johnson Canyon Restoration, Truckee River Watershed Council. Lauren presented the report on Michael Cameron's behalf, stating that he rated them as exceeding the goals and expectations in all three categories. This project can be closed out.

#189, Big Chief: F4M Restoration Culvert Outflows, Truckee River Watershed Council. Lauren presented the report on Michael Cameron's behalf, stating that the project is complete and can be closed out. Also, Michael had a note that he had spoken with Eben Swain, and they had not yet been able to successfully secure additional funds, not from us, to implement another portion of culvert designs on Highway 89 but are continuing with their efforts there with a goal of 2020.

#199, Cold Stream Meadow Road Decommissioning & Restoration Project, Truckee Donner Land Trust. Lauren presented the report on Michael Cameron's behalf. They completed activities specified in the proposal, exceeded expectations, and met and exceeded stated goals. This project can be closed out.

#177, Donner Creek Bank Stabilization Downstream of Railroad Culvert Final Design, Truckee River Watershed Council (TRWC). Don Mahin reported that this project is partially complete, because they had buy-in from the property owner, who has the mobile home park, and they're going to be revamping that, and they want to coordinate that and do it all at once. So the design is at 90%. They freed up \$10,000 to return back to us, unallocated. They had funding for the final design and, they believe, construction. They might come back for some additional construction funds, and construction wasn't part of the original grant. This project can be closed out.

#190, #195 and #205, each one being Watershed Education Initiative, Sierra Nevada Journeys. Ron Penrose reported that he had a chance last year to go out to McCarran Ranch with Eaton Dunkelberger and was able to observe their trip activity, which looked to be pretty good, with interaction between staff, their educators and the students that were there. Sierra Nevada Journeys prepares and develops the watershed-based curriculum and do three in-the-classroom sessions and then do a field trip to see rehabilitation projects. He added that what he would like as a future follow-up is take a look at how they measure their success. Janet suggested comprehension before and after would be good to know. Lauren stated she'll talk to Eaton and see if we can get some examples. All three projects can be closed out. Janet noted that these three projects tie into Agenda Item #7.

#200, Truckee Meadows Restoration Project – Phase 2 Construction, Truckee River Watershed Council. Mike Brisbin reported that they met the expectations of the project being a success, improved the hydrologic function of the wetland complex and ephemeral drainage. This project can be closed out.

Agenda Item #6: Assign Advisors for Spring 2019 funded projects (for possible action): Advisors were assigned to projects as follows: Sierra Nevada Journeys, Ron; Truckee Meadows Nature Study Area, Brian; Truckee River Watershed McIver Dairy, Michael; Keep

Truckee Meadows Beautiful, Candice; Friends of Nevada Wilderness, Brian; Washoe County Parks, Mike; Nevada Land Trust, Ron; Great Basin Institute, Ron. The National Judicial College grant was withdrawn because neither of the designated people who should go to the conference were able to attend.

Agenda Item #7: Discuss entities providing K-12 education in Washoe County and consider mechanisms for reducing duplication and more efficient use of funds (for possible action): This agenda item was requested by Bill Bradley, who is not present today. The group discussed how this item came to be, possible criteria changes, more clearly defining goals so everyone is working on the same set of goals, coordination, and other suggestions and ideas for the RFP, or just leaving it the same. Sylvia provided input. A motion to add a general question to the RFP, for all projects, “Have you collaborated with other entities in relation to your proposal?” was unanimously approved. Also, Lauren will put together a list for everyone of all educational projects to see how spread out it is.

Agenda Item #8: Discuss possible fieldtrip options (for possible action): The group discussed past field trips and potential places to see on this next field trip, also discussed dates. The field trip was set for August 16th in the morning. Janet and Lauren will work on an itinerary per the group’s input. No action was taken.

Agenda Item #9: Discuss possible revisions to Fall Request for Proposal application (for possible action): Janet noted that this was discussed in Agenda Item #7. There were no other possible revisions suggested. No action was taken.

Agenda Item #10: Committee and staff comments: Mike commented that the TMWA picnic is coming on July 13th. Everyone was encouraged to attend as it is a very nice event that TMWA does showing their appreciation for the work that we do.

Agenda Item #11: Next meeting: August 16, 2019 (for possible action): Janet stated that she will not be able to attend, but hopefully Susan Lynn will be able to chair the meeting. There was discussion about changing the date of the meeting so Janet could attend, since there will be the election of chair and vice chair. The date of the next meeting was changed to August 23rd at the usual time, and the field trip will be on the 16th. No action was taken.

Agenda Item #12: Public comment (limited to no more than three minutes per speaker): There was no public present, so no public comment was given.

Agenda Item #13: Adjournment (for possible action): The meeting adjourned at 9:32 a.m. No action was taken.

TRUCKEE RIVER FUND ADVISORY COMMITTEE
DRAFT MINUTES OF THE AUGUST 16, 2019
MEETING OF THE ADVISORY COMMITTEE

The TRF Advisory Committee met on Friday, August 16, 2019, at TMWA, 1355 Capital Blvd, Reno, NV 89502. Vice Chair Susan Lynn called the meeting to order at 8:31 a.m.

1. ROLL CALL

Members Present: Brian Bonnefant, Michael Cameron, Susan Lynn, and Don Mahin

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

Public: Marlene Olsen, GoodStanding and Cammy Elquist LoRa

Members Absent: Bill Bradley, Mike Brisbin, Candace Elder, Ron Penrose, and Janet Phillips.

A quorum was not present.

2. DISCUSSION AND TOUR OF LOCAL FUNDED PROJECTS

Elena Larson, Truckee Meadows Park Foundation (TMPF), provided a tour of the former Rosewood Lakes Golf Course. TMPF received funding for projects #206 and #215 in 2018 and 2019, respectively to conduct the planning phase to create a community supported master plan to repurpose the former golf course into a nature study area as well as support the first-year operational phase. Ms. Larson explained there is plenty of collaboration and support for this project and are scheduled to have a public forum on September 4th at 6:00 pm to gain public input, which will be incorporated in the master plan.

Jeff Mann, City of Reno, provided a tour of the Oxbow Nature Study Area where project #52, awarded in 2008, supported restoration efforts to improve streambank to protect the banks from shearing from future flooding. Since the completion of the project, the river bank has withheld extreme river flows with only a small section showing signs of erosion. However, the trees that line the bank kept the pathway from washing out entirely.

Iris Jehl-Peppard, One Truckee River (OTR), discussed the progress and current status of the Portland Loo project at Broadhead Park, which is supported by projects #188 Phase 1 Action Plan (2017), #203 Watershed Management and Source Protection Plan (2018), and #221 River Restroom Project (2019). Ms. Jehl-Peppard stated that she has obtained numerous letters of support by local businesses around Broadhead Park to have a safe public restroom onsite; secured funding (pending approval) for operations and maintenance, a pending timeline for installation (there is a 3-4 month lag time for delivery); and showed the physical location for the restroom site. There are plenty of partner agencies who are working extremely hard to ensure the success of the first Portland Loo so that it may be easier to garner support for the next two (pending location and additional funding).

No action taken.

3. ADJOURNMENT

With no further discussion, Vice Chair Lynn adjourned the meeting at 11:55 a.m.

Sonia Folsom, Recording Secretary



Cover Sheet

Date: July 25, 2019

Organization Name:	Sierra Nevada Journeys																				
Type:	501(c)(3) EIN#01-0881587	Governmental entity? No																			
Address:	190 E. Liberty Street																				
Project Name:	Watershed Education Initiative																				
Amount requested: \$37,200	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:	Shane Tucker																			
	Project Contact:	Name:	Sean Hill																		
		Position:	Education Director																		
		Phone:	775-355-1688																		
		Fax:	775-329-1689																		
		Email:	sean@sierranevadajourneys.org																		
Organization Mission:	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 (use additional page if necessary)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>April 2019</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$36,207</td> </tr> <tr> <td>Date awarded:</td> <td>October 2018</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$36,207</td> </tr> <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> </table>			Date awarded:	April 2019	Project title:	Watershed Education Initiative	Amount of Award:	\$36,207	Date awarded:	October 2018	Project title:	Watershed Education Initiative	Amount of Award:	\$36,207	Date awarded:	March 2018	Project title:	Watershed Education Initiative	Amount of Award:	\$46,376
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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 Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



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 8,000 students and over 475 educators. This has been made possible 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 800 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.
89 parents and community members volunteer for the program and serve 267 educational service hours.	70% of students will define what happens to rainwater and associated non-point source pollutants after they enter a storm drain.
Provide 30 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.
	95% 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 800 students in 30 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:

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>



- 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
- 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**: **89** volunteers (including field educators and parent volunteers) will donate **267** 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	2019					
	July	Aug	Sep	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 800 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
<p>Deliver watershed education to 800 K-8th grade students from throughout northern Nevada.</p> <p>All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries.</p> <p>89 parents and community members volunteer for the program and serve 267 service hours.</p> <p>Provide 30 teachers with WEI extension lessons.</p>	<p>Internal SNJ database – Updated regularly throughout the year</p>
Outcomes	Tracking
<p>80% of students can correctly identify, label, and diagram the Truckee River Watershed.</p> <p>70% of students will use knowledge of storm drains to describe how individuals and communities can protect watersheds.</p> <p>80% of students will define what happens to rainwater and associated non-point source pollutants after they enter a storm drain.</p> <p>95% of students participating in “Hands in the River” curriculum complete a Truckee River issue case study on water quality in the watershed.</p> <p>90% of teachers will report that the program is helping to build critical thinking skills among their students.</p>	<p>Pre- and post-assessments – reviewed after the end of each program and presented in report at end of grant period</p> <p>Teacher surveys</p>

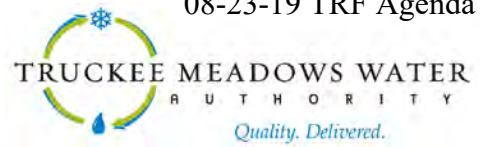
13. Grant Match

Match amount to be provided:		\$14,725 (39% of requested funds)
Match details:	Match is:	
	Cash	\$ 2,667
		\$12,058
	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.	



**COMMUNITY
FOUNDATION**
of Western Nevada

TRUCKEE RIVER FUND
Enhancing and protecting our water resources



14. Project Budget
Watershed Education Initiative (WEI) Budget

Item	Total	SNJ Match	Request
Education/Program Personnel	\$15,200	\$0	\$15,200
Volunteers	\$12,058	\$12,058	\$0
Program Expenses and Supplies	\$4,000	\$0	\$4,000
Student Transportation (Bus)	\$2,667	\$2,667	\$0
Administrative	\$4,800	\$0	\$4,800
Direct Administrative Personnel	\$8,800	\$0	\$8,800
Occupancy & Maintenance	\$1,800	\$0	\$1,800
Operating	\$1,200	\$0	\$1,200
Other Misc. Expenses	\$1,400	\$0	\$1,400
	\$51,925	\$14,725	\$37,200



KEEP TRUCKEE MEADOWS
B E A U T I F U L

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:	2020 Spring Great Community Cleanup, 2020 Fall Truckee River Cleanup, Adopt-A-River & Adult Outreach and Education		
Amount requested: \$79,245	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 Truckee River Cleanup, monitor the impact of current cleanup efforts. Engage more year-round cleanup support through KTMB's Adopt-A-River program. Provide community education and outreach to decrease environmental threats to the river. This will provide funding to support these efforts for Calendar Year 2020.		
Key People:	Director:	Christi Cakiroglu	
	Board Chair:	Christina Stoeve-Young	
	Project Contact:	Name:	Lindsey Panton
		Position:	Program Director
		Phone:	775-851-5185
		Fax:	N/A
		Email:	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 <input checked="" type="checkbox"/> 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:

- ☒ 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.

NARRATIVE

- 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 dedicated to beautification, advocating for a clean community and education in the Truckee Meadows for 30 years. KTMB creates a cleaner, more beautiful area to increase the quality of life for all who live in and visit the Truckee Meadows. In 2020, KTMB will continue to build strategic partnerships to protect and conserve the Truckee River, while expanding thriving litter and invasive weed removal projects along the Truckee River and throughout the watershed, as well as education of residents on the steps they can take to prevent threats to the river and watershed.

Great Community Cleanup – Spring 2020



KEEP TRUCKEE MEADOWS BEAUTIFUL

- Engage minimum 700 volunteers in litter clean up and weed removal efforts in overall event;
- Of those 700 volunteers, KTMB will recruit and coordinate a minimum of 125 volunteers to pull invasive weeds at weed sites;
- Remove 15- 20 tons of trash, invasive weeds and green waste 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 2020 Great Community Cleanup;
- Support accurate mapping of invasive weed zones as tracked by Washoe Storey Cooperative Weed Management Authority (WSCWMA);
- Enhance marketing and outreach to continue to attract Adopt-A-River groups to improve participation in the 2020 Great Community Cleanup;

Truckee River Cleanup – Fall 2020

- Engage minimum of 600 volunteers in river cleanup, storm drain stenciling and weed removal;
- Remove 15-25 tons of trash, green waste and invasive weeds from the river corridor at cleanup locations from Verdi to Lockwood;
- Involve a minimum of 100 youth through partnerships with youth programs;
- 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 the City of Reno (as all drains flow to the river!);
- 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, and remove graffiti as needed.

Adopt-A-River 2020

- In response to the changing conditions of the Truckee River, KTMB works with municipal partners to update KTMB's annual Litter Index Survey to reflect our growing community. In the update, there will be a section completely dedicated to the Truckee River corridor. This also helps KTMB staff to gather data to assess areas that need adoption;
- Adopt-A-River program will also include a Litter Survey before each cleanup. Areas are rated based on a scale of 1-4: 1, meaning "virtually no litter"; and 4, indicating "major illegal dump site". These surveys will show the impact of the Adopt-A-River program;
- Recruit and retain adopters and volunteers to be stewards of river corridor and watershed areas;
- Conduct a minimum of 15 river specific cleanups through Adopt-A-Spot Program to engage 150 volunteers in river-related cleanup efforts.

Adult Education and Community Outreach 2020

- Communicate the negative impacts non-point source pollutants have on our local watershed so that we may contribute to enhancing our water quality and conserving our water resources.
- KTMB will convey the importance of preserving our natural ecosystem and native plant species and keeping invasive and noxious weeds from spreading as they can contribute to intense fires in the summer and are a health risk to humans and our wildlife.
- KTMB AmeriCorps will coordinate quarterly "River Walks" as an educational and outreach effort along the river corridor in conjunction with the One Truckee River (OTR) River Restroom Project.
- KTMB will conduct a minimum of 25 Community and Adult education presentations on watershed and invasive weed and, or litter topics to reach 1,000 community members through our adult Watershed and Invasive/Noxious Weeds informative talks to businesses, organizations, community groups, etc.



KEEP TRUCKEE MEADOWS
BEAUTIFUL

- 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;
- 2. **Project location:** The Great Community Cleanup (GCC), Truckee River Cleanup (TRC), and Adopt-A-River cleanups are conducted along the river corridor and throughout the local watershed. Local municipalities and watershed experts will determine storm drain stenciling needs for the 2020 TRC.
- 3. **Project description:** KTMB supports a clean and invasive weed-free community by educating and informing residents and visitors about the importance of maintaining a healthy river and watershed by removing litter and invasive 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. KTMB's 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, as well as having consistent outreach and messaging to support behavior change, KTMB is helping to better protect the water resources of the Truckee River.

KTMB's Great Community 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 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.

KTMB's Truckee River Cleanup activities will include:

- In cooperation with the OTR River Restroom Project, KTMB will work in collaboration with OTR to include Brodhead Park as a cleanup site during the 2020 TRC. OTR will help to lead cleanup efforts and coordinate key stakeholders for this site leading up to the event.
- Volunteers removing invasive weeds at several hot spots along the Truckee River and its tributaries, as identified by weed experts at local municipalities of the WSCWMA.
- Producing key messaging about responsible river recreation and keeping the river clean.

Adult and Community Education efforts will include:

- Presenting to City and County NABS/CABS, churches, recreation/outdoor groups, city council and county commission meetings, service organizations, area businesses, and on-site educational opportunities along the river and in Idlewild Park's Sensory Garden.
- Quarterly "River Walks" coordinated by KTMB's AmeriCorps to bring people to the river corridor for an educational opportunity. This activity is in cooperation with the OTR River Restroom Project.
- Continued outreach to the community through social and traditional multi-media outlets with messaging related to the environmental health of the river.

Adopt-A-River activities will include:

- Recruiting new volunteers and managing existing volunteers to conduct cleanups along the Truckee River. This activity is in cooperation with the OTR River Restroom Project.
- Working with WSCWMA and local municipalities to monitor river invasive weed and litter hotspots.
- Continue to conduct annual Litter Index Survey to evaluate current river corridor cleanliness.

- 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 taxpayer dollars.



KEEP TRUCKEE MEADOWS BEAUTIFUL

KTMB's 2020 Great Community Cleanup, Truckee River Cleanup and Adopt-A-River program will support following objectives of the One Truckee River Management Plan: 2.1.b; 2.3.j; 2.5.b; 3.3.h; 3.4.b; 3.4.c; 3.4.e; 3.4.f.

KTMB's Adult and Community Education efforts will support the following objectives of the One Truckee River Management Plan: 1.3.b; 2.1.j; 3.2.d; 3.2.f; 3.3.b; 3.3.e; 3.3.h.

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 Truckee River Cleanup include health department permits for the post-event volunteer barbecues.
6. **Future land use. List any known or foreseeable zoning, land use, or development plans that may affect your proposed project:** There are no known or foreseeable zoning, land use or development plans that may affect this project.
7. **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 Cleanup and Truckee River Cleanup 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 local residents, and to leverage in-kind support and funding from other sources. In addition, KTMB works closely with One Truckee River to provide the leadership necessary to complete Phase 1 of the One Truckee River Management Plan to build 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.
8. **Principals involved in leading or coordinating the project or activity:** KTMB is the principal coordinating agency for project implementation, management, volunteer recruitment and coordination.
9. **Number of staff positions involved in project:** Five Part-Time Staff
10. **Number of volunteers involved in project and an estimated number of volunteer hours.**

Great Community Cleanup: <u>700-800 volunteers</u>	Estimated hours: <u>2,800-3,200 hours</u>
Truckee River Cleanup: <u>600-700 volunteers</u>	Estimated hours: <u>1,800-2,100 hours</u>
Adopt-A-River: <u>150-250 volunteers</u>	Estimated hours: <u>375-625 hours</u>

11. Time Line

Below is a general timeline KTMB staff follows for each program activity detailed in this proposal. This funding will cover the calendar year 2020.

GCC 2020 Timeline:

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

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

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

TRC 2020 Timeline:

Spring/Summer: Compile survey data from the spring Great Community Cleanup weed pull and re-survey sites for cleanliness. Begin planning for fall Truckee River Cleanup.

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

Adopt-A-River Timeline:

Winter: Compile and review information on existing sites and existing volunteer groups.

Spring/Summer: Outreach and volunteer recruitment and management to conduct cleanups along the river corridor.

Community Outreach Timeline:

Spring/Summer: Create an outreach plan to engage more residents on river-related topics through presentations, river tours, and media outreach. Schedule and conduct presentations.

Fall/Winter: Schedule and conduct presentations and river tours. Continue outreach.



KEEP TRUCKEE MEADOWS
B E A U T I F U L

12. Success

The success of GCC will be measured in the following ways:

- Minimum 700 community volunteers engaged in trash and invasive weeds removal along the Truckee River and its tributaries during KTMB's Great Community Cleanup in 2020;
- Minimum 100 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects;
- Minimum of 15 tons of green waste, invasive weeds and trash will be removed from Truckee River and its watershed in 2020 GCC;

The success of TRC will be measured in the following ways:

- Minimum of 600 community volunteers engaged in trash and invasive weeds removal along the Truckee River and its tributaries during KTMB's Truckee River Cleanup in 2020;
- Minimum of 100 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects;
- A minimum of 15 tons of green waste, invasive weeds and trash will be removed from Truckee River and its watershed in the 2020 TRC;
- 100 storm drains will be stenciled;
- Improve Adopt-A-River participation in Truckee River Cleanup event.

The success of Adopt-A-River will be measured by:

- Evidence Based Litter Survey conducted along length of the river corridor to evaluate cleanup efforts;
- Perform 15 cleanups along the Truckee River corridor throughout the year;
- Minimum of 150 community volunteers engaged in trash, invasive weeds and green waste removal along the Truckee River corridor throughout the year;
- A minimum of 5 tons of invasive weeds and trash will be removed from the Truckee River corridor.

The success of Adult Education and Community Outreach efforts will be measured by:

- Minimum of 25 Community and Adult education presentations on watershed, invasive weed and, or litter topics;
- Reach 1,000 community members through our adult Watershed, Litter and, or Invasive/Noxious Weeds informative talks to businesses, organizations, community groups, etc.;
- Conduct Teacher Trainings for educators to implement KTMB's Waste, Weed and Watershed Warriors curriculum in the classroom to a minimum of 50 teachers annually.

13. Collaboration

KTMB's major cleanup and education efforts collaborate with local agencies and organizations including: One Truckee River, Washoe County, Washoe County Health District, Washoe County Sheriff's Office, City of Reno, City of Sparks, Truckee Meadows Water Authority, Nevada Division of Environmental Protection, Nevada Division of Forestry, Nevada Department of Agriculture, Nevada Department of Wildlife, US Forest Service, Reno-Sparks Indian Colony, Sun Valley GID, Bureau of Land Management, Washoe Storey Cooperative Weed Management Authority, Truckee River Fly Fishers, Sagebrush Chapter of Trout Unlimited, The Nature Conservancy, Friends of Nevada Wilderness, Northern Nevada HOPES, Nevada Land Trust, REI, Patagonia, Otis Bay, Down to Earth Composting and RT Donovan.

14. Grant match

Match amount to be provided:		\$307,319
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.	
	Cash:	\$152,805 (Combination of secured funds and pending requests)
	In-kind:	\$154,514
For the cash portion of your match, is the funding already being held by the applicant for this project? No <u>X</u>		
Description of matching funds/in-kind donations:	<ul style="list-style-type: none"> • Project Partners and in-kind support will provide a minimum of \$48,514 in staff time • KTMB is projecting \$106,000 in volunteer time at a rate of \$20/hour per individual and approximately 1,500 volunteers that will be used as a match. • Approximately \$152,805 in cash support is either secured or being requested from other funding sources. 	

Truckee River Fund Project Budget
2020 Spring Great Community Cleanup, Fall Truckee River Cleanup, Adopt-A-River Program & Adult and Community Outreach and Education

Category	Justification	TRF Request	Cash & In-kind/Match	Total Cost
Great Community Cleanup 2020				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$12,000.00	\$13,000.00	\$25,000.00
Keep Truckee Meadows Beautiful	Mileage	\$250.00	\$0.00	\$250.00
Washoe County Parks	Staff Time, Materials & Equipment	\$0.00	\$2,500.00	\$2,500.00
City of Reno Parks	Staff Time & Equipment	\$0.00	\$1,500.00	\$1,500.00
Friends of NV Wilderness	Staff Time, Materials & Equipment	\$0.00	\$1,500.00	\$1,500.00
City of Sparks Parks	Staff Time, Materials & Equipment	\$0.00	\$1,500.00	\$1,500.00
Nevada Department of Wildlife	Staff Time, Materials & Equipment	\$0.00	\$1,000.00	\$1,000.00
Reno Sparks Indian Colony	Staff Time, Materials & Equipment	\$0.00	\$1,000.00	\$1,000.00
The Nature Conservancy	Staff Time	\$0.00	\$500.00	\$500.00
Washoe County Sheriffs office	Labor and supervision	\$0.00	\$4,000.00	\$4,000.00
Sun Valley GID	Staff Time, Materials & Equipment	\$0.00	\$6,500.00	\$6,500.00
Volunteer Hours	800 volunteers x 4 hours x \$20/hour	\$0.00	\$64,000.00	\$64,000.00
Sub-Total		\$12,250.00	\$97,000.00	\$109,250.00
EQUIPMENT & SUPPLIES				
Sani-Huts	United Site Services (\$55/unit, 2 sinks, \$75/unit, damage waivers and delivery fees \$300)	\$400.00	\$300.00	\$700.00
Dumpsters	Dumpsters vary each cleanup, along with discounts. Project the need for 25 dumpsters priced at \$700.	\$4,500.00	\$13,000.00	\$17,500.00
Garbage Bags	for trash removal	\$300.00	\$300.00	\$600.00
KTMB Truck for Site Surveying/Event Imple	Fuel & Maintenance/Mileage	\$200.00	\$200.00	\$400.00
Trash Pickers	ULINE - 32" (\$14/picker)	\$200.00	\$1,100.00	\$1,300.00
Project Supplies	Tools, tree wrap, paint, masks, gloves, etc.	\$750.00	\$1,750.00	\$2,500.00
Project Posters	NV Energy donation 100 posters	\$0.00	\$227.00	\$227.00
First Aid Kits	Some donated, KTMB purchases the rest	\$0.00	\$200.00	\$200.00
Tires Plus	Tire recycling	\$0.00	\$1,000.00	\$1,000.00
Green Waste Composting	\$6/yard - donated by RT Donovan	\$0.00	\$1,080.00	\$1,080.00
Sub-Total		\$6,350.00	\$19,157.00	\$25,507.00
VOLUNTEER COORDINATION				
Event Signage	For way-finding at event	\$100.00	\$100.00	\$200.00
Volunteer appreciation item	Approximately 1000	\$2,000.00	\$2,000.00	\$4,000.00
Health Permit for Picnic	Washoe County Health District	\$200.00	\$0.00	\$200.00
Volunteer Project Leader appreciation	appx 120 items	\$2,000.00	\$400.00	\$2,400.00
Volunteer wristbands	Debossed (1/2" - Youth, Green)	\$100.00	\$0.00	\$100.00
Public Education	Radio/TV/PSAs/Post Cards/Bumper Stickers	\$4,500.00	\$4,600.00	\$9,100.00
Zero Waste Supplies	Serving ware, utensils, signage	\$300.00	\$200.00	\$500.00
Volunteer Provisions	Nature's Bakery, KIND, Tahoe Trail Bars, soda	\$0.00	\$500.00	\$500.00
Volunteer Food & BBQ	Donated in part by Save Mart	\$750.00	\$1,500.00	\$2,250.00
Sub-Total		\$9,950.00	\$9,300.00	\$19,250.00
TOTAL GCC 2020 Request		\$28,550.00	\$125,457.00	\$154,007.00
Truckee River Cleanup 2020				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$12,000.00	\$13,000.00	\$25,000.00
Keep Truckee Meadows Beautiful	Mileage	\$250.00	\$0.00	\$250.00
Washoe County Parks	Staff Time, Materials & Equipment	\$0.00	\$3,000.00	\$3,000.00
City of Reno Parks	Staff Time & Equipment	\$0.00	\$3,500.00	\$3,500.00
Reno Fire Dept Water Entry Team	Swiftwater rescue technicians and equipment	\$0.00	\$500.00	\$500.00
Truckee Meadows Watershed Committee	Storm drain stenciling supplies, staff time, education and give-aways	\$0.00	\$4,000.00	\$4,000.00
City of Sparks Parks	Staff Time, Materials & Equipment	\$0.00	\$6,500.00	\$6,500.00
Nevada Department of Wildlife	Staff Time, Materials & Equipment	\$0.00	\$500.00	\$500.00
Reno Sparks Indian Colony	Staff Time, Materials & Equipment	\$0.00	\$1,000.00	\$1,000.00
The Nature Conservancy	Staff Time	\$0.00	\$500.00	\$500.00
Otis Bay	Staff Time, Materials & Equipment	\$0.00	\$1,400.00	\$1,400.00
Volunteer Hours	700 volunteers x 3 hours x \$20/hour	\$0.00	\$42,000.00	\$42,000.00
Sub-Total		\$12,250.00	\$75,900.00	\$88,150.00
EQUIPMENT & SUPPLIES				

Sani-Huts	United Site Services (\$55/unit, 2 sinks, \$75/unit, damage waivers and delivery fees \$300)	\$600.00	\$300.00	\$900.00
Dumpsters	Dumpsters vary each cleanup, along with discounts. Project the need for 15 dumpsters priced at \$700.	\$3,000.00	\$7,500.00	\$10,500.00
Garbage Bags	large bags	\$300.00	\$200.00	\$500.00
KTMB Truck for Site Surveying/Event Imple	Fuel & Maintenance/Mileage	\$200.00	\$200.00	\$400.00
Trash Pickers	various styles	\$300.00	\$200.00	\$500.00
Project Supplies	maintenance	\$1,000.00	\$2,000.00	\$3,000.00
Project Posters	NV Energy donation 100 posters	\$0.00	\$227.00	\$227.00
Green Waste Composting	\$6/yard- donated by RT Donovan	\$0.00	\$1,080.00	\$1,080.00
Sub-Total		\$5,400.00	\$11,707.00	\$17,107.00
VOLUNTEER COORDINATION				
Volunteer Food & BBQ	Supported in part by Savemart	\$750.00	\$1,500.00	\$2,250.00
Event Signage	Signs and banners	\$300.00	\$400.00	\$700.00
Volunteer Appreciation Item	Appx. 1000 items	\$2,000.00	\$2,000.00	\$4,000.00
Health Permit for Picnic	Washoe County Health District	\$200.00	\$0.00	\$200.00
Volunteer Project Leader Thank you	appx 120 items	\$2,000.00	\$2,000.00	\$4,000.00
Volunteer wristbands	Debossed (1/2" - Youth, Green)	\$100.00	\$0.00	\$100.00
Stickers and/or clings	printing and ordering	\$500.00	\$500.00	\$1,000.00
Public Education	multimedia	\$4,500.00	\$1,500.00	\$6,000.00
Zero Waste Supplies	Serving ware, utensils, signage	\$300.00	\$200.00	\$500.00
Volunteer Provisions	bars, snacks, soda	\$0.00	\$500.00	\$500.00
Sub-Total		\$10,650.00	\$8,600.00	\$19,250.00
Total TRC 2020 Request		\$28,300.00	\$96,207.00	\$124,507.00
<i>Adult Education and Community Outreach</i>				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$5,000.00	\$47,000.00	\$52,000.00
AmeriCorps - Adult Outreach Educator	State and National	\$5,000.00	\$5,000.00	\$10,000.00
Sub-Total		\$10,000.00	\$52,000.00	\$62,000.00
STEWARDSHIP & ENVIRONMENTAL AWARENESS				
Teacher training	For 50 teachers annually	\$2,545.00	\$4,405.00	\$6,950.00
Sub-Total		\$2,545.00	\$4,405.00	\$6,950.00
Total Education and Outreach Request		\$12,545.00	\$56,405.00	\$68,950.00
<i>Adopt-A-River</i>				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$9,750.00	\$29,250.00	\$39,000.00
Mileage	to and from events	\$100.00	\$0.00	\$100.00
Total Adopt-A-River Request		\$9,850.00	\$29,250.00	\$39,100.00
TOTAL REQUEST		\$79,245.00	\$307,319.00	\$386,564.00

KTMB Funding received from the Truckee River Fund

Date Awarded	February 2019
Project title:	TRF #217 Truckee River Cleanup
Amount of Award:	\$53,000
Date Awarded	August 2018
Project title:	TRF #204 Great Cleanup
Amount of Award:	\$31, 640
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

KTMB Funding received from the Truckee River Fund

Date awarded:	December 2005
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$9,402.50

**Keep Truckee Meadows Beautiful: 2019/20 contributions to the
One Truckee River Management Plan**

KTMB's 2019 Truckee River Cleanup and Adopt-A-River program will support following objectives of the One Truckee River Management Plan:

- 2.1.b: Educate and coordinate with special events personnel to increase special events along less used sections of the river.
- 2.3.j: Work with local Community Wellness providers to implement a "Healthy River, Healthy People" campaign that will encourage the wellbeing of the Truckee River as well as the residents that live, work and play along it.
- 2.5.b: Create public/ private partnerships to promote Truckee River beautification.
- 3.3.h: Continue to engage community Decision makers and partners about issues related to the river.
- 3.4.b: Educate the community on Leave No Trace principles while in and along the river corridor.
- 3.4.c: Increase official presence along the river for stewardship and education of the community.
- 3.4.e: Coordinate and promote stewardship activities for groups such as high-school environmental clubs or community service organizations.
- 3.4.f: Coordinate stewardship activities throughout the river corridor to maximize impact.

KTMB's Adult and Community Education efforts will support the following objectives of the One Truckee River Management Plan:

- 1.3.b: Educate users of the Truckee River on issues impacting water quality.
- 2.1.j: Enhance prevention education and enforcement of anti-littering laws.
- 3.2.d: Create one-page handouts for adults and age-based handouts for children discussing core learning outcomes.
- 3.2.f: Identify and provide access opportunities to "outdoor classrooms" where students can learn along the river.
- 3.3.b: Coordinate a speakers bureau to hold educational river-based events.
- 3.3.e: Continue to engage the community through interactive social media.
- 3.3.h: Continue to engage community decision makers and partners about issues related to the river.

Grant application to the *Truckee River Fund*
from the
Truckee River Watershed Council
Truckee River Invasive Species Control Project

08-23-19 TRF Agenda Item 9
#225

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 Invasive Species Control Project	
Amount requested: \$19,250		Website: www.truckeeriverwc.org	
This funding will be used to (complete this sentence with a max of 2 sentences):		Integrated management of high priority invasive species along the Truckee River in support of multiple beneficial uses.	
Key People:	Director:	Lisa Wallace	
	Board Chair:	Michael Park	
	Project Contact:	Name:	Matt Freitas
		Position:	Program Manager
		Phone:	(530) 550-8760 x 6#
		Fax:	N/A
		Email:	mfreitas@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 2019	
	Project title:	McIver Dairy Meadow Restoration Project	
	Amount:	\$161,000	
	Date awarded:	October 2018	
	Project title:	Restoration Projects: Donner Creek and Dry Creek Meadow	
	Amount:	\$92,000	
	Date awarded:	March 2018	
	Project title:	Truckee Meadows Restoration Project- Phase 2	
	Amount:	\$30,000	
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.

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

The goal of the project is to control the spread and establishment of non-native invasive plants along the Truckee River. This is a project of the Truckee River Watershed Council (TRWC) Weed Warriors, a long-term program for invasive species control and education.

Non-native invasive plant species represent a critical threat to the health and function of the Truckee River watershed. These species cross ownership, jurisdictional, and watershed boundaries with significant consequences for beneficial uses including water and habitat quality, recreational, and fuels and fire loading. The regional nature of this threat requires a coordinated regional response.

The Truckee River Invasive Species Control Project is an integral part of that regional response. Working with our local, state, and federal agency members of the Nevada-Placer Weed Management Area (WMA), TRWC has identified a key area for invasive species treatment along the Truckee River (see attached Proposed Treatment Area Map). This area is contiguous with WMA members existing and continuing treatment areas, but closes a gap in the regional treatment strategy.

The project is a continuation of a multiyear effort in the same reach of the Truckee River. TRWC has provided five years of repeated survey and treatment in the proposed treatment area. Over that period, we have seen significant reductions in infestation density, spread, and invasive species diversity. This progress indicates the potential for eradication of these species from the treatment areas.

The measurable outcomes for the project are:

- Survey 525 acres of Truckee River corridor treatment areas, collect GPS/GIS based records for all invasive species infestations
- Treat 21 acres of high priority invasive species including musk thistle (CA Noxious List A), spotted knapweed (List A), Russian knapweed (List A), perennial pepperweed (List B), and bull thistle (List C) among others
- Complete two community Weed Pull and Weed Walk events

The project will maintain the existing beneficial uses in the project area, which includes the Truckee River Wildlife Area and the Truckee River Legacy Trail, and will also improve the value and usability of this area for wildlife habitat and river and fishing access.

We monitor the effectiveness of this project through GPS and GIS-based project tracking of survey and treatment acreages and plant counts. These records are compared against existing databases (geospatial and tabular) from past years efforts so that we can analyze treatment efficacy, emerging trends, and problem areas. TRWC's annual analyses are presented and discussed with agencies in the WMA.

2. Project location.

The project treatment areas include 2.5 miles and 525 acres along the Truckee River between Truckee and Boca Reservoir. It includes the Truckee River Wildlife Area, the Truckee River Legacy Trail, and the majority of riparian floodplain habitats between Truckee and Nevada. Based on 2017 and 2018 invasive survey data, we estimate actual infestation size at 21 acres, constituted primarily by musk thistle, a List A California noxious weed. This reach represents a leading edge of these species' spread along the Truckee River.

The project treatment areas include a mix of private and public properties owned by the California Department of Fish and Wildlife, Tahoe-Truckee Sanitation Agency, Teichert, Town of Truckee, Truckee Sanitary District, and the San Francisco Fly Casters Club. These private and public property owners are all contributing match funding.

3. Project description.

The project is an invasive species control project to control the spread and establishment of non-native invasive plants along the Truckee River. We are requesting funding to supplement landowner contributions for on-the-ground treatment.

The Problem

The Truckee River watershed is host to nearly 100 invasive plant species, over 40 of which are rated noxious by the State of California. These species represent a critical threat to habitat value, water quality, fuel loading, and recreational uses. Through field surveys and GIS-based analyses, TRWC and the WMA members have identified a number of existing and emerging populations or “hotspots” within the watershed. Working with those members, TRWC has coordinated treatment for all of the identified hotspots in the watershed, with one exception: the Truckee River corridor between Truckee and Boca Reservoir.

This reach has a significant density of invasive species infestations, more than 500 occurrences of primarily musk thistle and spotted knapweed (both List A noxious weeds). This is due the proximity of this reach to source populations for these two species, respectively downstream and upstream of the project area. The reach represents a leading edge of these species spread along the Truckee River. Moreover, the complex public-private landownership patterns prevent agencies like Nevada and Placer Counties, from having clear jurisdiction and access.

The Solution

- Cooperative Management

Working with local, state, and federal WMA members, TRWC has identified, prioritized, and treated all of the emerging and existing invasive hotspots within our watershed for the last five years. This has provided contiguous treatment throughout the watershed, including federal, state, and private properties adjacent the project treatment area. However, this reach of the Truckee River requires a collaborative approach that exceeds the jurisdiction of our WMA agencies. TRWC has built a consensus of private and public landowners within the reach that enables us to treat these leading edge infestations.

- Early Detection- Rapid Response

Musk thistle and spotted knapweed have established source populations along the Truckee River. Those populations are well documented, treated annually by TRWC and WMA members, and in significant decline. Based on our annual GIS and CalWeedMapper prioritizations, we have identified the project treatment area as high priority sites for treatment to contain the spread of those species to other parts of the watershed. At this time, both species are geographically limited in California and have the potential for eradication or containment.

- Scope and Integrated Weed Management

The project will provide targeted weed treatment along 2.5 miles and 525 acres of the Truckee River between the Truckee and Boca Reservoir as well as implement two community weed pull or education events.

We will complete a survey of the treatment areas, collecting GPS-based records for all invasive species infestations. Following these surveys, we will provide three rounds of repeated treatments using chemical and manual methods. Specific methodologies will be selected based on the target species, habitat, and phenology. For example, manual methods will be used near aquatic habitats or sensitive native species. Conversely, certain species, such as spotted knapweed, spread rhizomatously through their roots. As such, manual pulling tends to stimulate growth and chemical applications are necessary for effective control.

To improve community awareness and involvement on weed management, TRWC will host two community weed pull or education events in 2020. These events will focus on informing and empowering the public so that they can become advocates for weed management in their community. The events will also teach volunteers how to identify, report, and, where appropriate, treat weeds on their own.

This scope dovetails with TRWC and other WMA members' past and ongoing integrated weed management strategies that include 1) watershed-level survey and treatment of existing and emerging infestations, 2) data sharing and reporting, 3) vector control, 4) policy and agency advocacy, 5) public agency education and trainings, and 6) community involvement and education.

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

- **Watershed Improvements.** The project will remove invasive species along 2.5 miles and 525 acres of the Truckee River. These species displace native riparian species and promote runoff and excess erosion to the Truckee River. Their removal supports attainment of the 303 (d) listed TMDL pollutant.
- **Stewardship and Environmental Awareness:** The project includes a continuation of TRWC's Weed Warriors community involvement and education program. These events have been very successful in outreach to community members regarding invasive species management and reporting. It educates and empowers the public to assist TRWC with invasive treatment and survey work in the watershed.
- **Meet Multiple Objectives.** The projects meet the watershed, water quality, and community awareness objectives listed above. It also benefits habitat quality, recreational access and usability, and fire and fuels loading.
- **Leverage Stakeholder Assets and Participation.** The project has leveraged significant landowner participation and assets. All of the private and public landowners are contributing match funding to support on-the-ground treatment.

5. Permitting.

This project does not require any permits or environmental compliance. TRWC has existing agreements with the landowners to complete the work. A Qualified Applicator Licensee will complete all chemical applications based upon a Pest Control Advisor recommendation.

6. Future land use.

There are no foreseeable zoning, land use, or development plans that will affect the project or project site.

7. Future phases.

This project is a continuation of a multi-year treatment program by TRWC in the project area. Surveys have documented significant declines in the spread, density, and diversity of infestations to date. We anticipate that subsequent phases will include repeated survey and treatment as well as a continuation of TRWC's community involvement and education programs. Those phases will be funded by continued landowner contributions and TRWC is pursuing funding as well.

8. Principals involved.

Matt Freitas, Program Manager with TRWC, will oversee the implementation of the project.

9. Number of staff positions involved in project.

Matt Freitas and Lisa Wallace will work part-time on this project.

10. Number of volunteers.

Volunteers will participate in weed pull and weed education activities in 2020. Approximately 20 volunteers (80 person hours) will participate.

11. Timeline.

Task	Completion Date
Hire survey and treatment contractor	2/28/2020
Renew land owner right of entry agreements	3/20/2020
Launch meeting with treatment contractor	5/1/2020
Invasive species survey and treatment	8/14/2020
Host two community events	8/22/2020
Survey and treatment data analysis, reporting, and sharing	10/16/2020
Present project results to Nevada Placer WMA meeting	12/6/2020

12. Success.

TRWC will monitor the effectiveness of this project through GPS and GIS based project tracking of survey and treatment acreages and plant counts. These records are compared against existing databases (geospatial and tabular) from past year's efforts to analyze treatment efficacy, emerging trends, and problem areas. TRWC's annual analyses are presented and discussed with agencies in the WMA.

13. Collaboration.

TRWC coordinates management efforts across the watershed area through the WMA. WMA members include Placer and Nevada counties, California State Parks, Caltrans, US Forest Service, and California Department of Fish and Wildlife. In addition to the WMA members, TRWC will specifically coordinate on this project with California Department of Fish and Wildlife, Tahoe-Truckee Sanitation Agency, Teichert, Town of Truckee, Truckee Sanitary District, and the San Francisco Fly Casters Club.

14. Grant match.

Match amount to be provided:		\$16,000
Match details:	Match is:	
	Cash	\$16,000
	In-kind	\$0
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes	
Description:	Tahoe Truckee Sanitation Agency \$3,000; Teichert \$4,000; Town of Truckee \$4,000; Truckee Sanitary District \$2,000; San Francisco Fly Casters Club \$3,000. Funding is allocated to invasive species survey and treatment costs.	

Attachments

- A. Extended list of past TRWC projects funded by the Truckee River Fund.
- B. Proposed Invasive Species Treatment Area Maps

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
- IRS 501(c)(3) Tax Determination Letter
- Most recent IRS Form 990

BUDGET

Item	TRF Request	Match Funding	Match	Total
Project management	\$4,500.00			\$4,500.00
Invasive species survey and treatment	\$14,000.00	TTSA \$3,000; Teichert \$4,000; Town \$4,000; TSD \$2,000; SFFCC \$3,000	\$16,000.00	\$30,000.00
Materials and supplies	\$750.00			\$750.00
TOTAL	\$19,250.00		\$16,000.00	\$35,250.00

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

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


Date awarded:	October 2017
Project title:	Truckee River Tributaries Sediment Reduction Project
Amount of Award	\$165,000
Date awarded:	March 2017
Project title:	Big Chief, F4M Restoration Culvert Outflows
Amount of Award	\$50,000
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization Downstream of Railroad Culvert Final Design
Amount of Award	\$90,000
Date awarded:	March 2017
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

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

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
Weed Warriors
2020 Proposed Invasive Treatment Areas

Legend

 2020 Treatment Areas

0 0.1 0.2 0.4 0.6 0.8 Miles



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**Cover Sheet****Date:** August 1st, 2019

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: First Year Operational	
Amount requested: \$101,526		Website: tmparksfoundation.org	
This funding will be used to (complete this sentence with a max of 2 sentences):		Execute a community supported master plan to re-purpose the former Rosewood Lakes Golf Course into a nature study area. The nature study area will serve as an outdoor learning laboratory and community green space.	
Key People:	Director:	Heidi Anderson	
	Board Chair:	Elisa Davis	
	Project Contact:	Name:	Heidi Anderson
		Position:	Executive Director
		Phone:	(775) 453-0278
		Fax:	N/A
		Email:	heidi@tmparksfoundation.org
Organization Mission:			
Has your organization received other grants from the Truckee River Fund? Yes No (use additional page if necessary)	If yes,		
	Date awarded:	March 26th, 2019	
	Project title:	Truckee Meadows Nature Study Area: First Year Operational Phase	
	Amount of Award:	\$61,400	
	Date awarded:	October 4th, 2018	
	Project title:	Truckee Meadows Nature Study Area Project: Planning Phase	
	Amount of Award:	\$38,400	
	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.



Truckee Meadows Nature Study Area Project: First Year Operational 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 project is to repurpose the former Rosewood Lakes Golf Course into a high-quality wetland habitat and nature study area. The Nature Study Area will serve as an outdoor learning laboratory where community members, families, and visitors come to understand the value of wetlands and the Truckee River watershed. The high level of accessibility makes this location an ideal spot for water and watershed education. Truckee Meadows Parks Foundation has submitted an AmeriCorps operational grant with anticipated funding of \$179,989 for this purpose. During the first year of the operational phase, the wetland restoration program director will lead a team of 14 AmeriCorps wetland restoration technicians (six beginning in September, 2019 and eight joining in April, 2020) whose primary service responsibilities will be to remove undesirable invasive species while concurrently revegetating with competitive, native plant species. To establish this area as an educational and recreational site, AmeriCorps technicians will also build and maintain bridges and trails, construct bird blinds for wildlife viewing, develop and place interpretive signage, and lead community members in educational and restoration volunteer events. A restored wetland system will offer engaging educational programs to the community.

Restoration outcomes will be measured using qualitative and quantitative analyses including photo point sites and drone imagery, as well as transects plotted using GIS software. These evaluation techniques will allow Truckee Meadows Parks Foundation staff and AmeriCorps technicians to accurately assess restoration efforts. Assessments will include percent cover of invasive species removed and amount (number of individuals or pounds of seed) of native plants established. Outcomes will also include reaching 500 community members through educational programs and events. For each grant year, Truckee Meadows Parks Foundation will seek match funding from multiple sources to continue long-term restoration. Truckee Meadows Parks Foundation will submit a final report and self-evaluation to the Truckee River Fund and the Washoe Storey Cooperative Weed Management Area (WSCWMA).

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 location is unique in that it borders both Reno and Sparks, making it highly accessible. 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 Rosewood Lakes Golf Course is one of the last vestiges of wetland habitat in the Truckee Meadows. The proposed Truckee Meadows Nature Study Area has been overtaken by multiple non-native plant species listed on the Nevada Noxious Weed List and the WSCWMA high-priority list. Noxious weeds present include, but are not limited to, tall whitetop



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(*Lepidium latifolium*), poison hemlock (*Conium maculatum*), purple loosestrife (*Lythrum salicaria*), and saltcedar (*Tamarix spp.*). These invasive plant species are known to outcompete and exclude most native plants. Invasives have been identified by Sherman Swanson, Rangeland and Riparian Specialist at the University of Nevada, Reno and an expert in plant identification. Elena Larsen, the Wetland Restoration Program Director, is an active member of the WSCWMA and has experience in plant identification. She will continue her formal weed identification and management training in 2019. Haley McGuire, Truckee Meadows Parks Foundation Special Program Manager, has an extensive background in plant identification and has attended both the Riparian Plant Identification training by Jerry Tiehm and the Proper Functioning Condition Assessment for Integrated Riparian Management classes in 2018.

Truckee Meadows Parks Foundation will recruit 14 AmeriCorps wetland restoration technicians to begin on the ground restoration efforts at the Nature Study Area. Members' main focus during this first year operational phase will be to restore the wetland area by removing invasive species while concurrently planting and caring for desirable, competitive species — a proven methodology for native species recovery (Flory and Clay 2009). AmeriCorps technicians will receive education and training regarding weed prevention best management practices. Additionally, these members will lead volunteer and restoration events to engage and educate the community about noxious weeds and their effect on watersheds.

Over the course of the operational year, environmental data will be collected, analyzed and used to evaluate the effectiveness of the different restoration practices. Techniques can then be adjusted to ensure best practices are being utilized for weed removal. 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 contiguous with this parcel, and therefore, restoration of this land reduces the potential for weed spread to the Truckee River and adjacent properties.

In the summer of 2020, Truckee Meadows Nature Study Area is scheduled to open to the public and host educational programs and stewardship events to engage and educate the community regarding invasive plants and the watersheds they affect. A restored wetland will allow these programs to better show the community what effect noxious weed removal can have on the environment. Prior weed management events on the property have shown community interest in noxious weeds, how to identify them, and ways to remove them. Local agencies and organizations will be able to access the site for their educational programs as well. The restoration of this invaluable habitat will provide immense ecological benefits to the wetland and its surrounding waters and preserve a rare ecosystem that once spanned the majority of the Truckee Meadows. Furthermore, the Nature Study Area will provide opportunities for recreation, public education, improved health and wellness, and foster a deeper appreciation for the intrinsic value of natural spaces.

4. Grant priorities.

The Truckee Meadows Nature Study Area project advances priorities VI (Stewardship and Environmental Awareness) and VIII (Leverage Stakeholder Assets and Participation). The Truckee



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Meadows Nature Study Area project advances priority VI in that Truckee Meadows Parks Foundation will use the property as an outdoor classroom where community members can participate in volunteer and restoration events and educational programs related to weed awareness, water, water quality, and watershed protection. Truckee Meadows Parks Foundation has leveraged community members from a breadth of disciplines willing to contribute time and expertise for the Truckee Meadows Nature Study Area advisory board, therefore advancing priority VIII.

5. Permitting.

Truckee Meadows Parks Foundation is currently using the former Rosewood Lakes Clubhouse as office space on a renewed one-year operational permit. Once a master plan is approved by the City of Reno, Truckee Meadows Parks Foundation will negotiate a long-term lease for the property.

6. Future land use.

There are currently no foreseeable zoning, land use, or development plans that may affect the Nature Study Area project in this first year of operations.

7. Future phases.

Truckee Meadows Parks Foundation will reapply for AmeriCorps funding to begin in September 2020 and other various grants to support later stages of the Nature Study Area project. The generous support of the Truckee River Fund will allow Truckee Meadows Parks Foundation to gather data from the restoration project, greatly increasing our competitiveness when applying for larger scale federal grants that will fund Truckee Meadows Nature Study Area into the future.

8. Principals involved.

Truckee Meadows Parks Foundation Executive Director, Heidi Anderson, Wetland Restoration Program Director, Elena Larsen, M.S., and Operations Director, Haley Kirby 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): Operations Director (50%), Development Officer (25%), Executive Director (25%)

10. Volunteers involved.

During the operational phase, AmeriCorps wetland restoration technician will serve alongside community volunteers who will be recruited and managed by Truckee Meadows Parks Foundation's Wetland Restoration Program Director and Community Engagement Coordinator AmeriCorps VISTA.

Truckee Meadows Parks Foundation hosted their first volunteer restoration day at the proposed Truckee Meadows Nature Study Area in June 2019, which included 120 volunteers and 480 volunteer hours. The success of that first event demonstrates community members interest in and support of the project. Truckee Meadows Parks Foundation anticipates to leverage at least 500 volunteers and 2,000 volunteer hours in 2020.



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11. Timeline.

January - December 2020: AmeriCorps technicians will rehabilitate the former golf cart trails on-site to key access points within the Truckee Meadows Nature Study Area.

March, June, September, December 2020: The Wetland Restoration Program Director and AmeriCorps technicians will conduct analyses of research plot data.

March - April 2020: Truckee Meadows Parks Foundation will begin native planting in areas where invasive plant species were treated as well as plan and implement a volunteer restoration day.

August 2020: The proposed Truckee Meadows Nature Study Area will open to the public.

October - November 2020: Truckee Meadows Parks Foundation will plan and implement fall native planting on-site and host a volunteer restoration day.

January 2021: Truckee Meadows Parks Foundation will submit final report to the Truckee River Fund.

12. Success.

Success will be measured by the amount of undesirable, noxious weeds removed and the establishment of competitive, native plant communities. We will also measure success by tracking the number of community members engaged in volunteer restoration events and other public education programs offered on-site. Truckee Meadows Parks Foundation will track these data and submit them in the Truckee River Fund final report in January 2021.

13. Collaboration.

Truckee Meadows Parks Foundation works diligently to develop partnerships with stakeholders, agencies, and other organizations as well as enhance community engagement. The Nature Study Area project will involve multiple stakeholders, including the City of Reno, Nevada Department of Wildlife, Nevada Land Trust (One Truckee River), National Parks Service, Reno-Sparks Indian Colony, University of Nevada Reno, The Nature Conservancy, Truckee River Flood Management Authority, Walker Basin Conservancy, and Lahontan Audubon Society to encourage collaborative efforts in all aspects of river water quality, watershed protection, source water protection, species enhancement, and to promote the mission of all involved agencies.

14. Grant match.

Truckee Meadows Parks Foundation has acquired an AmeriCorps operational grant of \$179,989 from the Corporation for National and Community Service to begin the project. The project total is \$281,515 with \$101,526 being the requested amount from the Truckee River Fund. Truckee Meadows Parks Foundation intends to use \$35,000 of the AmeriCorps operational funding as match for the requested Truckee River Fund grant, a 34% match.

15. Project Budget.

Please see page 6.



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TRUCKEE MEADOWS NATURE STUDY AREA PROJECT BUDGET

Budget Item Description	TRF \$	Match \$	Total \$
Wetland Restoration Program Director	\$5,483	\$0	\$5,483
Operations Director	\$13,500	\$0	\$13,500
Wetland Restoration Technicians	\$38,313	\$35,000	\$73,313
Native Plants/Seeds	\$15,000	\$0	\$15,000
Trail Development	\$20,000	\$0	\$20,000
Administrative Overhead (Utilities, Insurance, Repairs, Telephone, Internet, etc.)	\$9,230	\$0	\$9,230
TOTAL	\$101,526	\$35,000	\$136,526



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Grant Match

Match amount to be provided:		\$35,000
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	\$35,000
	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 ___
Description of matching funds/in-kind donations:	Truckee Meadows Parks Foundation has secured a \$179,989 grant from the Corporation for National and Community Service to allow 14 AmeriCorps Wetland Restoration Technicians to begin the efforts of restoring the former golf course. This project will match the requested \$101,526 from Truckee River Fund with \$35,000 from the AmeriCorps operational grant, a 34% match.	

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



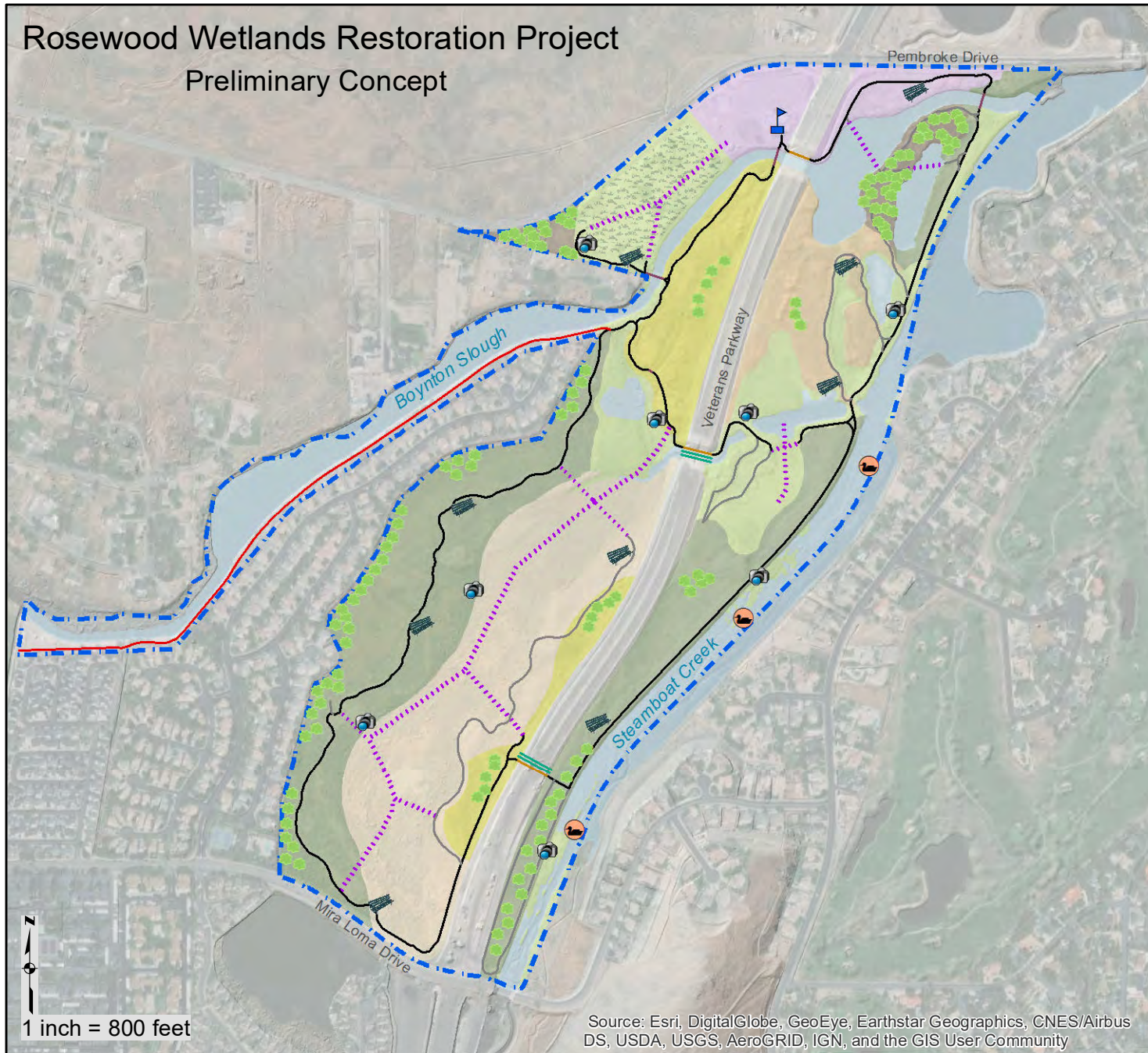
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Truckee Meadows Nature Study Area Project Works Cited

- 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.



- Restoration Area
- Community Center
- Black Willow-Cottonwood
- Waterfowl Nesting Cylinders
- Information Kiosk-Rest Area
- Photography-Observation
- Crumb Rubber/Asphalt Path
- DG Path
- Boardwalk
- Tunnel
- Wildlife Transit Tunnel
- Foot Bridge
- Controlled Access
- Floodplain - Wet Meadow
- Wet Meadow
- Native Upland
- Emergent
- Tree Stand
- Grass - Shrub
- Ponding
- Grass Reseeding Project
- Special Event Area

1 inch = 800 feet



This map is for illustrative purposes only. It does not represent a survey. No liability is assumed as to the sufficiency or accuracy of the data delineated hereon.



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Cover Sheet

Date: 8/1/19

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 and Community Outreach - Phase 2	
Amount requested: \$264,600.00		Website: www.nature.org/nevada	
This funding will be used to (complete this sentence with a max of 2 sentences):		The goals of TNC's headwaters forest work that would be supported by this proposed grant are: 1) to further facilitate the investment of some portion of a \$1.5 million federal grant received by The Nature Conservancy (TNC) for on-the-ground forest restoration in the Truckee River headwaters, 2) to complete development of effective messaging and outreach strategies, and 3) to utilize the messaging and strategies to implement an awareness campaign to educate the public and potential partners about severe wildfire-associated risks, and help TNC increase investment in the restoration of the headwaters forest through development of public-private partnerships.	
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,		
	Date awarded:	SEE ATTACHED SHEET	
	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.



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Enhancing and protecting our water resources



- ☐ 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.



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**TRUCKEE MEADOWS WATER
AUTHORITY**
Quality. Delivered.

Grant Match

Match amount to be provided:		\$264,600.49
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	\$264,600.49
	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 <input checked="" type="checkbox"/> No <input type="checkbox"/>
Description of matching funds/in-kind donations:	Matching funds will come from DTL project implementation 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

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

Date Awarded:	October 4, 2018
Project Title:	Truckee River Watershed Forest Restoration
Amount of Award:	\$57,826.09
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

Truckee River Watershed Forest Restoration Implementation and Community Outreach – Phase 2

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 further facilitate the investment of some portion of a \$1.5 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), 2) to complete development of effective messaging and outreach strategies, and 3) to utilize the messaging and strategies to implement an awareness campaign to educate the public and potential partners about severe wildfire-associated risks to watershed communities, including risks to the region's water resources and thereby, help TNC increase investment in the restoration of the headwaters forest through development of public-private partnerships.

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 remainder of the \$1.5 million. That effort will likely take about three 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, expenditures, etc.).

Regarding the second and third goals, TNC has been working with the Neon Agency to develop messaging and an outreach strategy and is ready to implement the strategy they have developed. This outreach effort, or awareness campaign, is intended to build community support for our efforts to increase the pace and scale of forest and watershed restoration and cultivate partnerships. With the help of additional consultants (outlined in the project description, below) we will build public-private partnerships and increase fundraising to support restoration efforts. Success will be measured by our ability to effectively implement the awareness campaign, formalize partnerships, and initiate fundraising efforts within the term of the proposed TRF grant, and TNC 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 National Forest (H-TNF) and Tahoe National Forest (TNF) lands within the portion of the Truckee River watershed that lies outside the Lake Tahoe Basin and upstream of Reno-Sparks. (See maps in following section.)

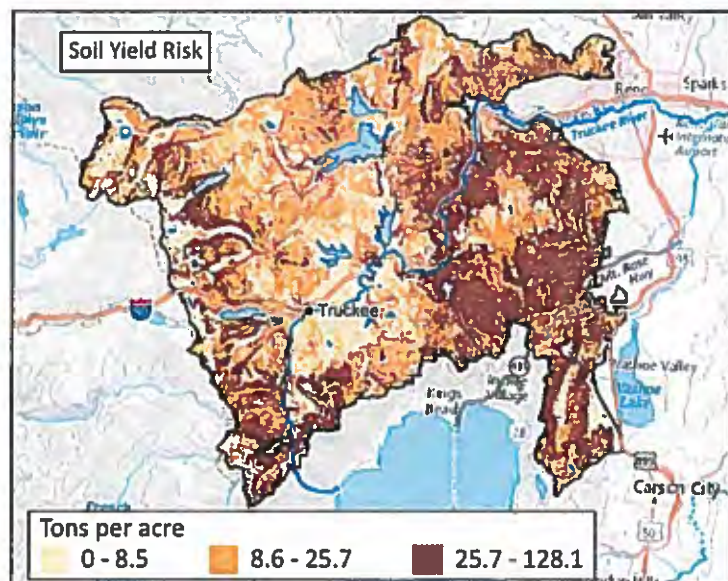
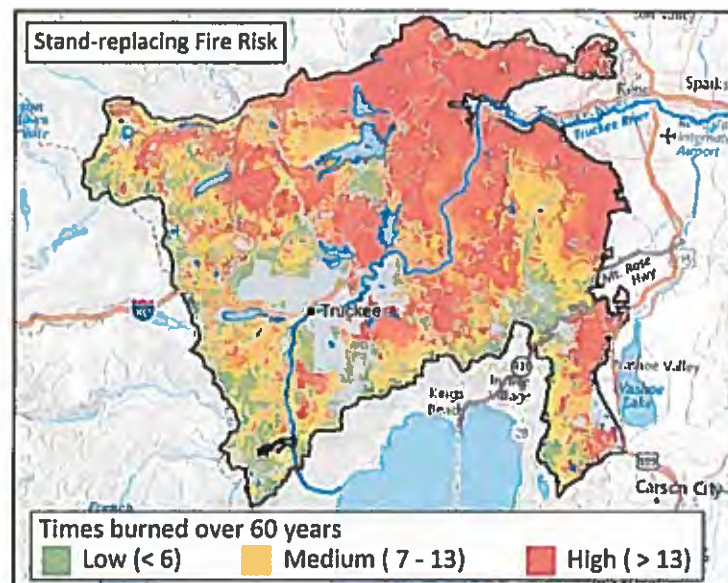
3. Project description

Goal 1: As noted in TNC's last TRF proposal, TNC received a grant of approximately \$1.5 million from the Bureau of Reclamation's Desert Terminal Lakes Program (DTL) for implementation of forest restoration projects in the Truckee River watershed. TNC subsequently received funding through TRF #208 to support TNC staff time to work with the USFS. The TRF funds were used to complete agreements, develop projects, and manage contracting and contractors to implement projects, as the costs of these activities were not covered under the DTL agreement. As a result, TNC entered a participating agreement with the H-TNF and worked with H-TNF to develop the first project TNC will implement on H-TNF lands. However, late in the process of working with the USFS to develop the first project, USFS regional staff revealed that the USFS requires 20% non-federal match as part of the budget for projects completed under participating agreements, such as the one TNC entered with the USFS. Fortunately, USFS allowed TNC to count the full amount of TRF #208 as match toward the project. However, this forced us to scale the overall project budget to the available match amount, resulting in a much smaller treatment area (200 acres) than originally proposed (approximately 500 acres) in the Dog Valley

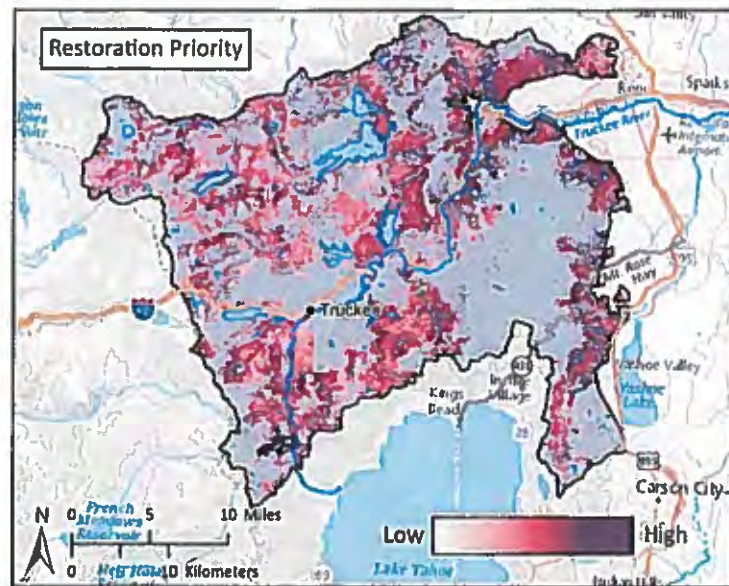
planning area. Therefore, as part of this proposal, we are asking for additional non-federal match dollars to enable further expenditure of the DTL funds to implement fuels treatment projects.

Since our last TRF proposal, TNC also completed its 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 identified areas where forest restoration efforts will be most effective in reducing those risks and impacts. This study utilized 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. 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 resources. It further identifies that a significant, long-term investment (tens of millions of dollars over several decades) will be needed to adequately address the problem. The first figure, produced from final study results, indicates where the risk of stand-replacing fire is highest, which includes areas near reservoirs, along the mainstem and tributaries of the Truckee River, and at the wildland-urban interface of Reno. The Dog Valley thinning project TNC is managing falls within the high stand-replacing fire risk area.

TNC combined the final LCF results shown in the first figure with hydrologic and sediment transport models to assess post-fire impacts to the waterways and reservoirs in the Truckee River system. The second figure indicates where post-fire sediment yield would be highest. Overlaying these two images and including parameters such as distance to waterways and waterbodies produced the third figure, which indicates areas to prioritize treatments in order to reduce the risk of stand-replacing wildfire while also reducing the risk of impacts to water resources.



In developing additional projects, utilizing the requested TRF grant and the remaining DTL funds, TNC will strive to identify and implement projects in the priority areas identified in the third figure, areas that would best support TMWA's interests. However, with the timeline for expenditure of the DTL funds, we will be limited to 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, as NEPA and CEQA processes can take years to complete.



Goals 2 and 3: The LCF-based study has demonstrated a compelling case for Truckee River headwaters forest protection and confirms that current rates of mechanical fuels reduction and prescribed fire treatments are inadequate to modify fire behavior across this large landscape. However, the path to increasing the pace and scale of these treatments requires overcoming multiple challenges:

- Most of the biomass that needs to be removed from the forest is comprised of small diameter trees, for which there is currently little market demand or economic value.
- Most of the forested land in our watershed is managed by the USFS, which lacks budget and staffing to increase the pace and scale of restoration on its own.
- The scale of planning is too small to address the size of the problem. While today's forest fires regularly burn areas of 100,000 acres or more, planning areas typically cover a few thousand acres, with 20,000 – 30,000 acres being considered a large planning area.
- TNC estimates bringing the system back to balance and reducing risks would cost tens of millions of dollars, over a couple of decades. The cost for treatments in the Reno wildland urban interface (WUI), alone, would be approximately \$25 million.

If we are to reach a pace and scale of restoration treatments that will modify fire behavior and mitigate the risk of unnaturally large wildfires, we must find solutions to these challenges. Finding solutions requires a multi-pronged approach, and public land managers, conservationists, scientists, leaders of business and industry will need to work together. To that end TNC is proposing to start a fund to develop the critically needed capacities, new technologies and business models, and collaborative restoration partnerships necessary for success.

With the science to back the need, TNC aims to raise \$30-\$40 million over the next decade for forest restoration and development of the enabling factors to increase the pace and scale of restoration (market development for small diameter wood utilization, larger planning efforts, partnerships to expand capacity, etc.), with the goal of doubling the pace and scale of restoration in the Truckee River watershed. To accomplish this goal, we must first expand our own capacity to take on more work, and we propose to initiate that expansion by contracting for the necessary skillsets. Part of the funding requested under this proposal will support contracts with the following:

The Neon Agency: TNC will enter a second contract with the Neon Agency to produce a short video featuring stakeholders; elected officials; and community, business, and industry leaders all sharing the reasons they support efforts to reduce fire risk in the watershed. Various cuts will be used for different elements of the awareness campaign, including presentations to political bodies, business groups, and community groups; t.v. spots; and social media (with the goal of creating a “viral video”) to build broad support for our efforts.

Leo Drozdoff: Mr. Drozdoff is the former Director of Nevada’s Department of Conservation and Natural Resources and now works as a consultant and lobbyist, representing TMWA, Switch, TNC, and other businesses and organizations across Nevada. Mr. Drozdoff has the political and business connections to help develop the public-private partnerships necessary for the success of this campaign.

Caryn Hunt DeCarlo: Mrs. DeCarlo is the former Desert Terminal Lakes Program Manager for the U.S. Bureau of Reclamation and a former employ of the USFS, serving with the Tahoe National Forest’s Truckee Ranger District. Mrs. DeCarlo has the connections and experience within the USFS to be an effective liason between TNC and the USFS and can help facilitate our efforts to identify the issues within and opportunities for working with the USFS. She has also proved herself to be effective at partnership development and stewardship as the Executive Director of the successful Trinity River Restoration Program, and we will likely utilize her skills in that capacity, as well.

Martin Swinehart: Mr. Swinehart is the owner of Tinderbox LLC, an outreach and marketing firm that has helped build TNC’s robust volunteer program through outreach to businesses and other groups. Mr. Swinehart has also been effective in using those same outreach skills, as well as his event coordination skills to connect TNC with businesses and organizations, creating opportunities for TNC to share our work with new audiences and assisting with fundraising efforts on other projects. He will be a key player in helping implement the awareness campaign.

Through supporting this expansion of our capacity to increase awareness of the issues facing the watershed, build public-private partnerships, and fundraise, the TRF will be part of building something bigger. It is an audacious goal to raise \$30-\$40 million for investment in the the headwaters of the Truckee River, but we have seen it is possible through the success of the \$30 million lower Truckee River Restoration Program. We have already made strides in advancing the headwaters forest initiative, through development of our partnerships with USFS and others. As a next step, we plan to work with the H-TNF to develop a compelling proposal for large-scale restoration efforts in Reno’s wildland-urban interface and pursue a multi-million dollar grant through the recently passed AB84. We have also recently gained interest from Senator Catherine Cortez Masto and Congressman Mark Amodei, who have expressed the desire to help at the federal level. With social, political, and financial support at the local, state, and federal levels, we firmly believe we can repeat the formula for success that made the lower Truckee River Restoration Program possible.

4. Grant priorities

This proposal meets multiple grant priorities for the Truckee River Fund. The projects that will be developed and implemented under this proposed grant would help reduce the risk of wildfires and associated risks to water resources, 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 directly provide non-federal match for implementing forest restoration projects with the USFS will be greatly leveraged in helping ensure utilization of the remainder of the \$1.5 million DTL grant on projects that will benefit river water quality, watershed protection, source water protection and habitat enhancement. Second, the requested TRF funding to help TNC implement an awareness campaign, build partnerships, and increase fundraising will create greater leverage to support more of the same types of projects, beyond the term of the TRF grant.

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 \$1.5 million, and TNC is only requesting TRF funding through December 31, 2020. TNC expects to have alternative funds available beyond the term of the TRF grant.

8. Principals involved

Mickey Hazelwood, Eastern Sierra Nevada Program Director, will be the TNC staff person working with the USFS and other partners, as well as managing contracts and contractors.

9. Number of staff positions involved in project

TNC is not requesting TRF funds to support staff positions through this grant.

10. Number of volunteers involved in project

No volunteers will be involved in this project.

11. Timeline of project

TNC will be working to expend the DTL funds through September 30, 2022 and is requesting match support for that effort through December 31, 2020. TNC plans to complete message development and outreach planning work with The Neon Agency by early October 2019, when the campaign will be formally launched. Outreach efforts and public-private partnership development 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 our ability to effectively implement the awareness campaign, formalize partnerships, and initiate fundraising efforts within the term of the proposed grant.

13. Collaboration

See Section 3, **Project Description**, regarding existing partnerships and efforts to build new ones.

Truckee River Watershed Forest Restoration Implementation and Community Outreach - Phase 2			
Project Budget			
Budget Item	TRF\$	Match DTL\$	Total
Federal implementation		\$ 212,804.00	\$ 212,804.00
Non-fed implementation match	\$ 130,000.00		\$ 130,000.00
Marketing consultant (Neon)	\$ 30,000.00		\$ 30,000.00
Pub.-Priv. Partnership Consultant (Drozdoft)	\$ 20,000.00		\$ 20,000.00
Forest Service Liason (Huntt-DeCarlo)	\$ 21,000.00		\$ 21,000.00
Outreach Campaign Consultant (Swinehart)	\$ 15,000.00		\$ 15,000.00
Total Direct Cost	\$ 216,000.00	\$ 212,804.00	\$ 428,804.00
ICR*	\$ 48,600.00	\$ 51,796.49	\$ 100,396.49
Total	\$ 264,600.00	\$ 264,600.49	\$ 529,200.49

*TNC is requesting 22.5% ICR for the TRF grant, while the FY19 negotiated federal ICR rate applied to the matching DTL funds is 24.34%.

August 1, 2019

Subject: Letter of Support for The Nature Conservancy's Proposal to the Truckee River Fund

Dear Truckee River Fund Advisory Board Members:

The safety of our customers and our environment is NV Energy's number one priority. Due to changes in our climate and our environment, wildfires pose a significant threat to our customers and our state. In an effort to reduce wildfire risk, NV Energy has been and will continue to implement grid hardening efforts to reduce the chance of our system igniting a fire. These include replacing wood poles with steel poles, upgrading to covered conductor, shortening vegetation management cycles and working with the University of Nevada, Reno and Desert Research Institute to install additional weather stations and fire cameras.

Our efforts alone will not reduce wildfire risk in Nevada and we must work together with partners like The Nature Conservancy (TNC). We are aware of TNC's watershed study and believe the risks the study indicates are a true threat to our customers, our system, and the environment. We are also well aware of the challenges to addressing those risks and based on our history of engagement with TNC, believe they are well positioned to bring together the parties necessary to find solutions and to get work done on the ground. We support their efforts to raise awareness, develop public-private partnerships, and implement projects to reduce the risk of catastrophic wildfires in the Truckee River watershed and recommend their proposal to the Truckee River Fund for a grant that will allow them to continue their work to help keep our state safe.

Sincerely,



Carolyn Barbash
Vice President of Community Relations and Business Development
NV Energy

Truckee River Fund Grant Proposal

Fiscal YR 2019

Date: 8/2/2019

Organization Name: Great Basin Institute

Type: 501c3 ID#: 88-043-1016

Government Entity: No

Address: 16750 Mt. Rose Hwy. Reno, NV 8951, Suite 101

Project Name: Galena Creek Ecological Restoration & Demonstration Project, Phase II

Amount Requested: \$34,778

Website: <https://www.thegreatbasininstitute.org/>

This funding will be used to: Establish demonstration plots for restoration of riparian ecosystems while engaging student in service-learning in the STEM disciplines. Students & educators will increase their understanding of water quality and watershed dynamics, thereby supporting career development and interests in the STEM fields. Project funds will be applied to University of Nevada, Reno teacher education credits, AmeriCorps education stipends, planting materials, and bus transportation.

Key People: Jerry Keir, Executive Director, Great Basin Institute; Dr. Glenn Miller, University of Nevada, Reno; Dr. Stephen Lafer, Professor, Emeritus, College of Education, University of Nevada, Reno

Project Contact: Jerry Keir, Executive Director, Great Basin Institute

Phone: 775.846.9310

Email: jkeir@GBInstitute.org

Organization Mission: GBI advances applied research to support science-based adaptive management of public lands. The Institute is dedicated to the promotion of science through field studies programs, conservation practices, and public outreach.

Has your organization received other grants from the Truckee River Fund? Yes

Date Awarded: 1) 11 / 2007 & 2) 2 / 2019 **Project Title:** 1) Truckee River Invasive Plant Eradication & Restoration Demonstration Project; 2) Galena Creek Restoration Project

Amount of Award: 1) \$134,396 2) \$30,400

Description of Project under Consideration: A. Projects that improve bank or channel stabilization and decrease erosion; C. Projects that remove pollution from the Truckee River. Education & Outreach.

Truckee River Fund Project Proposal

Galena Creek Restoration & Demonstration Project, Phase II

1. Project Goals and Measureable Outcomes. Great Basin Institute seeks to further efforts to unite K-12 educators, restoration ecologists, and agency personnel in creek restoration activities and associated service-learning studies. Located within Washoe County's Galena Creek Regional Park, the project supports public education through field classes, teacher workshops, and guided interpretive hikes. As such, the environmental and educational goals of this ongoing project, and those metrics that indicate success, are as follows:

Environmental Goals. This project restores degraded sections of Galena Creek to proper functioning condition and will improve water quality within the watershed. The re-introduction of native species will reduce erosion by stabilizing soil along incised stream bank. Increased riparian vegetation will provide shade cover, reducing temperatures and increasing dissolved oxygen, in turn maintaining macroinvertebrate species. Increased native shrubs, grasses, and forbs will provide habitat for critical aquatic and terrestrial organisms.

Successful restoration will be assessed and quantified using core indicators identified in Bureau of Land Management's Assessment, Inventory, and Monitoring Program's Aquatic Monitoring Framework. The approach characterizes trend and condition of pH, specific conductance; temperature; pool depth, length, and frequency; stream bed particle size; bank stability and cover. The assessment includes measurement of flood plain connectivity, large woody debris, macroinvertebrate biological integrity, riparian vegetative type, cover, and structure; and canopy cover.

Student Educational Goals. Through field-based programs, this project increases student learning outcomes in the STEM disciplines while fostering an interest in the natural sciences. Service-learning elements will promote inquiry-based educational processes and further an awareness of behaviors that affect positive environmental change. This project will also increase ecological literacy among K-12th grade students with respect to aquatic systems and the methods and technologies used for watershed assessment.

Students will learn how to establish monitoring plots, quantify baseline conditions, and characterize restoration success by utilizing current technologies that capture biological and physical conditions. Some 800 students will participate in this project over a two year period. Achievement will be measured through testing that measures understanding and proficiency in the STEM disciplines. Successful field instruction will be measured through pre/post testing. Prior to the field work, students will pre-test to determine existing knowledge and attitude towards the natural environment, including the use of a Likert scale for quantitative assessment. The same test is again administered to establish knowledge and attitudinal change.

Teacher Education Goals. This project provides educators with the methods and tools needed to effectively deliver experiential lessons that address theories and concepts related to water quality and watersheds. Next Generation Science Standards are addressed through interactive learning modules that support professional development goals. Continuing education credits are available for those teachers who wish to participate in our field institute offered in collaboration with the University of Nevada Reno's Extended Studies. This integrated approach will allow for educators to apply their understanding of the field course material while working with our summer students during restoration ecology programs held at Galena.

Success will be measured by the total number of educators completing summer programs. Teachers will also be given an evaluation to assess the success of the field study. Additional feedback will be sought to inform future educational outreach programs for the general public. GBI naturalists and educators will complete an evaluation of the program and projects, what they learned from the lessons and experience, and the tools they need to implement outdoor education in the future. A second teacher workshop will be introduced in June of 2020.

Public Outreach Goals. Restoration sites will be identified through signage that interprets the importance of watershed stewardship for user groups at the park. Public lectures and nature hikes hosted by GBI at the Visitor Center will utilize the sites for demonstration and ongoing learning of adaptive management practices. Additional outreach on the project will include press releases, updates on social media, and project information on the Galena Creek Visitor Center website. Success will be measured by capturing total outreach completed and number of participants in attendance at lectures and total number of those recreating at the site. The total number of public visitors reached through lectures, hikes, and social media will capture benefits to various user groups.

2. Project Location. Galena Creek Regional Park, Truckee River Watershed, Galena Creek Tributary (Latitude: 39.354398, Longitude: -119.858144)

3. Project Description. GBI seeks to expand learning opportunities, specifically for Title I students, in service-based outdoor education through collaboration with educational institutions, land management agencies, and local foundations. The Institute delivers educational programs while serving as lead organization at the Galena Creek Visitor Center, a partnership with Washoe County and the US Forest Service now entering its eleventh year. This collaboration aims to ensure students have access to integrated educational activities at outdoor sites of learning, regardless of financial limitations. Utilizing the infrastructure at the Regional Park, including the interpretative center, residential facility and historic fish hatchery, the Institute provides field study programs for schools and the general public. This project builds upon the successful partnerships made possible at this unique urban forest location.

For this project, the Institute will establish restoration sites along Galena Creek, an at-risk tributary of the Truckee River. Project staff will present STEM-based curricula to Washoe County classrooms and will introduce students to theories and concepts of applied restoration and watershed stewardship. Students will be challenged with inquiry-based field studies at Galena where students actively develop site plans, then participate in hands-on restoration and

monitoring activities. A post-trip classroom visit will capture learning outcomes through testing. This project addresses the need for civic local engagement in active restoration activities, providing integrated learning opportunities and ongoing stewardship of our local watershed.

4. Grant Priorities. This project supports multiple Truckee River Fund priorities that seek watershed improvements by reducing sediment, suspended solids, or TDS discharges to the Truckee River. The project also supports the development and implementation of educational programs relative to water, water quality and watershed protection.

5. Permitting. Project site is located within Galena Creek Regional Park and does not require special permitting.

6. Future Land Use. Land use status will remain protected under the Washoe County Parks and Open Space Plan.

7. Future Phases. Future restoration sites at Galena Creek will be identified based on successful restoration trials. NDEP 319 funding may be sought to expand programming.

8 Principals Involved. Jerry Keir, GBI Executive Director. Colleen Wallace, Washoe County Parks Regional Manager, Dr. Stephen Lafer, Professor of Education, Emeritus, University of Nevada, Reno.

9 Staff Positions Involved. GBI Educators, Naturalists, Restoration Ecologists, and Administrators will support the implementation of this project.

10 Volunteers Involved. Volunteers in this project include AmeriCorps restoration team members and educational docents serving at the Galena Creek Visitor Center. Total 12 individuals for 1300 hours.

11 Time Line.

Fall 2019. After having established monitoring plots and transects, initial restoration begins at demonstration site. Species selection and ordering will be made through NDF nursery and Comstock Seed. Moderate terracing of streambed will allow for seedling planting, willow waddling, staking, seed dispersal and jute mat coverage. Treatment area will be secured with orange Tenax snow fencing, and temporary signage will be installed for protection and interpretation.

Spring / Summer 2020. Course packets developed for educators. Classroom visits with schools to introduce core STEM concepts completed. Monitoring of initial site with student groups in late spring. Educational programs delivered to summer camps, teacher institutes, and public outreach events.

Fall 2020. Secondary restoration trials implemented with the support of student groups and GBI restoration teams. Additional monitoring plots established and databases archived for legacy data and project reporting.

Spring/Summer 2021. Course packets developed for educators. Classroom visits with schools to introduce core STEM concepts. Monitoring of initial site with student groups in late spring. Educational programs delivered to summer camps, teacher institutes, and public outreach events.

Fall 2021. Monitoring restoration sites continues with the support of student groups and GBI restoration teams. Additional treatments for adaptive practices completed. Monitoring continues twice annually by GBI Galena staff. Completed evaluations and reporting done by calendar year end.

12 Success. Success will be characterized by completed restoration on the Galena drainage with ongoing monitoring sites established by teachers and students from Title One schools. Curricula will be developed and utilized for subsequent student groups attending field studies at Galena. STEM-based

13 Grant Match. Match is provided by grants made possible by the Nell J. Redfield Foundation, the William Pennington Foundation, AmeriCorps, and through program fees and contributions provided by school groups and the general public.

14 Project Budget

See attachment.

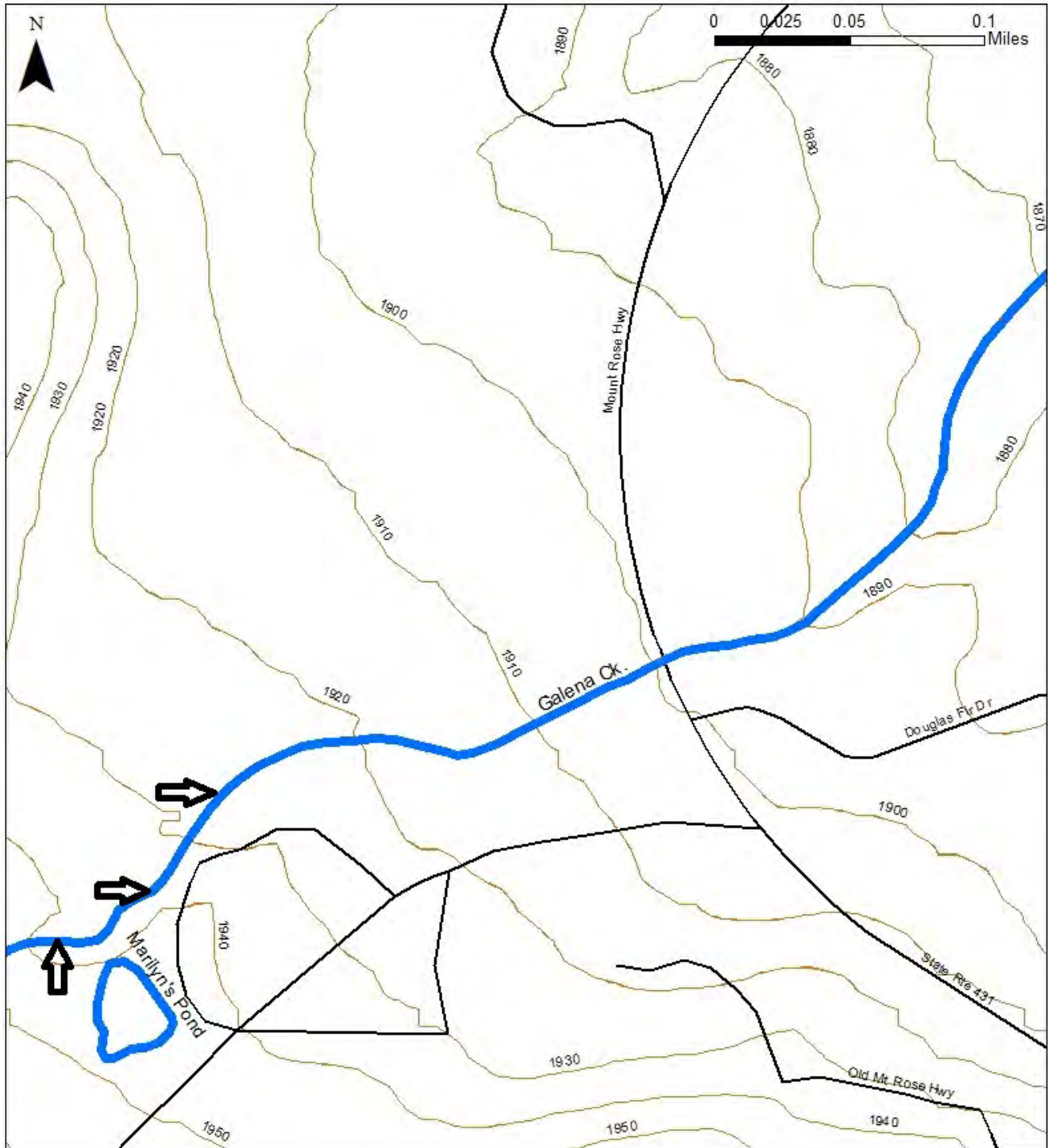
Program Budget					
Budget Item Description	TRF \$	Other Funding	Match Cash	Match In-kind	Total
Environmental Education Coordinator	11,363.00	Great Basin	15,247.00		26,610.00
1 AmeriCorps Member (Naturalist) Living allowance	6,234.44	AmeriCorps		2,097.00	8,331.44
Galena Creek Field Institute Coordinator	12,210.00	Great Basin	24,420.00		36,630.00
Summer Teacher Institute Stipends	1,500.00				1,500.00
Aquatic Equipment and Samples	1,016.00				1,016.00
Interpretive Signage	725.00				725.00
Travel/Transportation	1,000.00				1,000.00
Total Direct Cost	34,048.44				
Indirect Cost (21.45%)	730.34	Great Basin	6,573.05		6,573.05
Total	34,778.78				82,385.49

Grant Match				
Match amount to be provided	48,337.05			
Match Details:	Match is:			
	Cash	46,240.05		
	In-Kind	2,097.00		
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes *Note substantial match in Phase One			
Description of matching funds/in-kind donations:	Contributions through local foundations, AmeriCorps, and Program Fees will be contributed to this project.			



Sample Areas for Ecological Restoration





Legend

- Waterbodies
- Roads
- Contour Lines



In-Service Education Opportunity

Galena Creek Field Institute

Wednesday & Thursday, October 9-10, 2019



Join area conservation specialists and educators at Galena Creek Regional Park to learn field methods in aquatic monitoring and stream restoration. Get your hands dirty during this two day in service workshop that explores interdisciplinary approaches to the study of stream and forest ecology and the practice of ecological restoration as a service learning activity. As we study Galena Creek,

educators will utilize information provided through instructor and guest lectures, readings, and hands-on problem solving to support pedagogical approaches to K-12 field study. This course provides instructional tools that help students achieve goals established by the Next Generation Science Standards in ways that emphasize critical thought across the disciplines.

Lab Fee: \$75. Students will be reimbursed by the Great Basin Institute upon successfully completion of this 1 credit in service workshop (*pending DOE approval) through funds made possible by a generous grant from the Truckee River Fund. Educators may also receive a travel stipend for their students to join restoration activities at Galena Creek during the fall 2019 school year.

To register online:

https://exreg.unr.edu/eCS/CourseListing.aspx?master_id=2165&master_version=&course_area=PD&course_number=164&course_subtitle=00

For more information: Contact Jerry Keir, Executive Director, Great Basin Institute, by email, keir@unr.edu or by phone at 775.846.9310.

TO: Truckee River Fund Grant Review Committee
FROM: Jerry Keir, Executive Director
RE: Grant Request for Galena Creek Ecological Restoration & Demonstration Project
DATE: August 2, 2019

As Executive Director of Great Basin Institute, I am writing to confirm our staff support and fiscal contribution to the grant application. Our organization operates environmental programming at Galena Creek Regional Park and seeks to further our efforts toward promoting service-learning and stewardship activities through this grant proposal.

To provide background, the Institute operates field studies at the Galena Creek Visitor Center and the WeChMe Lodge at the Galena Creek Recreation Area, six miles from south Reno. The Field Studies program through GBI supports youth engagement strategies to achieve improved academic outcomes through field-based service-learning. Our collaboration with school systems improve school readiness for economically disadvantaged Washoe County children, and enhance educational and behavioral outcomes of students in low-achieving elementary, middle, and high schools. The programs aid the preparation for successful transitioning to post-secondary educational institutions for economically disadvantaged students.

The field studies have grown in seven years to serving 4,180 student days in calendar year 2018 with robust, Next Generation Science Standards-based curriculum in a discovery-based outdoor setting. Our emphasis is to provide academic enrichment for at-risk youth, and, as such, the percentage of Title I students served in the 2018 calendar year was 62.3% of the total 4,180 students. The program has received recognition from Washoe County and the US Forest Service, and educational awards from the federal Corporation for National and Community Service.

Since 2009, the US Forest Service and Washoe County Regional Parks and Open Space have provided in-kind support for learning facilities for our educational programs. Additionally, direct cash support from the Redfield Foundation (\$78,000), and the Pennington Foundation (\$22,000) will contribute to the match for this project. Academic support and direction is also provided by our Board of Advisors, which includes Washoe County Science Coordinator, the STEM Coalition, and NWRPDP Science Learning Facilitators.

Your generous support will make such important learning experiences accessible to those who otherwise would be left inside the classroom. Please feel free to contact me directly should you have any questions regarding the programs or proposed activities for Galena.

Sincerely,

Jerry Keir

Executive Director, Great Basin Institute
775-846-9310
jkeir@gbinstitute.org



College of Agriculture,
Biotechnology, and Natural Resources
University of Nevada, Reno

Glenn C. Miller, Professor

NATURAL RESOURCES AND ENVIRONMENTAL SCIENCE

January 28, 2019

Dear Grant Review Committee,

I am pleased to offer my support for the Great Basin Institute's proposal for the Galena Creek Ecological Restoration Project which is being proposed for funding by the Truckee River Fund. As a faculty member at the University of Nevada, Reno, and as Chair of the Institute's Board of Directors, I endorse such collaborative efforts and seek to further promote our involvement in science-based educational outreach and public land management.

The scope of the project well represents the best of outcomes when we contemplate informed environmental education and stewardship practices. The project brings together universities, agencies, and NGOs to accomplish the greatest good during a time when forest and riparian health seems to struggle the most. The board of GBI, most of whom are faculty from the University, seeks to further such efforts aimed at advancing applied science to support educational programming and teacher training. I believe this project accomplishes such goals admirably and I look forward to working with cohorts to ensure all project deliverables are met. The work as outlined in the proposal offers the sort of planning and execution of conservation initiatives that speaks well of all those involved and rightfully deserves support from the Fund.

Please feel free to contact me directly at 775-784-4108 or 775-846-4516 (C) should you have any questions or concerns. I look forward to your favorable consideration.

Sincerely,

Glenn C. Miller, Professor



08-23-19 TRF Agenda Item 9
3101 LONGLEY LANE
#228
PO BOX 11130
RENO, NEVADA 89520-0027
PHONE (775) 328.2181
FAX (775) 328.2110

WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Operations

TO: Truckee River Fund Grant Review Committee

RE: Great Basin Institute Grant Request for Galena Creek

DATE: Febraury 8, 2019

I am writing in support of Great Basin Institute's application for restoration and educational outreach at Galena Creek Regional Park. Since 2008, the Institute has successfully operated the Galena Creek Visitor Center. Each year, the organization has improved upon the delivery of services to the park and the public, achieving a reputation for professional competency among our county staff and cooperators. The staff at Galena are diligent, effective, and committed to programmatic excellence.

The proposed enhancements to Galena Creek and the associated environmental programs build upon GBI's successes at the visitor center and extends vital public outreach that is important to our shared mission. The project incorporates innovative learning strategies, increases student participation at the park, and supports ecological resiliency for the public lands we collaboratively manage.

I support this project without qualification and look forward to collaborating with GBI on delivering exceptional programming to our county students, educators, and visiting public.

Sincerely,

Colleen Wallace Barnum

Park Operations Superintendent



INTEGRITY



EFFECTIVE
COMMUNICATION



QUALITY
PUBLIC SERVICE



Board of Directors

Glenn Miller, PhD., Board Chair, Professor of Natural Resources and Environmental Science, University of Nevada, Reno

Sudeep Chandra, PhD., Associate Professor of Natural Resources and Environmental Science, University of Nevada, Reno

Nancy Markee, PhD., Associate Professor of Natural Resources and Environmental Science, University of Nevada, Reno

Peter Weisberg, Ph.D., Associate Professor of Biology, University of Nevada, Reno

Steve Lafer, PhD., Associate Professor of Education, University of Nevada, Reno

Alan Gubanich, PhD., Emeritus Professor of Biology, University of Nevada, Reno

Lou Robinson, CPA, Alliance Trust