

# TRUCKEE RIVER FUND

Enhancing and protecting our water resources

## TRUCKEE RIVER FUND ADVISORY COMMITTEE

### AGENDA

Friday, August 21, 2020, 8:30 a.m.

### Meeting Via Teleconference Only

MEMBERS OF THE PUBLIC MAY ATTEND VIA THE WEB LINK, OR  
TELEPHONICALLY BY CALLING THE NUMBER, LISTED BELOW.  
NO PHYSICAL LOCATION IS BEING PROVIDED FOR THIS MEETING  
**(be sure to keep your phones on mute, and do not place the call on hold)**

Please click the link below to join the webinar:

<https://us02web.zoom.us/j/8785686516?pwd=K29WZlN1a0Q2Wm1YbnpIR111SzJUUT09>

Zoom Meeting ID: 878 568 6516

Password: CFWN

#### NOTES:

1. Unless and until the Governor issues a Directive or Order requiring a physical location be designated for meetings of public bodies where members of the public are permitted to attend and participate, no members of the public will be allowed in the TMWA's Corporate Office due to concerns for public safety resulting from the COVID-19 emergency and pursuant to the Governor of Nevada's Declaration of Emergency Directive 006 Section 1 which suspends the requirement in NRS 241.023(1)(b) that there be a physical location designated for meetings of public bodies where members of the public are permitted to attend and participate and subsequent directives related to social distancing. This meeting will be held by teleconference only.
2. The announcement of this meeting has been electronically posted in compliance with NRS 241.020(3) and Directive 006 at <http://www.tmwa.com>, and NRS 232.2175 at <https://notice.nv.gov/>.
3. Pursuant to Directive 006, the requirement contained in NRS 241.020(3)(c) that physical locations be available for the public to receive supporting material for public meetings has been suspended. Staff reports and supporting material for the meeting are available on the TMWA website at <http://www.tmwa.com/meeting/> 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 Pursuant to Directive 006, public comment, whether on action items or general public comment, may be provided without being physically present at the meeting by submitting written comments online by email sent to [irenda@nevadafund.org](mailto:irenda@nevadafund.org) prior to the Committee opening the public comment period during the meeting. In addition, public comments may be provided by leaving a voicemail at (775)834-0255 prior to 4:00 p.m. on August 20th. Voicemail messages received will either be broadcast on the telephone call during the meeting or transcribed for entry into the record. Public comment is limited to three minutes and is allowed during the public comment periods. The Committee may elect to receive public comment only during the two public comment periods rather than each action item. Due to constraints of TMWA's videoconference system, public comment must be provided by voicemail, email, or online comment as indicated above.

1. Roll Call\*
2. Public comment (limited to no more than three minutes per speaker)\*
3. Approval of the agenda (**for possible action**)
4. Approve the February summary meeting minutes (**for possible action**)
5. Fund balance report\*
6. Review grant proposals to Truckee River Fund and select projects to be recommended for funding (**for possible action**)
7. Discuss nomination for officers (**for possible action**)
8. Committee and staff comments\*
9. Next meeting: November 20, 2020 (**for possible action**)
10. Public comment (limited to no more than three minutes per speaker)\*
11. Adjournment (**for possible action**)

## MEETING MINUTES (TRANSCRIPT SUMMARY)

### TRUCKEE RIVER FUND ADVISORY COMMITTEE MEETING OF FEBRUARY 28, 2020

The following meeting minutes is a summary of the certified transcript for the Truckee River Fund Advisory Committee meeting held at 8:30 a.m., Friday, February 28, 2020.

**Those Present:** Committee Members: Janet Phillips, Chairman; Brian Bonnenfant, Vice Chair; Don Mahin; Ron Penrose; Mike Brisbin (phone); Bill Bradley; and Candice Elder; Also: Lauren Renda, Community Foundation of Western Nevada; Sonia Folsom, TMWA; and Sarah A. Ferguson, Esq., McDonald Carano, LLP; Members of the Public: Chris Binder, Tahoe Rim Trail Association; Eaton Dunkelberger and Sean Hill, both with Sierra Nevada Journeys; Lisa Wallace and Eben Swain, both with Truckee River Watershed Council; Iris Jehle-Peppard, One Truckee River; and Nora Richter and Chris Cutshaw, both with Friends of Nevada Wilderness.

\* Committee member arrived after roll call

\*\* Committee member left meeting before adjournment

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

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

**Agenda Item #3: Approval of the agenda (for possible action):** The agenda, which included a change to move Agenda Item #6, goals, ahead of Agenda Item #7, grant proposals, was unanimously approved.

**Agenda Item #4: Approve the November summary meeting minutes (for possible action):** The Meeting Minutes (Transcript Summary) for November 22, 2019 was unanimously approved.

**Agenda Item #5: Fund balance report:** Lauren stated that there is currently \$273,099, with a distributable amount of \$197,900, with the difference being already allocated to other projects, either waiting for bills or in reserve.

**Agenda Item #6: Review grant proposals to Truckee River Fund and select projects to be recommended for funding (for possible action):** Discussion under Item #7 preceded this item and reminded the group that the TMWA Board wants to focus on urban contamination

issues. The following grant proposals were considered at length and voted on by the group and approved, rejected/declined, or action taken as follows:

#229, Tahoe Rim Trail Association, Enhancing Water Quality Along the Tahoe Rim Trail in Tahoe City, amount requested \$6,606. Chris Binder was present and provided input and answered questions. Lisa Wallace also provided some input regarding other road and trail stream crossings that are failing as well. There was discussion about supporting the incredible Tahoe Rim Trail but that this is not the time to use some of the money to improve a single drainage crossing. For that reason, the full amount requested of \$6,600 was unanimously declined.

#230, Sierra Nevada Journeys, Watershed Education Initiative for the Urban Truckee River Corridor, amount requested \$30,912. The full amount requested of \$30,912, with a request to look at the downtown situation next time, was unanimously approved. Eaton Dunkelberger and Sean Hill were present and provided input and answered questions. Lisa Wallace provided input regarding the water purveyors in Truckee.

#231, Truckee River Watershed Council, Coldstream Canyon Sediment Reduction Project, amount requested \$50,000. The full amount requested of \$50,000 was unanimously declined because the project doesn't fit the criteria right now, with directions that staff should explain to the TMWA Board why erosion control is also important, and the proposer is encouraged to resubmit it at our next funding meeting in the fall. Eben Swain and Lisa Wallace were present and provided input and answered questions.

#232, Truckee Donner Land Trust, Truckee Springs Open Space Trail Planning, amount requested \$25,000. The full amount requested of \$25,000 was unanimously declined because it is not a viable project at this time. Janet abstained from the vote due to her active role in trailbuilding. Vice Chair Brian Bonnenfant chaired this item after input from Ms. Ferguson. No one was present representing this proposal.

#233, Sierra Watershed Education Partnership (SWEP), Water Quality and Watershed Education Projects/Programs, amount requested \$15,000. The full amount requested of \$15,000 was unanimously declined because it doesn't fit the criteria this time around of focus on the urban corridor here in Reno.

#234, Friends of Nevada Wilderness, Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding #8, amount requested \$28,549. The full amount requested of \$28,549 was unanimously approved. It was noted that the distinction between this project and some of the upstream sediment projects is it's in more immediate proximity to the points of diversion. Nora Richter and Chris Cutshaw were present and provided input and answered questions. Iris Jehle-Peppard commented that it's valuable to mention that it's a prioritized action item of the One Truckee River partnership; and Sonia will make sure that goes into the presentation staff makes to the Board.

#235, One Truckee River, One Truckee River Overall Support, amount requested \$74,293. The full amount requested of \$74,293 was unanimously approved, and it was noted that this is the only proposal we got that actually targets what the TMWA Board said they wanted to focus on. Brian Bonnenfant abstained from the vote because he is a member of both OTR and NLT. Iris Jehle-Peppard was present and provided input and answered questions.

Project advisors for the approved proposals were assigned as follows: #230, Michael Cameron; #234, Brian Bonnenfant; and #235, Bill Bradley.

**Agenda Item #7: Discuss possible changes to Truckee River Fund goals (for possible action):** This item was heard before Agenda Item #6 per a change in the agenda as noted in Agenda Item #3. Janet stated that this a continuation from our last meeting in November and that it came up because of the TMWA Board's remarks. Sonia described the TMWA meeting in December when John Enloe presented to the Board for discussion the TRF grant priorities and guiding documents per a request to specifically have projects that improve the water quality and address the homeless sanitation issue in the downtown corridor of the Truckee River, which is why Bill Bradley then wrote a letter for the spring proposal to draw out key projects. But TMWA's guidance didn't preclude other projects. She stated that they're eager to see the Portland Loo project first phase and described the funding for that project. There were questions, comments and discussion regarding the wishes of the TMWA Board and the projects to be heard today, and the process to review today's proposals then went forward as usual.

**Agenda Item #8: Discussion and possible plan for 2020 field trip (for possible action):** There was discussion about where and when to go on a field trip, with an idea of possibly seeing the Loo once there's enough construction on the ground to get an idea about it. This item was deferred till the next meeting. No action was taken.

**Agenda Item #9: Committee and staff comments:** Ron Penrose announced he's resigning. He'll send an email that that's his intent. He stated that he has enjoyed this committee since its inception and has always felt that this was kind of the missing link for protecting surface watershed, with TMWA's overall water quality programs. There were comments regarding filling that position.

Susan wasn't present, but we were going to mention our appreciation of her service.

**Agenda Item #10: Next meeting: May 15, 2020 (for possible action):** The next meeting is set for May 15th. No action was taken.

**Agenda Item #11: Public comment (limited to no more than three minutes per speaker):** There was no public comment.

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

## Truckee River Fund, Fall 2020 Proposals

[illegible]



**Cover Sheet**

**Date: July 27, 2020**

<b>Organization Name:</b>	Sierra Nevada Journeys																				
<b>Type:</b>	501(c)(3) EIN#01-0881587	Governmental entity? No																			
<b>Address:</b>	190 E. Liberty Street, Reno NV 89501																				
<b>Project Name:</b>	Watershed Education Initiative for the Urban Truckee River Corridor																				
<b>Amount requested: \$32,041</b>	<b>Website:</b> www.sierranevadajourneys.org																				
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>	Deliver high-quality, experiential watershed education programs based on water quality issues and invasive species along the urban Truckee River corridor to empower youth to take action for the protection and enhancement of the water quality of the Truckee River. To meet schools' needs in case of closures, we have a distance learning program in place called Sierra Nevada Journeys Virtual Classrooms that will still significantly engage students, teachers and parents with watershed education.																				
<b>Key People:</b>	<b>Director:</b>	Eaton Dunkelberger, CEO																			
	<b>Board Chair:</b>	Shane Tucker																			
	<b>Project Contact:</b>	<b>Name:</b>	Sean Hill																		
		<b>Position:</b>	Education Director																		
		<b>Phone:</b>	775-355-1688																		
		<b>Fax:</b>	775-329-1689																		
		<b>Email:</b>	sean@sierranevadajourneys.org																		
<b>Organization Mission:</b>	<b>To deliver innovative outdoor, science-based education programs for youth to develop critical thinking skills and to inspire natural resource stewardship.</b>																				
<b>Has your organization received other grants from the Truckee River Fund?</b> <b>Yes X No</b> (use additional page if necessary)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>April 2020</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$30,912</td> </tr> <tr> <td>Date awarded:</td> <td>October 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>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> </table>			Date awarded:	April 2020	Project title:	Watershed Education Initiative	Amount of Award:	\$30,912	Date awarded:	October 2019	Project title:	Watershed Education Initiative	Amount of Award:	\$36,207	Date awarded:	April 2019	Project title:	Watershed Education Initiative	Amount of Award:	\$36,207
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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.<sup>1</sup>
- ☒ E. Other projects that meet the evaluation criteria.

<sup>1</sup> For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. [lrenda@nevadafund.org](mailto:lrenda@nevadafund.org); 775-333-5499.



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

During the past 10 years, Sierra Nevada Journeys' (SNJ) Watershed Education Initiative (WEI) has impacted over 8,575 students and 521 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. With the specific focus of impacting the urban Truckee River corridor this spring 2020 through WEI, we will successfully meet the following objectives:

Outputs	Outcomes
<p>Deliver WEI to 1,326 K-8th grade students specifically from along the urban Truckee River corridor</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, or, in the case of a distance learning model, a virtual field trip or case study of the Truckee River.</p> <p>Provide 49 teachers with WEI extension lessons.</p>	<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>70% 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>95% of teachers will report that the program is helping to build critical thinking skills among their students.</p>

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.

If Sierra Nevada Journeys WEI transitions to a virtual platform due the COVID-19 crisis, we still anticipate reaching 49 teachers, 1,326 students with Virtual Classrooms and over 2000 unique page views with Sierra Nevada Journeys at Home, which provides hands-on (including watershed) activities for use at home. Sierra Nevada Journeys is committed to being part of the solution in filling any unexpected education gaps created by the pandemic.

- 2. Project location** During Fall 2020, the three main field sites for this program will be located through and downstream of the urban corridor of the Truckee River; Mayberry Park, Oxbow Nature Study Area and the McCarran Ranch Preserve. These locations are convenient and close to home for local students, increasing their sense of ownership, awareness and comfort with accessible





nature areas, and highlight regions along the Truckee that are impacted by urban growth and development.

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, climate change, 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.<sup>2</sup>

Through WEI, SNJ provides local youth with opportunities to have an interactive experience outdoors, increasing their likelihood to cherish nature, engage with it and become stewards of their natural resources.

With this funding, SNJ will serve 1,326 students in 49 classrooms within 10 miles of the urban corridor of the Truckee River. 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 along the Truckee River. 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-8<sup>th</sup> grade students, directly aligning with grant priority VI:

<sup>2</sup> 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>





*Stewardship and Environmental Awareness.* Students gain first-hand experience determining water quality, explore human impacts on their water source, and obtain skills, knowledge and a field experience to connect them to their local river. The overall long-term program impacts include:

- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- 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 Vice President of Education, 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 **4** Part-time **1**

10. Number of **volunteers involved:** If the project runs in-person, over **100** volunteers (including field educators and parent volunteers) will donate **time** during WEI's field-study portion of the program, increasing parents and community member access to watershed education.

11. **Time Line of Project.**

Deliverables	2020					
	July	Aug	Sep	Oct	Nov	Dec
<b>Recruitment/Scheduling:</b> 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.						
<b>Program Delivery:</b> SNJ instructors will deliver engaging watershed education lessons to 1,326 students through school-based and field-based programs.						
<b>Evaluation:</b> 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.						
<b>Final Report:</b> 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 1,326 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, or, in the case of a distance learning model, a virtual field trip or case study of the Truckee River.</p> <p>Provide 49 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>70% 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>95% 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

<b>Match amount to be provided:</b>		<b>\$7,959 (25% of requested funds)</b>
<b>Match details:</b>	Match is:	
	Cash	<b>\$7,959</b>
	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>
<b>Description of matching funds/in-kind donations:</b>	<b>\$7,959 from Nevada State Parks Recreational Trails grant (full amount of gift is \$20,000)</b>	



**14. Project Budget**  
**Watershed Education Initiative (WEI) Budget**

Program Budget for Classrooms Unleashed						
Item	Description	School Year Expense 2020-2021	Expense Per Student	WEI Fall 2020 Expenses 1326 students	Match	TRF Request
Education Personnel	Education Instructors, Program Directors and Coordinators	\$ 290,870	\$ 24	\$ 32,149	\$ 1,500	\$ 30,649
Direct Program Expenses	Direct program expenses, including: program and field day supplies, printing and paper, uniforms, etc.	\$ 12,613	\$ 1	\$ 1,393		\$ 1,393
Occupancy Expense	Rent and utilities	\$ 31,051	\$ 3	\$ 3,435	\$ 3,435	
Administration Expense	Marketing, office supplies, postage, outside printing services, internet and telephone	\$ 27,315	\$ 2	\$ 3,024	\$ 3,024	
	<b>Total Expenses</b>	<b>\$ 361,849</b>	<b>\$ 30</b>	<b>\$ 40,000</b>	<b>\$ 7,959</b>	<b>\$ 32,041</b>



**Truckee River Fund 2020 Request for Proposals**

**Cover Sheet**

**Date: July 28, 2020**

<b>Organization Name:</b>	The Nature Conservancy		
<b>Type:</b>	501(c)(3) EIN# 53-0242652	Governmental entity? N	
<b>Address:</b>	One East First Street, Suite 1007, Reno, NV 89501		
<b>Project Name:</b>	Developing Forest Resilience to Fire – Independence Lake		
<b>Amount requested: \$40,755</b>	<b>Website:</b> www.nature.org/nevada		
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>	Mechanically thin very dense stands of lodgepole pine along both sides of the outflow channel from Independence Lake. This will prevent the channel from becoming clogged with fallen trees under wildfire conditions.		
<b>Key People:</b>	<b>Director:</b>	Mace Hack, Interim State Director	
	<b>Board Chair:</b>	Joel Laub	
	<b>Project Contact:</b>	<b>Name:</b>	Chris Fichtel
		<b>Position:</b>	Independence Lake Project Director
		<b>Phone:</b>	775-313-8646
		<b>Fax:</b>	N/A
		<b>Email:</b>	cfichtel@tnc.org
<b>Organization Mission:</b>	The mission of The Nature Conservancy is to conserve the lands and waters on which all life depends.		
<b>Has your organization received other grants from the Truckee River Fund?</b> <b>Yes X No</b> (use additional page if necessary)	<b>Date awarded:</b>	September 5, 2014	
	<b>Project title:</b>	Truckee River Watershed Restoration – Forest Thinning at Independence Lake Preserve – 2014	
	<b>Amount of Award:</b>	\$50,000	
	<b>Date awarded:</b>	March 21, 2013	
	<b>Project title:</b>	Truckee River Watershed Restoration – Forest Thinning at Independence Lake	
	<b>Amount of Award:</b>	\$41,300	
	<b>Date awarded:</b>	September 19, 2012	
	<b>Project title:</b>	Independence Lake Woody Fuels Reduction for Fire Resilience – Year 3 Supplemental Funding	
	<b>Amount of Award:</b>	\$30,000	
	<b>Date awarded:</b>	October 20, 2011	
	<b>Project title:</b>	Preventing Aquatic Invasive Species at Independence Lake	
	<b>Amount of Award:</b>	\$28,290	



	Date awarded:	October 25, 2010
	Project title:	Independence Lake Woody Fuels Reduction for Fire Resilience – Year 3
	Amount of Award:	\$60,000
	Date awarded:	July 27, 2010
	Project title:	Independence Lake Woody Fuels Reduction for Fire Resilience
	Amount of Award:	\$50,000
	Date awarded:	December 29, 2008
	Project title:	Independence Lake – Forest and Wildfire Management
	Amount of Award:	\$237,110

### 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.  
☒ E. Other projects that meet the evaluation criteria.

### NARRATIVE REQUIREMENTS

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

- ☐ Reduce the likelihood of wildfire induced debris blockage of the lake's outflow channel by reducing the density of standing trees at the edge of the channel, especially those trees that are diseased, dead or drought stressed.
- ☐ Improve resiliency of the forest adjacent to Independence Lake to wildfire and sediment transport by mechanically thinning to reduce fuel loads in these forests.

#### 2. Project location. Independence Lake Preserve in Sierra County, CA at the headwaters of Independence Creek, a tributary to the Little Truckee River.

#### 3. Project description.

Along both sides of the outflow channel of Independence Lake is an area of approximately 11 acres encompassing very dense stands of lodgepole pine. These trees are growing on spoils from the construction of the channel in the late 1930s. The density of lodgepole pines is concerning because if wildfire burns in these stands, the trees are likely to topple into the channels and create a severe debris blockage. Since 2009, we have mechanically thinned a total of 532 acres.

The Nature Conservancy (TNC) proposes to contract a licensed timber operator to mechanically thin and remove dead, diseased, and otherwise stressed pines and remove them. The trees will be chipped and hopefully delivered to the Loyalton Co-Generation Plant for use as biomass energy.

We will also contract with a Licensed Timber Operator to mechanically thin 225 acres of dense mixed conifer forest along Independence Lake in 2021 at TNC's Independence Lake Preserve. TNC will contract with a Registered Professional Forester that we have used in the past to implement similar thinning projects on the Preserve, some with past funding from TRF Funding for this



lakeshore thinning work will be provided by a grant from the California Department of Forestry and Fire Protection (Cal Fire.)

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

IV. The project will improve resiliency of the forest to wildfire and reduce the risk of woody debris blockage to TMWA's outflow channel below the Independence Lake dam, reducing the risk of fire and sediment deposition along the north and south shores of the lake.

**5. Permitting.**

The thinning along the outflow channel will require a Dying & Diseased Exemption from Cal Fire – no cost. Controlled burning adjacent to the thinning already has an Notice of Exemption from Cal Fire, issued in 2019. The lake thinning will be permitted under a Timber Harvest Plan that we anticipate Cal Fire will approve by January 1, 2021.

**6. Future land use. List any known or foreseeable zoning, land use, or development plans that may affect your proposed project. None**

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

Cal Fire will provide the funding.

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

Principals for TNC include Chris Fichtel, Independence Lake Project Director and Kevin Whitlock, a Registered Professional Forester (RPF) under contract to TNC. Other TNC support staff involved in the project include: Grants and Contract Specialist and the Senior Attorney.

**9. Number of staff positions involved in project: One part-time staff person**

**10. Number of volunteers involved in project and an estimated number of volunteer hours. 0**

**11. Timeline of Project. The proposed thinning operations will take place in the summer/fall of 2021.**

**12. Success. Tell the committee how we will know you succeeded in what you proposed to do.**

Successfully thinning of up to 11 acres along the TMWA outlet and up to 225 acres along Independence Lake.

**13. Collaboration. List partnerships or collaborations with other entities in relation to your proposal, if any.**

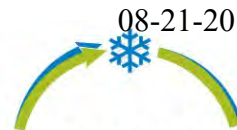
TMWA controls the dam and water levels on Independence Lake as it is part of the drinking water supply for Reno. Cal Fire is the partner that will oversee the thinning.



14. Grant match.

<b>Match amount to be provided:</b>		<b>\$21,568</b>		
<b>Match details:</b>	<table border="1"><tr><td>Cash</td><td>\$21,568</td></tr></table>	Cash	\$21,568	
	Cash	\$21,568		
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No <u>X</u> Funding is held by the agency which will pay out as invoiced.				
<b>Description of matching funds/in-kind donations:</b>	Matching funds are from a grant approved by the California Department of Forestry and Fire Protection (Cal Fire). That grant ends in January 2022.			





**BUDGET**

Budget Item Description	TRF \$	Other Funding Name (in hand)	Match \$	Total
Contracting-thinning	\$33,000		-	\$33,000
Contracting - thinning		California Department of Forestry and Fire Protection (Cal Fire)	\$21,568	\$21,568
Overhead (23.5%)	\$7,755			\$7,755
TOTAL	\$40,755		\$21,568	\$62,323



**Cover Sheet**

**Date:** July 29, 2020

<b>Organization Name:</b>	Truckee Meadows Parks Foundation		
<b>Type:</b>	<b>501(c)(3) EIN#</b> 45-4837735	<b>Governmental entity?</b> Y/ <b>N</b>	
<b>Address:</b>	50 Cowan Drive, Reno, NV 89509		
<b>Project Name:</b>	Doggie Ambassador Project		
<b>Amount requested:</b> \$32,028	<b>Website:</b> www.tmparksfoundation.org		
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>		expand regional efforts to reduce pet waste in the Truckee River watershed, parks, trails, and open spaces by increasing dog waste bags station locations and watershed education efforts.	
<b>Key People:</b>	<b>Director:</b>	Heidi Anderson	
	<b>Board Chair:</b>	Sarah Chvilicek	
	<b>Project Contact:</b>	<b>Name:</b>	Miranda Sanford
		<b>Position:</b>	Development Director
		<b>Phone:</b>	(775) 410-1702
		<b>Fax:</b>	N/A
<b>Email:</b>	miranda@tmparksfoundation.org		
<b>Organization Mission:</b>	Truckee Meadows Parks Foundation protects and enhances our communities' livability through public engagement, education, and the sustainability of our parks, open spaces, and trails.		
<b>Has your organization received other grants from the Truckee River Fund?</b> <b>Yes</b> <b>No</b> (use additional page if necessary)	If yes,		
	<b>Date awarded:</b>	October 2, 2019	
	<b>Project title:</b>	Truckee Meadows Nature Study Area: First Year Operational Phase (TRF 226)	
	<b>Amount of Award:</b>	\$101,526	
	<b>Date awarded:</b>	March 26, 2019	
	<b>Project title:</b>	Truckee Meadows Nature Study Area: First Year Operational Phase (TRF 215)	
	<b>Amount of Award:</b>	\$61,400	
	<b>Date awarded:</b>	October 4, 2018	
	<b>Project title:</b>	Truckee Meadows Nature Study Area Project: Planning Phase (TRF 206)	
	<b>Amount of Award:</b>	\$38,400	

**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.<sup>3</sup>
- ☒ E. Other projects that meet the evaluation criteria.

**NARRATIVE REQUIREMENTS**

<sup>3</sup> For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. [lrenda@nevadafund.org](mailto:lrenda@nevadafund.org); 775-333-5499.



# TRUCKEE MEADOWS PARKS FOUNDATION

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## **Doggie Ambassador Project**

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

Truckee Meadows Parks Foundation's Doggie Ambassador Project aims to mitigate harmful environmental and public health impacts of pet waste within the Truckee River watershed. From August 2020 to August 2021, the Parks Foundation will distribute 485,000 dog waste bags to 45 Doggie Ambassador volunteers that will install and refill 97 dog waste bag stations over the course of the grant period. The Parks Foundation will create and distribute educational materials to the public about the harmful effects of pet waste on the watershed and how to properly dispose of pet waste. The Parks Foundation's Communications Manager and Communications Coordinator VISTA will launch 10 social media campaigns and distribute two educational handouts. A final report will be submitted to the Truckee River Fund detailing the number of bags distributed over the year, the number of stations managed and/or replaced, the number of volunteers recruited and managed, and the number of community members reached through the educational campaigns. All of these data will be collected and analyzed through spreadsheet management software and utilized to further inform the community about pet waste and the Truckee River watershed. All volunteers will be trained on data tracking, the importance of proper pet waste disposal, and the effects of pet waste on the Truckee River watershed. Volunteers will also be taught how to effectively communicate this information to the public. The AmeriCorps VISTA Community Engagement Coordinator, under supervision of the Programs and Events Manager, will analyze data.

### **2. Project location.**

The Doggie Ambassador Project manages 72 dog waste stations within 42 City of Reno, Sparks, and Washoe County parks and trails. Existing and proposed stations are shown on page 8.

### **3. Project description.**

The United States Environmental Protection Agency rules pet waste as a nonpoint source environmental pollutant. This places pet waste in the same category as herbicides, pesticides, oil, grease, toxic chemicals, and acid drainage from abandoned mines (US EPA, 2017). Pet waste pollution leads to excess algal growth, increased ammonia levels, harmful biotoxins, noxious aquatic plant growth, nuisance native species growth, excess nitrogen and phosphorus levels, and dangerous pathogens, among other problems (US EPA, 2012). In addition to these detrimental effects to our natural environment, dog waste contributes to a poor experience for community members in their local parks.

Truckee Meadows Parks Foundation believes the best ways to mitigate these problems are to provide education to the public on the harm of improper pet waste disposal and increase availability of pet waste bags. A pet waste education program implemented by the City of Santa Barbara was effective in reducing fecal input from domestic dogs living adjacent to lower AB Creek (Ervin et. al., 2014). Additionally, the City of San Diego spent \$10,000 on trash cans, signage, and dog waste bag stations at a popular dog beach



# TRUCKEE MEADOWS PARKS FOUNDATION

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**AWARENESS • APPRECIATION • STEWARDSHIP**

2000. These efforts led to a measurable decrease in dog waste at the park, estimating the beach was 30%-40% cleaner than before they took action (Watson, 2002).

Washoe County created legislation allowing citations if an individual doesn't pick up their pet waste on personal or county property (WCC 55.130, 2012). Despite this, efforts have been largely ineffective in mitigating the pet waste problem, therefore risking the health of the Truckee River watershed. Local parks department budgets are a fraction of their pre-2008 recession levels preventing municipalities from robustly addressing the issue. Additionally, COVID-19 has dramatically increased the use of parks and trails in the region, further contributing to the pet waste problem.

In the summer of 2016, Truckee Meadows Parks Foundation implemented the Doggie Ambassador Project to combat the impact pet waste has on our community. Currently, the Parks Foundation manages 41 Doggie Ambassador volunteers who obtain dog waste bags from the Parks Foundation and distribute them to 72 stations each month. Initially, the Doggie Ambassador Project serviced City of Reno stations, but in 2019, the project expanded to encompass Sparks and Washoe County parks, trails, and open spaces. As a part of the expansion, the Parks Foundation switched the type of bags and stations to provide continuity between the municipalities. Stations were donated by the manufacturer and bags were donated by the Truckee Meadows Stormwater Permit Coordinating Committee. Even with this expansion there are at least an additional 25 locations that are in need of pet waste stations. Additionally, these newly installed stations have led to increased maintenance costs as they often break leaving many parks unserviceable.

With support from the Truckee River Fund, the Parks Foundation will replace all current stations (from a vendor different than those previously donated), add an additional 25 stations, purchase 485,000 dog waste bags, recruit additional volunteers, and launch watershed social media campaigns to provide educational materials to the community. These areas have been identified by the public, trail user groups, and local municipalities and can be seen on the map on page . Stations within the program will be labeled with specific stickers that provide contact information for community members interested in volunteering. The average station is stocked with approximately 5,000 bags per year and with adding 25 stations, the Parks Foundation anticipates bag distribution to increase 35% from 2020 to 2021.

#### 4. Grant priorities.

Priority II (Watershed Improvements): The Doggie Ambassador Project will reduce the total dissolved solids within the Truckee River Watershed. While data is not tracked internally, this project will reduce fecal matter entering the watershed because of an increase in proper pet waste disposal resources.

Priority VI (Stewardship and Environmental Awareness): The Doggie Ambassador Project empowers community members to take an active role in stewarding their local watershed through the adoption of pet waste bag stations. The project provides these volunteers with the proper tools and education to encourage responsible pet waste disposal throughout the Truckee Meadows. In addition, the Doggie Ambassador



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Project provides education to the community at large through multimedia educational marketing campaigns concentrated on creating a sustainable watershed.

Priority VII (Meets Multiple Objectives)

Priority VIII (Leverage Stakeholder Assets and Participation): The Doggie Ambassador Project works with municipal stakeholders, including the City of Reno, City of Sparks, Washoe County, the Biggest Little Dog Park Coalition, and the Truckee Meadows Stormwater Permit Coordinating Committee to encourage collaborative efforts in reducing the pet waste problem in our watershed and promote the missions of all involved groups. The project leverages these collaborations to gain a wider reach of community members and funding opportunities.

**5. Permitting.**

No permitting is required to support this project. The Doggie Ambassador Project works in cooperation with the City of Reno, City of Sparks, and Washoe County, so any dog waste bag stations added or replaced within the parks will be coordinated directly through the municipalities.

**6. Future land use.**

No foreseeable future land use changes.

**7. Future phases.**

Truckee Meadows Parks Foundation receives funding from an AmeriCorps grant that allows for the placement of the AmeriCorps VISTA Community Engagement Coordinator. This member (with the supervision of Parks Foundation staff) will continue to implement and expand this project in the years to come. The Parks Foundation hopes to continue strengthening the watershed community education component of the Doggie Ambassador Project and continue expanding stations locations. Additionally, the Parks Foundation will seek alternative funding sources, including the Truckee Meadows Storm Water Permit Coordinating Committee and local pet-related businesses to ensure project sustainability.

**8. Principals involved.**

Truckee Meadows Parks Foundation Programs and Events Coordinator, Chantel Dominguez, an AmeriCorps VISTA Community Engagement Coordinator, the Communications Manager, Karly Bristol, and AmeriCorps VISTA Communications Coordinator will be the principals involved in the coordination of the project.

**9. Staff positions involved.**

Full-Time: 0

Part Time (4): Programs & Events Manager (15%), AmeriCorps VISTA Community Engagement Coordinator (50%), Communications Manager (15%), and Communications Coordinator VISTA (15%).

**10. Volunteers involved.**

Currently, Truckee Meadows Parks Foundation manages 41 volunteers through the Doggie Ambassador





# TRUCKEE MEADOWS PARKS FOUNDATION

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Project. In 2019, these volunteers contributed 600.55 hours towards the project. From August 2020 to August 2021, the Parks Foundation anticipated managing 45 Doggie Ambassador volunteers who will each contribute an average of 15 hours in a year for a total of 675 hours.

## 11. Timeline.

August 2020: The Parks Foundation will purchase new stations, bags, and identification stickers. The Parks Foundation will begin planning and recruiting for a volunteer event to install new stations. The Parks Foundation will recruit more volunteers to manage and maintain the new stations.

September 2020: The volunteer station install day will occur. Volunteers will begin distributing dog waste bags to new stations.

September - August 2021 (Monthly): Doggie Ambassador volunteers will obtain and distribute bags. The Parks Foundation will collect and compile monthly volunteer hours and bags distributed. The Parks Foundation will plan and execute a social media campaign. The Parks Foundation will create and distribute watershed and pet waste management marketing materials to local businesses and municipalities.

August 2021: The Parks Foundation will submit a final report detailing the volunteers trained, recruited, and managed; dog waste bags distributed; dog waste stations installed; and other key data.

## 12. Success.

The Parks Foundation will deem the project successful if at least 350,000 dog waste bags are distributed, 45 volunteers contribute 675 hours towards the project, all 97 stations are installed, and 10 watershed social media campaigns are launched during the grant period. Following the conclusion of the grant cycle, the Parks Foundation will provide a final report in September 2021 detailing the number of bags distributed over the year, the number of stations managed and/or replaced, the number of volunteers recruited and managed, and the number of community members reached through the watershed educational campaigns.

## 13. Grant match.

Through a secured federal grant, the Parks Foundation employs an AmeriCorps VISTA Community Engagement Coordinator. This member is responsible for building and maintaining the Doggie Ambassador Project. The value of this AmeriCorps member for 50% of their time spent coordinating the project is \$11,050. Community volunteers are an essential component of the Doggie Ambassador Project. Doggie Ambassador volunteers deliver dog waste bags to stations and educate the community about the Truckee River watershed and proper pet waste disposal. They contribute an average of 1.5 hours of service each month and the Parks Foundation anticipates managing 45 of these volunteers from August 2020 to August 2021. Thus, Doggie Ambassador volunteers provide an in-kind value of \$13,500. Additionally, the watershed education portion of the project will be facilitated by the Parks Foundation AmeriCorps VISTA Communications Coordinator. This AmeriCorps VISTA member is also funded through a secured federal grant and will spend 15% of their time coordinating social media campaigns and outreach for the project, providing an in-kind value of \$3,315. The total grant match value is \$27,685 or 47% of the total budget.



# TRUCKEE MEADOWS PARKS FOUNDATION

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**AWARENESS • APPRECIATION • STEWARDSHIP**

## 14. Project Budget

<b>Budget Item Description</b>	<b>Truckee River Fund</b>	<b>Match Funds</b>	<b>Total Funds</b>
Programs & Events Manager	\$6,741.00	\$0.00	\$6,741.00
Communications Manager	\$6,741.00	\$0.00	\$6,741.00
AmeriCorps VISTA Communications Coord.	\$0.00	\$3,315.00	\$3,315.00
AmeriCorps VISTA Community Engagement Coord.	\$0.00	\$11,050.00	\$11,050.00
97 Dog Waste Bag Dispensers	\$7,700.00	\$0.00	\$7,700.00
485,000 Custom Dog Waste Bags	\$10,700.00	\$0.00	\$10,700.00
97 Station Stickers	\$146.00	\$0.00	\$146.00
Doggie Ambassador Volunteers	\$0.00	\$13,500.00	\$13,500.00
<b>TOTAL</b>	<b>\$32,028.00</b>	<b>\$27,865.00</b>	<b>\$59,893.00</b>





#### Grant Match

<b>Match amount to be provided:</b>	<b>\$ 27,865</b>				
<b>Match details:</b>	<p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1"> <tr> <td>Cash</td> <td>\$ 14,365</td> </tr> <tr> <td>In-kind</td> <td>\$ 13,500</td> </tr> </table> <p>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.</p> <p>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"/></p>	Cash	\$ 14,365	In-kind	\$ 13,500
Cash	\$ 14,365				
In-kind	\$ 13,500				
<b>Description of matching funds/in-kind donations:</b>	<p>Truckee Meadows Parks Foundation's AmeriCorps VISTA members are funded through an AmeriCorps grant. The two VISTA members associated with the Doggie Ambassador Project provide a cash match of \$14,365. Doggie Ambassador volunteers provide an in-kind match of \$13,500, given 45 volunteers contributing 675 hours of time during the grant period. The total match amount is \$27,865, or 47% of the entire project budget.</p>				

#### 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

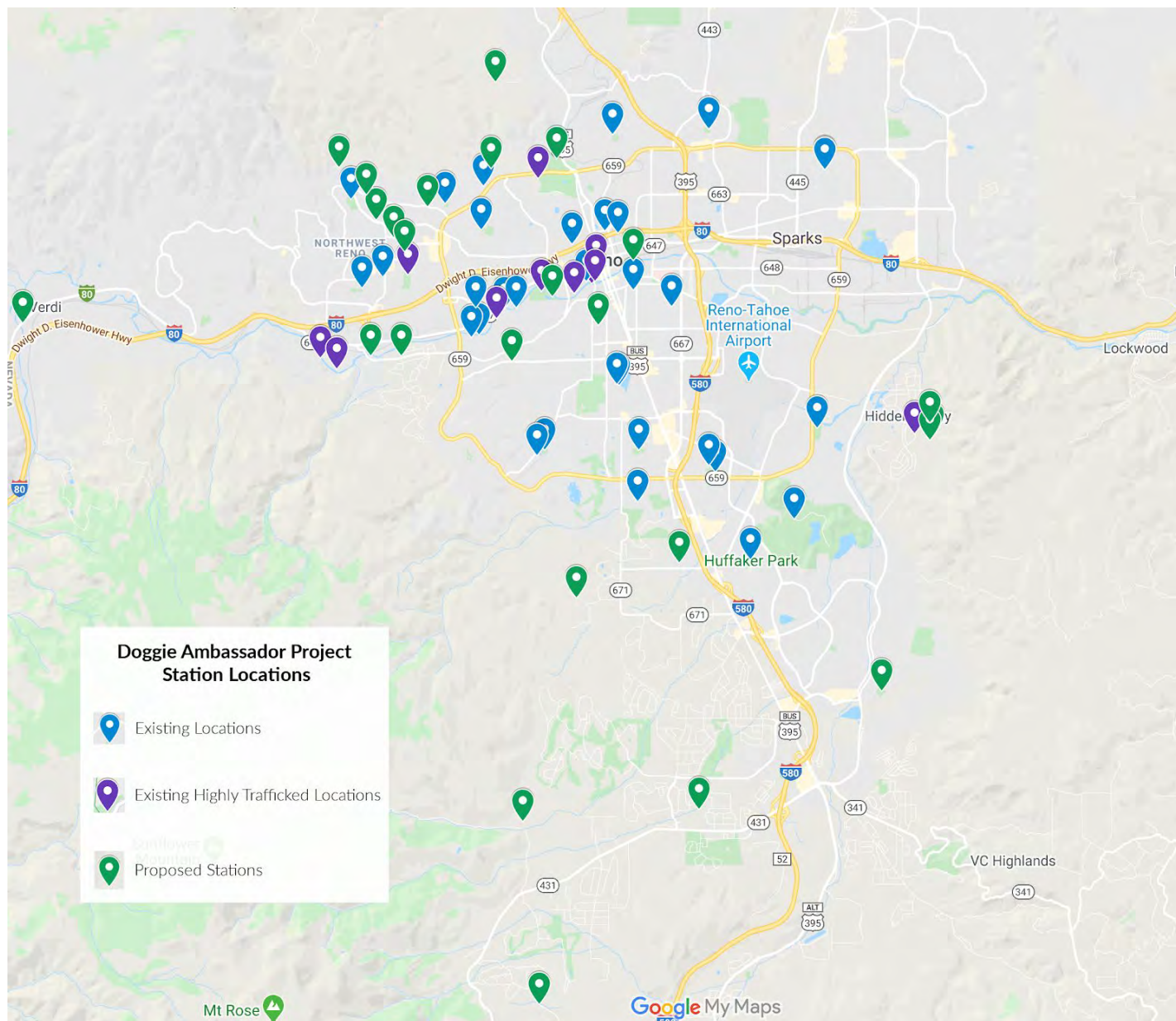
##### Governmental entities submit:

- ☐ Departmental budget in lieu of audited financial statements



# TRUCKEE MEADOWS PARKS FOUNDATION

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Existing Locations: Bicentennial Park, Biggest Little Dog Park, Canyon Creek Park, Church Park, Crissie Caughlin Park, Crooked Mile, Evans Park, Hilltop Park, Horsemen's Park, Huffaker Park, Huffaker Hills Trailhead, Idlewild Park, Idlewild and Riviera Dr., Ivan Sack Park, Jamaica Park, Link Piazza Dog Park, Manzanita Park, Mary Gojack Park, Mayberry Park, Melody Lane Park, Miguel Ribera Park, Mira Loma Park, Northgate Park, Northwest Park, Rancho San Rafael Off Leash Dog Area, Rainbow Ridge Park, Riverside Drive, Schiappacasse River Pathway, Sky Country Park, Sparks Parks & Recreation Complex, Stewart Park, Summit Ridge Park, Terrace Sports Complex, Tom Cooke Trail, University Ridge Park, Virginia Lake Park, Virginia Lake Dog Park, Wheatland Park, Whitaker Park, Wilkinson Park, Wingfield Park, and 8th Street Park.

Existing Highly Trafficked Locations: Biggest Little Dog Park, Link Piazza Dog Park, Rancho San Rafael Off-Leash Dog Area, Barbara Bennett Park, Idlewild Park, Ivan Sack Park, Rainbow Ridge, Riverside Drive, Wingfield Park, Tom Cooke Trail, and Mayberry Park.

Proposed Station Locations: Crystal Peak Park, Peavine Peak Trailhead, Plumas Street Gym, East and West Keystone Canyon, Broadhead Park, Damonte Ranch Park, Chalk Bluff Trail, Reno Sports/Softball Complex, Doroshtar Park, Crystal Lake Park, Rivermont Park, Whites Creek Trailhead, Thomas Creek Trailhead, Browns Creek Trailhead, Hidden Valley Regional Park, Las Brisas Park, and Ballardini Ranch Trail.



# TRUCKEE MEADOWS PARKS FOUNDATION

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AWARENESS • APPRECIATION • STEWARDSHIP

## Citations

Ervin, J. S., Van De Werfhorst, L. C., Murray, J. L., & Holden, P. A. (2014). Microbial Source Tracking in a Coastal California Watershed Reveals Canines as Controllable Sources of Fecal Contamination. *Environmental Science & Technology*, 48(16), 9043-9052.

US EPA (2012, October). Summaries of Water Pollution Reporting Categories. Retrieved from <https://www.epa.gov/sites/production/files/2015-08/documents/34parentattainsdescriptions.pdf>

US EPA (2017, May 2). What is Nonpoint Source? Retrieved from <https://www.epa.gov/nps/what-nonpoint-source>

Washoe County Code 55. 130 (2012 April) <https://www.washoecounty.us/clerks/cco/code/Chapter055.pdf>

Watson, Traci (2002, June 6). Dog waste poses threat to water. *USA Today*.  
<https://usatoday30.usatoday.com/news/science/2002-06-07-dog-usat.htm>



## PROPOSAL TO THE TRUCKEE RIVER FUND

<b>Organization Name:</b>	Keep Truckee Meadows Beautiful																														
<b>Type:</b>	501(c)(3) EIN# 88-0254957	Governmental entity? No																													
<b>Address:</b>	P.O Box 7412 Reno, NV 89510																														
<b>Project Name:</b>	2021 Spring Great Community Cleanup, 2021 Fall Truckee River Cleanup, Adopt-A-River & Adult Outreach and Education																														
<b>Amount requested: \$74,245</b>	<b>Website:</b> www.ktmb.org																														
<b>This funding will be used to</b>	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 2021.																														
<b>Key People:</b>	<table border="1"> <tr> <td><b>Director:</b></td> <td colspan="3">Christi Cakiroglu</td> </tr> <tr> <td><b>Board Chair:</b></td> <td colspan="3">Johnny Hargrove</td> </tr> <tr> <td><b>Project Contact:</b></td> <td><b>Name:</b></td> <td colspan="2">Lindsey Panton</td> </tr> <tr> <td></td> <td><b>Position:</b></td> <td colspan="2">Program Director</td> </tr> <tr> <td></td> <td><b>Phone:</b></td> <td colspan="2">775-851-5185</td> </tr> <tr> <td></td> <td><b>Fax:</b></td> <td colspan="2">N/A</td> </tr> <tr> <td></td> <td><b>Email:</b></td> <td colspan="2">lindsey@ktmb.org</td> </tr> </table>			<b>Director:</b>	Christi Cakiroglu			<b>Board Chair:</b>	Johnny Hargrove			<b>Project Contact:</b>	<b>Name:</b>	Lindsey Panton			<b>Position:</b>	Program Director			<b>Phone:</b>	775-851-5185			<b>Fax:</b>	N/A			<b>Email:</b>	lindsey@ktmb.org	
<b>Director:</b>	Christi Cakiroglu																														
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	<b>Phone:</b>	775-851-5185																													
	<b>Fax:</b>	N/A																													
	<b>Email:</b>	lindsey@ktmb.org																													
<b>Organization Mission:</b>	KTMB is dedicated to creating a more sustainable and beautiful region through waste reduction, education and active community involvement.																														
<b>Has your organization received other grants from the Truckee River Fund?</b>																															
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 2021, 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 2021

- 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; picnic and zero waste efforts will be conducted in line with what is possible given current public health and safety guidelines in place at the time;
- 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 2021 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 2021 Great Community Cleanup;

#### Truckee River Cleanup – Fall 2021

- Engage minimum of 600 volunteers in river cleanup, storm drain stenciling and weed removal;
- Remove 15- 20 tons of trash, green waste and invasive weeds from the river corridor and adjacent watershed 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; picnic and zero waste efforts will be conducted in line with what is possible given current public health and safety guidelines in place at the time;
- 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 approximately 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 2021

- 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 2021

- If conditions allow, KTMB plans to host "River Walks" to bring people to the river corridor for an educational opportunity. This activity is in cooperation with the 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 a minimum 700 community members through our adult informative talks covering waste, weeds and the watershed to businesses, organizations, community groups, etc.
- 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;
- KTMB will promote messaging in line with this educational information through digital outreach mediums as well.





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 2021 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 officials, neighborhood and community groups, churches, recreation/outdoor groups, city council and county commission meetings, service organizations, business partners, 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 2021 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 officials, neighborhood and community groups, churches, recreation/outdoor groups, city council and county commission meetings, service organizations, business partners, 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.
- If conditions allow, KTMB plans to host "River Walks" 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.
- 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.

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.

KTMB's 2021 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.c; 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. All gatherings for cleanup and volunteer appreciation will be held in conjunction with current WCHD health and safety recommendations.
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 2021.*

**GCC 2021 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 2021 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.

## 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 2021;
- 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 2021 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 2021 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 a minimum of 700 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, SWCA, Down to Earth Composting and RT Donovan.

## 14. Grant match

<b>Match amount to be provided:</b>		<b>\$299,319</b>
<b>Match details:</b>	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.	
	Cash:	<b>\$144,805</b> (Combination of secured funds and pending and planned requests)
	In-kind:	<b>\$154,514</b>
For the cash portion of your match, is the funding already being held by the applicant for this project? No <u>X</u>		
<b>Description of matching</b>	<ul style="list-style-type: none"> <li>• Project Partners and in-kind support will provide a minimum of \$48,514 in staff time</li> <li>• 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.</li> <li>• Approximately \$144,805 in cash support is either secured or being requested from other funding sources.</li> </ul>	

## Truckee River Fund Project Budget

2021 Spring Great Community Cleanup, Fall Truckee River Cleanup, Adopt A River Program &amp; Adult and Community Outreach and Education

Category	Justification	TRF Request	Cash & In-kind Match	Total Cost
<b>Great Community Cleanup 2021</b>				
<b>COORDINATION &amp; IMPLEMENTATION</b>				
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
<b>EQUIPMENT &amp; SUPPLIES</b>				
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
<b>VOLUNTEER COORDINATION</b>				
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
<b>TOTAL GCC 2021 Request</b>		<b>\$28,550.00</b>	<b>\$125,457.00</b>	<b>\$154,007.00</b>
<b>Truckee River Cleanup 2021</b>				
<b>COORDINATION &amp; IMPLEMENTATION</b>				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$12,000.00	\$10,000.00	\$22,000.00
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 4 hours x \$20/hour	\$0.00	\$42,000.00	\$42,000.00
Sub-Total		\$12,250.00	\$72,900.00	\$85,150.00
<b>EQUIPMENT &amp; SUPPLIES</b>				

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
<b>VOLUNTEER COORDINATION</b>				
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 2021 Request		\$28,300.00	\$93,207.00	\$121,507.00
<i>Adult Education and Community Outreach</i>				
<b>COORDINATION &amp; IMPLEMENTATION</b>				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$5,000.00	\$47,000.00	\$52,000.00
Sub-Total		\$5,000.00	\$47,000.00	\$52,000.00
<b>STEWARDSHIP &amp; ENVIRONMENTAL AWARENESS</b>				
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		\$7,545.00	\$51,405.00	\$58,950.00
<i>Adopt-A-River</i>				
<b>COORDINATION &amp; IMPLEMENTATION</b>				
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		\$74,245.00	\$299,319.00	\$373,564.00

# KTMB Funding received from the Truckee River Fund

Date Awarded	August 2019
Project title:	TRF #224 KTMB Cleanup and Weed Removal 2020
Amount of Award:	\$79,245
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

KTMB Funding received from the Truckee River Fund

Date awarded:	July 2006
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$13,175
Date awarded:	December 2005
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$9,402.50

**Keep Truckee Meadows Beautiful: 2021 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.

**Cover Sheet**

**Date: 7/31/2020**

<b>Organization Name:</b>	Washoe County Regional Parks and Open Space		
<b>Type:</b>	Local Government - County	Governmental entity? Yes	
<b>Address:</b>	1001 E. 9 <sup>th</sup> St. Reno, NV 89512		
<b>Project Name:</b>	Truckee River Parks and Open Space Weed Management and Revegetation		
<b>Amount requested: \$45,000</b>		<b>Website: <a href="https://www.washoecounty.us/parks/">https://www.washoecounty.us/parks/</a></b>	
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>		<b>This funding will be used to remove noxious weeds and re-establish native vegetation in Washoe County Parks and Open Space areas along the Truckee River and its tributaries. The project includes weed inventory, GIS mapping, chemical and mechanical treatments, re-vegetation, and monitoring.</b>	
<b>Key People:</b>	<b>Director:</b>	David Solaro, Assistant County Manager/Director of Community Services Department	
	<b>BoardChair:</b>		
	<b>Project Contact:</b>	<b>Name:</b>	Joanne Lowden
		<b>Position:</b>	Natural Resource Planner
		<b>Phone:</b>	(775) 328-2039
		<b>Fax:</b>	(775) 328-3699
<b>Email:</b>		JLOWDEN@WASHOECOUNTY.US	
<b>Organization Mission:</b>	Our mission is to provide exceptional parks, open space and recreational opportunities while preserving our natural, historical and cultural resources.		
<b>Has your organization received other grants from the Truckee River Fund?</b> Yes X No	<b>Date awarded:</b>	3/26/2019	
	<b>Project title:</b>	TRF #220: Washoe County Parks and Open Space Weed Treatment and Revegetation Project along the Truckee River	
	<b>Amount of Award:</b>	\$45,000	
	<b>Date awarded:</b>		
	<b>Project title:</b>		
	<b>Amount of Award:</b>		
	<b>Amount of Award:</b>		
	<b>Amount of Award:</b>		



## DESCRIPTION OF PROJECT UNDER CONSIDERATION

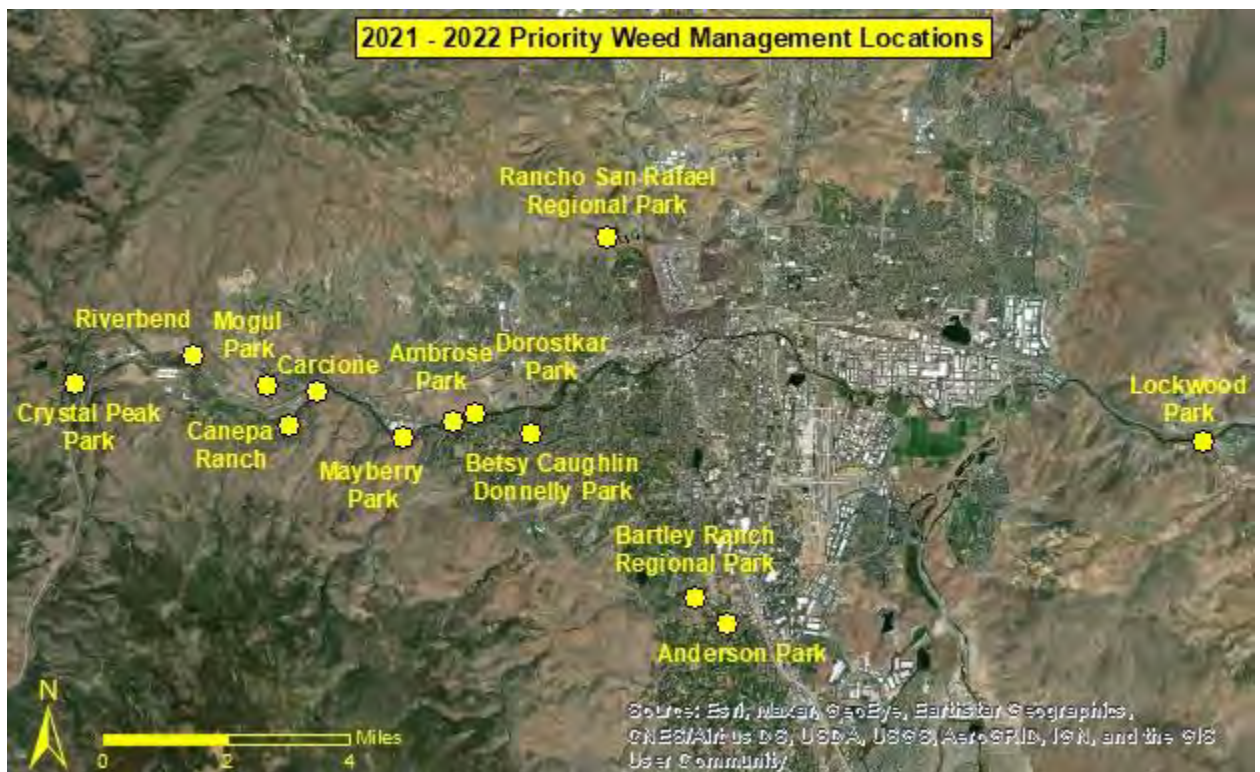
- ☒ A. Projects that improve bank or channel stabilization and decrease erosion.
- ☐ B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- ☐ C. Projects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

## PROJECT NARRATIVE

- 1. Project Goals and Measurable Outcomes and How You Will Measure and Report Them** Project goals include identifying, mapping, and treating noxious weeds in Washoe County Parks and Open Spaces along the Truckee River corridor. Inventories would be conducted to determine the location and size of weed infestations. Pre-treatment maps would be generated showing the number of acres inventoried and the number of acres needing treatment. Success of weed treatments would be evaluated by visually estimating the amount of dead weed vegetation or eliminated weeds in the treatment areas compared to pre-treatment levels (expressed as a percentage). In addition to weed treatments, project goals include re-establishment of native vegetation through seeding and planting of container stock. Success of seeding and planting efforts would be monitored over subsequent years. Results would be measured by the total number of acres inventoried, treated, seeded, and planted. Results would also include the estimated success rate of weed treatments.
- 2. Project Location** The project would be located in several Washoe County Park and Open Space areas along the Truckee River and its tributaries. Priority treatment areas identified for 2021-2022 include Crystal Peak Park (Verdi, NV), Riverbend Open Space (Verdi, NV), Mogul Park (Reno, NV), Canepa Ranch Open Space (Reno, NV), Carcione Open Space (Reno, V), Mayberry Park (Reno, NV), Ambrose Park (Reno, NV), Dorostkar Park (Reno, NV), Betsy Caughlin Donnelly Park (Reno, NV), Bartley Ranch Regional Park (Reno, NV), Anderson Park (Reno, NV), Rancho San Rafael Regional Park (Reno, NV), and Lockwood Park (Sparks, NV).
- 3. Project Description** This project would remove noxious and invasive weeds and re-establish native vegetation in Washoe County Park and Open Space areas along the Truckee River corridor. Project implementation would include weed inventory, GIS mapping and reporting, chemical and mechanical treatments, re-vegetation, and monitoring. A combination of Washoe County staff time, contracts, and volunteer efforts would be used to implement the project. An Integrated Vegetation Management (IVM) Plan was developed for Washoe County Parks in June 2020. Treatments would follow the guidance and recommendations in the IVM Plan to establish stable perennial plant communities which will help to improve fish and wildlife habitat, enhance recreational opportunities, improve water quality through soil stabilization, reduce fire hazard, and increase the visual quality of parks along the Truckee River.

Priority treatment areas include Crystal Peak Park, Riverbend Open Space, Mogul Park, Canepa Ranch Open Space, Carcione Open Space, Mayberry Park, Dorostkar Park, Ambrose Park, Betsy Caughlin Donnelly Park, Bartley Ranch Regional Park, Anderson Park, Rancho San Rafael Regional Park, and Lockwood Park. A majority of these parks were inventoried and treated at least once in 2019-2020 and weed treatments would continue over the next few years based on 2019 inventory results. Riverbend Open Space, Mogul Park, Canepa Ranch Open Space, Carcione Open Space, and Ambrose Park would be inventoried for the first time in 2021. Pre-treatment maps would be generated showing the number of acres inventoried and the number of acres needing treatment. A variety of treatments may be used including mowing, hand pulling, and herbicide application. Target weed species include, but are not limited to, hoary cress (*Cardaria draba*), musk thistle (*Carduus nutas*), spotted knapweed (*Centaurea stoebe*), Russian knapweed (*Acroptilon repens*), yellow starthistle (*Centaurea solstitialis*), Canada thistle (*Cirsium arvense*), poison hemlock (*Conium maculatum*), perennial pepperweed (*Lepidium latifolium*), purple loosestrife (*Lythrum salicaria*), scotch thistle (*Onopordum acanthium*), teasel (*Dispacus spp.*), and medusahead (*Taeniatherum caput-medusae*).

Re-vegetation efforts may include seeding and planting of native and adapted vegetation and be focused on areas with larger weed infestations and areas with previous disturbances. Rancho San Rafael Regional Park and Dorostkar Park are priority restoration areas for 2021-2022. Monitoring of re-vegetation sites would occur for several years post-treatment to determine if the plantings are successful.



- 4. Grant Priorities** The proposed project advances Truckee River Fund grant priorities II, IV, VII, and VIII. Managing noxious weeds and re-establishing native vegetation along the Truckee River corridor helps to improve water quality by stabilizing soils and reducing erosion potential and sedimentation as identified in Priority II. The proposed project advances Priority IV through re-vegetation of upland areas which will help to improve watershed resiliency and establish stable perennial plant communities within previously disturbed areas. The project meets multiple objectives as identified in Priority VII. Priority VIII is advanced through Washoe County's partnership with multiple stakeholders including the Nevada Land Trust, One Truckee River Partnership, Keep Truckee Meadows Beautiful, Nevada Department of Wildlife, Nevada Department of Agriculture, and Nevada Division of Forestry to identify restoration needs and leverage funding sources for projects in the Truckee River Corridor.
- 5. Permitting** Permits are not required for the proposed project.
- 6. Future Land Use** No known or reasonably foreseeable zoning, land use, or development plans would affect the proposed project.
- 7. Future Phases** Monitoring and treating noxious weeds in Washoe County Parks and Open Spaces is an ongoing effort that will continue into future years. Washoe County will continue working with the Washoe Storey Cooperative Weed Management Area group and partners such as the Nevada Land Trust, Keep Truckee Meadows Beautiful, Nevada Department of Wildlife, Nevada Department of Agriculture, and Nevada Division of Forestry to identify and leverage funding sources as they become available.
- 8. Principals Involved** Joanne Lowden, Natural Resource Planner for Washoe County Parks and Open Space, will be the project manager. Joanne is a member of the Washoe Storey Cooperative Weed Management Area group and the One Truckee River Partnership. She is currently a certified government applicator for restricted use pesticides for both terrestrial and aquatic weeds.
- 9. Staff Positions Involved** At least 7 Washoe County staff positions will be involved part-time with the project including the Natural Resource Planner (Project Manager), Park Planner, 4 Park Rangers, and the Volunteer Coordinator.
- 10. Volunteers Involved** Volunteer events will be coordinated internally through the Washoe County Parks Volunteer Coordinator and with other partners such as Keep Truckee Meadows Beautiful and the Nevada Land Trust. Volunteer events will occur throughout each year and include weed removal and seeding/planting with an estimated volunteer contribution of 350 hours.
- 11. Time Line** Weed treatments would occur between April 2021 and June 2022. Re-vegetation including seeding and planting would be targeted for fall of 2021, but planting of container stock may also occur in the spring of 2021 and 2022 as needed. Remaining weed inventories would be completed in 2021. A final report would be submitted once the project is completed no later than July 31, 2022.

**12. Success** The number of acres inventoried, treated, and re-vegetated would indicate the overall success of the project.

**13. Collaboration** Washoe County Parks works with many local businesses and groups to provide volunteer opportunities including weed removal and re-vegetation. Washoe County Parks also partners with Keep Truckee Meadows Beautiful and the Nevada Land Trust to host joint volunteer events. Washoe County Parks collaborates with the Nevada Department of Agriculture, Nevada Division of Forestry and others through the Washoe-Storey Cooperative Weed Management Area group to coordinate funding and weed management activities in the local area.

#### 14. Grant Match

<b>Match amount to be provided:</b>	<b>\$15,000</b>					
<b>Match details:</b>	<p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1" data-bbox="456 961 1422 1184"> <tr> <td>Cash</td> <td><b>\$8,000</b></td> </tr> <tr> <td>In-kind</td> <td><b>\$7,000</b></td> </tr> </table> <p>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.</p> <p>For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <u>X</u> No <u>  </u></p>		Cash	<b>\$8,000</b>	In-kind	<b>\$7,000</b>
Cash	<b>\$8,000</b>					
In-kind	<b>\$7,000</b>					
<b>Description of matching funds/in-kind donations:</b>	<p><b><u>Cash Contributions:</u></b></p> <p><b>\$8,000</b> Washoe County paid staff labor includes parks staff time for project management and planning, weed inventory, GIS mapping and reporting, weed and re-vegetation treatments, and coordinating volunteer events.</p> <p><b><u>In-Kind:</u></b></p> <p><b>\$7,000</b> Volunteer labor (350 hrs. @ \$20/hr.) for volunteer seeding and planting events, and noxious weed removal.</p>					

**15. Project budget**

<b>Budget Item Description</b>	<b>TRF \$</b>	<b>Other Funding Name</b>	<b>Match \$</b>	<b>Total</b>
Parks Staff Labor – paid	\$0	Washoe County	\$8,000	\$8,000
Volunteer Labor (350 hrs. - \$20/hr.)	\$0	Washoe County	\$7,000	\$7,000
Material (seed, plants, terra-sorb, equipment)	\$5,000		\$0	\$5,000
Contract – Labor and materials	\$40,000		\$0	\$40,000
<b>TOTAL</b>	<b>\$45,000</b>		<b>\$15,000</b>	<b>\$60,000</b>

**Coldstream Canyon and Bear Creek Restoration Projects**

<b>Organization Name:</b>	<b>Truckee River Watershed Council (TRWC)</b>																				
<b>Type: Non-Profit</b>	<b>501(c)(3)</b> EIN# 91-1818748	<b>Governmental entity?</b> No																			
<b>Address:</b>	P.O. Box 8568, Truckee, CA 96162																				
<b>Project Name:</b>	Restoration: Coldstream Canyon and Bear Creek																				
<b>Amount requested:</b> \$136,500	<b>Website:</b> www.truckeeriverwc.org																				
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>	Fill critical funding gaps in two restoration projects: the Coldstream Canyon Sediment Reduction Project and the Bear Creek Lower Meadow Restoration Project. Both projects will support the Truckee River TMDL by reducing excess sedimentation and improving hydrologic connectivity and watershed functionality.																				
<b>Key People:</b>	<b>Director:</b>	Lisa Wallace																			
	<b>Board Chair:</b>	Jake Hudson																			
	<b>Project Contact:</b>	<b>Name:</b>	Eben Swain																		
		<b>Position:</b>	Program Manager																		
		<b>Phone:</b>	530-550-8760, 7#																		
		<b>Fax:</b>	NA																		
		<b>Email:</b>	eswain@truckeeriverwc.org																		
<b>Organization Mission:</b>	We bring the community together for the Truckee to restore, protect, and enhance the Truckee River watershed.																				
<b>Has your organization received other grants from the Truckee River Fund?</b> Yes X No (use additional page if necessary)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>October, 2019</td> </tr> <tr> <td>Project title:</td> <td>Truckee River Invasive Species Control Project</td> </tr> <tr> <td>Amount</td> <td>\$19,250</td> </tr> <tr> <td>Date awarded:</td> <td>March, 2019</td> </tr> <tr> <td>Project title:</td> <td>McIver Dairy Meadow Restoration Project</td> </tr> <tr> <td>Amount:</td> <td>\$161,000</td> </tr> <tr> <td>Date awarded:</td> <td>March 2018</td> </tr> <tr> <td>Project title:</td> <td>Truckee Meadows Restoration Project – Phase 2 Construction</td> </tr> <tr> <td>Amount:</td> <td>\$30,000</td> </tr> </table> Please see Attachment A for a full list of awarded grants			Date awarded:	October, 2019	Project title:	Truckee River Invasive Species Control Project	Amount	\$19,250	Date awarded:	March, 2019	Project title:	McIver Dairy Meadow Restoration Project	Amount:	\$161,000	Date awarded:	March 2018	Project title:	Truckee Meadows Restoration Project – Phase 2 Construction	Amount:	\$30,000
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Amount:	\$161,000																				
Date awarded:	March 2018																				
Project title:	Truckee Meadows Restoration Project – Phase 2 Construction																				
Amount:	\$30,000																				

**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.<sup>1</sup>
- ☐ E. Other projects that meet the evaluation criteria.



**Coldstream Canyon and Bear Creek Restoration Projects**

1. **Specific project goals and measurable outcomes and how you will measure and report them.** The overall goal is to reduce erosion and excess sedimentation to the main stem Truckee River by 1)restoring impaired meadow/wetland systems on key tributaries to the Truckee River, and 2)correcting drainage on improperly constructed roadways on the same key tributaries.

To that end, the funding request is to close critical funding gaps on implementation of two projects scheduled for Fall 2020: the Coldstream Canyon Sediment Reduction Project and the Bear Creek Lower Meadow Restoration Project.

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

The specific goal of the **Coldstream Canyon Sediment Reduction Project** is to improve water quality and riparian habitat by restoring actively eroding road networks that are contributing excess sediment to the Truckee River. In addition, we have the opportunity to restore degraded wetland habitat that will support greater retention of ground and surface waters longer in the season, while also acting as a filter to decrease sediment transfer. The measurable outcomes of this project include:

- 3.5 miles of dirt roads treated (grading, water bars, rolling dips, etc)
- 1.0 mile of dirt roads decommissioned
- 5.0 acres restoration of degraded wetland habitat
- 45 tons of sediment per year eliminated

The specific goal of the **Bear Creek Lower Meadow Restoration Project** is to improve water quality by restoring montane meadow and stream habitats. In addition, we have the opportunity to increase floodplain connectivity, improve meadow hydrology and habitat, elevate the groundwater table to prolong flows, and increase carbon sequestration and resiliency to climate change and drought.

The measurable outcomes of this project include:

- 30 acres of restoration of montane meadow
- 3,000 feet of restoration within Bear Creek
- 20 tons of sediment reduction per year eliminated

For both sites, project success will be measured by pre and post-project monitoring programs for sediment reduction, increases in groundwater levels, stream flow shifts, and increased vegetation.

2. **Project location.** Please see attached location maps.
3. **Project description.** This funding request includes two restoration projects: the **Coldstream Canyon Restoration Project** and the **Bear Creek Restoration Project**. The projects share a common goal of reducing excess sedimentation to the Truckee River, and improving habitat conditions in key sub-watersheds.

The **Coldstream Canyon Restoration Project** is a partnership between TRWC and California Department of Parks & Recreation (CDPR). The project will restore significant dirt road networks on CDPR properties to reduce transfer of sediment and will create/restore 5.0 acres of wetland habitat.

**Coldstream Canyon and Bear Creek Restoration Projects**

Funding from the Truckee River Fund will close a critical funding gap in the amount of \$86,500 needed to implement the project.

In 2007, TRWC conducted the Coldstream Canyon Watershed Assessment (CCWA - TRWC 2007). The CCWA defines opportunities to reduce fine sediment transfer and improve habitat conditions in Coldstream Canyon. The full assessment document is available for review [HERE](#). In 2008, The Truckee River TMDL identified Coldstream Canyon as the second largest contributor of sediment loading in the Middle Truckee Watershed.

This project will implement restoration actions in areas identified as heavy sediment contributors to the Truckee River. Restoration actions for this project will treat 3.5 miles of dirt road and associated stream crossings, and will decommission 1.0 mile of existing dirt roadway. In addition, 5 acres of degraded wetland habitat will be restored, helping to enhance vegetation and filter sediments prior to reaching downstream waterbodies. These activities will result in an estimated sediment reduction of 45 tons per year and will improve watershed and ecosystem functionality.

Specific work components for the Coldstream Project will include:

- Installation of rolling dips to reduce road capture and restore hydrologic connectivity
- Regrading roadways where rilling and/or gullying is present to reduce erosion
- Ripping and tilling the soil to improve infiltration and seeding/mulching the newly decommissioned roadways to prevent erosion
- Restoration of 5 acres of degraded wetland to establish wetland vegetation characteristics and help to filter fine sediments

The **Bear Creek Project** is a partnership between TRWC and the U.S. Forest Service – Tahoe National Forest (USFS). The project will restore 30 acres of degraded montane meadow and 3,000 feet of incised channel and eroding stream banks. This proposal will close a critical funding gap of \$50,000 for project implementation.

The project is identified as a high priority by the Truckee River Tributaries Sediment Reduction Assessment (2016) and the Bear Creek Watershed Assessment (2018). The Bear Creek Watershed Assessment documented widespread degradation of the creek and its tributaries resulting from the past 150 years of inappropriate land use. These impacts transformed a multi-threaded wet-meadow system into an impaired, single-channel dry meadow. Today, the creek is incised and actively eroding, and meadow functions and habitats continue to degrade, affecting water quality in Bear Creek and the mainstem of the Truckee River.

The project is designed to encourage the spread of flows and channel aggradation, provide bank stability, and re-establish multiple secondary flow paths across the meadow surface. Augmenting instream wood and cobble in the channel and riffle structures and re-engaging existing secondary channels will restore channel and meadow function, enhance meadow hydrology and habitat, and reduce sources of instream sediment.

Specific work components for the Bear Creek Project include:

- Install bank log structures to stabilize eroding banks and dissipate energy from flows
- Augment existing riffles to increase bed and water surface elevation, thus connecting to the floodplain, spreading and slowing flows, and encouraging sediment to drop out

**Coldstream Canyon and Bear Creek Restoration Projects**

- Activate remnant channels to further water the meadow and decrease flow velocity towards currently eroding stream banks
- Revegetate with salvaged material, container plants and a native seed mix.

**4. Grant priorities.** The projects address:

- **Watershed Improvements:** The projects will decrease sedimentation and support attainment of the TMDL for Truckee River. Restoration will enhance watershed function and habitat by reducing erosion, restoring sensitive ecosystems and by decommissioning and restoring dirt roads.
- **Local Stormwater Improvements:** Extensive road networks within Coldstream Canyon have led to an increase in stormwater and associated pollutants entering the Truckee River. The project will increase hydrologic connectivity and on-site infiltration. Both the Coldstream Canyon and the Bear Creek projects will significantly enhance floodplain connectivity that will reduce impacts of excessive erosion to the Truckee River.
- **Meet Multiple Objectives:** The projects meets the objectives listed above. They also benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.
- **Leverage Stakeholder Assets and Participation:** Both projects leverage significant stakeholder participation and cost share from USFS and CDPR. Additional stakeholder input and prioritization is documented in the Coldstream Canyon (TRWC 2007) and the Bear Creek Watershed Assessment as well as in the Truckee River TMDL (LRWQCB, 2008).

**5. Permitting.** TRWC and CDPR have completed CEQA, and all other required environmental permits are secured for the **Coldstream Canyon** project, including 401/NPDS, CDFW 1600 LSA and USACE authorization.

TRWC and USFS completed NEPA, CEQA, FEMA CLOMR, Placer County Grading and Encroachment, Section 404, NPDES and CDFW 1600 for the **Bear Creek Project**.

**6. Future Land Uses.** There are no foreseeable zoning, land use, or development plans that will affect the projects or project sites. All landowners are project partners and have committed to the projects.**7. Future phases.** TRWC and CDPR will continue to pursue funding opportunities to achieve sediment reduction and habitat improvements in **Coldstream Canyon**. Future phases may include additional road work and/or stream restoration. Likewise, TRWC and various partners will continue to pursue funding for improvements in the **Bear Creek** Basin. Future work for both areas is identified in the watershed assessments listed above.**8. Principals involved.** Eben Swain, TRWC Program Manager, will lead the **Coldstream Canyon Project**. Michele Prestowitz, TRWC Program Manager, will lead the **Bear Creek Project**. They will handle grant administration jointly.**9. Number of staff positions involved in project:** (Part-time) Eben Swain, Michele Prestowitz, and Lisa Wallace (TRWC) will dedicate a portion of their time to these projects, with additional support from CDPR and USFS.

**Coldstream Canyon and Bear Creek Restoration Projects**

- 10. Number of volunteers involved in project and an estimated number of volunteer hours.** Volunteers will assist with revegetation of the stream channels and decommissioned roads including re-seeding and mulching. 10 volunteers will contribute a total of 45 hours.

**11. Time Line.**

Task	Start Date	Completion Date
Coldstream Canyon Restoration	August 2020	October 2021
Bear Creek Restoration	August 2020	October 2021
Project Management and Reporting (both projects)	August 2020	October 2021

- 12. Success.** Project success for both the **Coldstream Canyon** and **Bear Creek Projects** will be confirmed by the post-project monitoring for hydrologic (groundwater and stream flow), vegetation, biological, and geomorphic parameters.

- 13. Collaboration.** TRWC is partnering with CDPR for the Coldstream Canyon Project and USFS for the Bear Creek Project.

**14. Grant match.**

<b>Match amount to be provided:</b>		<b>\$34,125</b>	
<b>Match details:</b>	<b>Match is:</b>	Cash	\$34,125
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes		
<b>Description of matching funds/in-kind donations:</b>	<p>Matching funds for \$21,625 for the Coldstream Project are from the California State Water Resources Control Board. The grant funds personnel and operating expenses as well as treatment/restoration of dirt roads and wetland habitat.</p> <p>Matching funds for \$12,500 for the Bear Creek Project are from California Department of Fish and Wildlife Proposition 1 Watershed Restoration Grant Program. The grant funds personnel services, operating expenses, and restoration in the stream and meadow.</p> <p>TRWC will manage all funds provided by the Water Board, Department of Fish and Wildlife, and the Truckee River Fund to ensure maximum project efficiency and cost effectiveness.</p>		

**ATTACHMENTS**

- A. Extended list of past TRWC projects funded by the Truckee River Fund.
- B. Coldstream Canyon Sediment Reduction Project Location Map
- C. Bear Creek Lower Meadow Restoration Project Vicinity Map

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

**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

**Coldstream Canyon and Bear Creek Restoration Projects**

**15. PROJECT BUDGET**

ITEM	TRF \$	OTHER FUNDING NAME	MATCH \$	TOTAL
<b>Coldstream Canyon Sediment Reduction</b>				
Project Management – Direct and Indirect*	\$0	California State Water Resources Control Board	\$10,530	\$10,530
Project Supplies (Native seed, plantings, topsoil)*	\$0	California State Water Resources Control Board	\$11,095	\$11,095
Construction**	\$86,500		\$0	\$86,500
<b>Bear Creek Lower Meadow Restoration</b>				
Project Management – Direct and Indirect*	\$0	California Dept. of Fish & Wildlife	\$6,635	\$6,635
Monitoring*	\$0	California Dept. of Fish & Wildlife	\$5,865	\$5,865
Construction***	\$50,000		\$0	\$50,000
<b>Total</b>	<b>\$136,500</b>		<b>\$34,125</b>	<b>\$170,625</b>

\*Project Management, Project Supplies and Monitoring

- 100% of project management, project supplies and project monitoring costs are funded by the matching grant sources

\*\*Coldstream Canyon Sediment Reduction

- If awarded, all funds from TRF will go to construction of the project.
- We received several bids for constructing the project. All qualified bids had higher costs than our construction estimate mainly due to increased costs with construction equipment.
- If we do not receive funding from the Truckee River Fund, we will decrease the scope of the project by doing less restoration of the wetlands, and less maintenance of improperly constructed dirt roadways, thus decreasing the amount of sediment reduction to the Truckee River.

\*\*\*Bear Creek Lower Meadow

- If awarded, all funds from TRF will go to construction of the project.
- We received several bids for constructing the project. All qualified bids had higher costs than our construction estimate mainly due to increased costs for stream dewatering equipment and fill.
- If we do not receive funding from the Truckee River Fund, we will decrease the scope of the project by doing less meadow restoration and less streambank stabilization, thus decreasing the amount of sediment reduction to the Truckee River.

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**

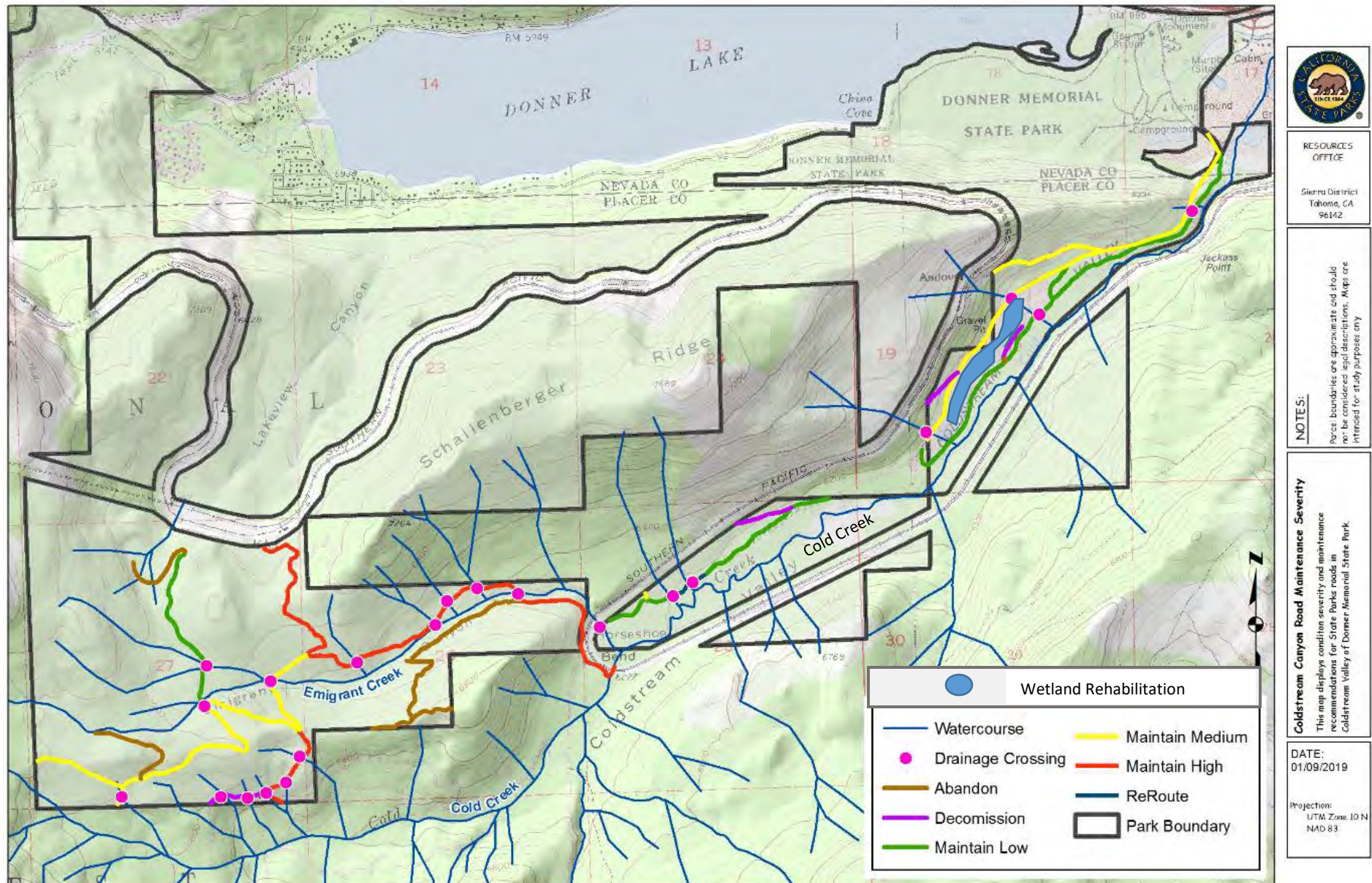
Date awarded:	October 2018
Project title:	Truckee River Water Quality Monitoring Program
Amount of Award	\$25,000
Date awarded:	October 2018
Project title:	Restoration Projects: Donner Creek and Dry Creek Meadow
Amount of Award	\$92,000
Date awarded:	October 2017
Project title:	Truckee River Tributaries 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

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

Date awarded:	March 2013
Project title:	Middle Martis Wetland Restoration – planning and design
Amount of Award:	\$120,000
Date awarded:	August 2012
Project title:	Phase 2 Coldstream Canyon Floodplain Restoration
Amount of Award:	\$196,000
Date awarded:	March 2012
Project title:	Lacey Creek and Meadow Assessment
Amount of Award:	\$50,000
Date awarded:	March 2012
Project title:	Negro Canyon Restoration – pre-project monitoring
Amount of Award:	\$25,000
Date awarded:	October 2010
Project title:	Coldstream Canyon Floodplain Restoration Project
Amount of Award:	\$135,000
Date awarded:	August 2010
Project title:	Truckee Wetlands Restoration Project – Phase 2
Amount of Award:	\$40,000
Date awarded:	July 2006
Project title:	“This Drains to the Truckee River” Storm Drain Stenciling Pilot Project
Amount of Award:	\$9,300

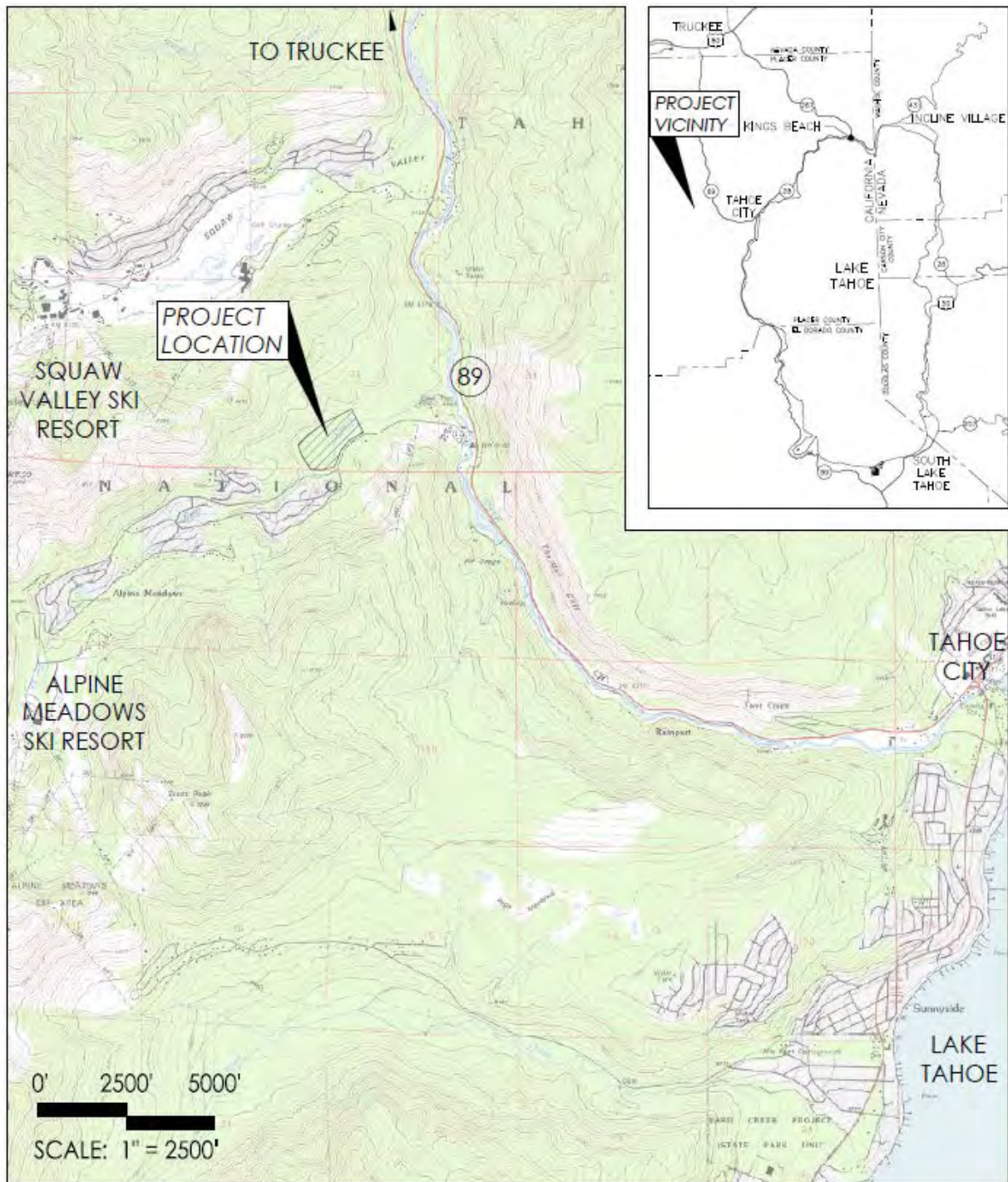


# Project Location: Coldstream Canyon Sediment Reduction





Project Location: Bear Creek Lower Meadow Restoration Project





**Cover Sheet**

**Date:** 7/30/2020

<b>Organization Name:</b>	Truckee Donner Land Trust		
<b>Type:</b> 501(c)3 Nonprofit	<b>501(c)(3) EIN#</b> 68-0245327	<b>Governmental entity? Y/N</b> No	
<b>Address:</b>	10069 West River Street Unit 1c		
<b>Project Name:</b>	Truckee Springs		
<b>Amount requested:</b> \$75,000	<b>Website:</b> truckeedonnerlandtrust.org		
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>		Acquire the 26-acre Truckee Springs property on the south bank of the Truckee River for conservation and recreation	
<b>Key People:</b>	<b>Director:</b>	Perry Norris	
	<b>Board Chair:</b>	Jeff Brown	
	<b>Project Contact:</b>	<b>Name:</b>	John Svahn
		<b>Position:</b>	Associate Director
		<b>Phone:</b>	530-582-4711
		<b>Fax:</b>	530-582-5528
		<b>Email:</b>	john@tdlandtrust.org
<b>Organization Mission:</b>			
<b>Has your organization received other grants from the Truckee River Fund?</b> Yes	If yes,		
	<b>Date awarded:</b>	3/30/2018	
	<b>Project title:</b>	Cold Stream Meadow Road Decommissioning and Restoration	
	<b>Amount of Award:</b>	\$65,000	
	<b>Date awarded:</b>	9/23/2016	
	<b>Project title:</b>	Webber Lake Little Truckee River Headwaters Management	
	<b>Amount of Award:</b>	\$75,000	
	<b>Date awarded:</b>		
<b>Project title:</b>			
<b>Amount of Award:</b>			

**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.<sup>3</sup>
- ☒ E. Other projects that meet the evaluation criteria.



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

The goal of the Truckee Springs Open Space Acquisition is to acquire 26 acres of undeveloped land along the Truckee River within the town limits of Truckee for the purpose of conserving the land in perpetuity and providing public access to the river. Truckee Springs is one of the last undeveloped tracts of land in the river corridor that is not protected as Federal, State, or municipal parkland, and the threat of development is imminent. The acquisition will protect the natural resources and allow for the restoration of several springs impacted by legacy land use. The acquisition will allow for public access on previously closed Truckee Springs property by creating sustainable, durable access, including a new portion of the Truckee River Legacy Trail/Tahoe-Pyramid Trail. If we are successful, the Land Trust will acquire the property in July 2021. The public will be able to access the property immediately upon acquisition.

2. Project Location

The project is located in downtown Truckee on the south bank of the Truckee River, encompassing roughly 26 acres of flood plain west of South River Street. It is a portion of the last remaining undeveloped land within Truckee's urban core.





Property shown left, Truckee River & downtown Truckee right

### 3. Project description

The Truckee Springs Acquisition will result in the permanent protection of much of the Truckee River's south bank and floodplain in downtown Town of Truckee. The property to be acquired is 26 acres and contains nearly a half-mile of riverfront. The acquisition prevents future impacts brought forth through development, including additional impervious surfaces that affect stormwater and snow runoff volume, sedimentation and temperature, and loss of available habitat connections from riparian areas to uplands. The property is zoned for up to 40 single-family units, which is quite dense on a property this size. According to Informing Watershed Planning and Policy in the Truckee River basin through Stakeholder Engagement, Scenario Development, and Impact Evaluation by the staff of The Nature Conservancy and others, simply preventing development and the associated impacts is one of the most effective ways to prevent water quality degradation in the watershed.

The property contains multiple springs and a pond that feed into the Truckee River, as well as mature cottonwoods, aspen groves and riparian vegetation. It is the last remaining open space in downtown Truckee that links the Truckee River to thousands of acres of protected U.S. Forest Service and California Department of Fish and Wildlife lands. Much of the property is within the flood plain of the river, and is characterized by sage and other brush, with stands of alder, aspen and pine forest as the property slopes up to the south.

A network of sustainable trails and river access points will be constructed once the property is acquired. The property and its trails will provide the only public access to the river in downtown Truckee. This includes a portion of the Town's premier multi-use paved trail – the Truckee River Legacy Trail – that will connect Glenshire to Donner Lake. As it winds through Truckee, the Legacy Trail is also the Tahoe-Pyramid Trail, linking Lake Tahoe with Truckee and Reno along the Truckee River. Aside from river access and the multi-use paved trail, the property will serve as Truckee's hub for trail recreation, linking with numerous popular trails. The property and its associated trails provide local river and open space access via trails separated from motor vehicle traffic to residents of several disadvantaged communities living nearby.

The Land Trust has partnered with Truckee Meadows Water Authority (TMWA) and the Truckee River Fund on numerous occasions to protect the riparian corridor of the Truckee, as well as to promote and maintain people's access to the River. The Land Trust holds conservation easements along 93 riverfront acres in the Truckee Canyon on land owned by TMWA. In addition the Truckee River Fund has funded cleanups of the river, forestry to restore meadows in the headwaters, and the decommissioning of erosive former logging roads along a prominent cold-water headwater tributary, aptly named Cold Stream.

Acquisition of Truckee Springs will cost \$6,250,000.00. The total project including acquisition, trails, and the construction of a pedestrian bridge across the Truckee River for additional and more convenient public



access will cost roughly \$10,000,000.00. The Truckee Donner Land Trust respectfully requests a grant of \$75,000.00 from the Truckee River Fund, to aid in the acquisition of this unique and important property.

4. Grant Priorities.

This project is aligned with priorities II, IV, with secondary benefits aligned with priority III. Most of the grant priorities fund the restoration of the Truckee River and its tributaries. While this acquisition is not directly a restoration project, prevention of development in the riparian corridor will preclude the construction of numerous impervious surfaces that will accelerate the velocity and temperature of runoff, leading to erosion and increased water temperatures. Both of these conditions are often the root cause of future restoration. This acquisition will also open the door for restoration projects on the property heretofore not possible under current ownership.

5. Permitting.

The acquisition is exempt from CEQA. Change of use designation in planning, and permitting of the trails and bridge will be done in concert with the Town of Truckee. This includes CEQA and NEPA permitting, coordinated with the town's construction of the paved class-one multi-use Truckee River Legacy Trail across the property. Coordination with the Town of Truckee is already underway.

6. Future Land use.

The 26-acre property will be permanently conserved as open space by the Truckee Donner Land Trust, with basic recreation infrastructure including sustainable trails, and picnic tables and benches. The land will be managed for recreation and conservation. In addition, legacy impacts will be restored including an impacted area of springs, and portions of roads that capture drainages.

7. Future phases.

The acquisition will be complete by July 2021. Permitting and Implementation of the trail plan will be funded by a combination of Town of Truckee funding for the Truckee River Legacy Trail and public and private fundraising by the Truckee Donner Land Trust already underway. The Land Trust aims to raise \$4 million total for stewardship of the property.

8. Principals involved.

Truckee Donner Land Trust is the project lead, with cooperation from the Town of Truckee.

9. Number of staff positions involved:

Fulltime: 4 Part time: 1

Truckee Donner Land Trust will have four full-time employees dedicating a portion of their time to the acquisition project, as well as a part-time summer seasonal employee. This includes staff working to raise the balance of funding necessary for the project, staff to complete the acquisition including due diligence, title and finance. Lastly 1.5 full time staff will work to design the recreation facilities.

10. Number of volunteers involved:

No volunteers will be involved in the acquisition or permitting portion of the project, but once construction begins, Truckee Donner Land Trust will use volunteers on the dirt trail construction. Typically, the Land Trust sees 300 volunteers in a summer for trail construction and maintenance projects.

11. Timeline.

Planning: Today – January 2021

Permitting: Today – June 2021

Acquisition of Property: July 2021

Construction begins: Summer 2021

12. Success.

The project will be successful with the acquisition of the 26-acre property, forever protecting the land from future development and providing access for the public to enjoy it.

13. Collaboration.

Town of Truckee: project funder (\$500,000 committed to date), lead on Truckee River Legacy Trail, partner in protect permitting

Truckee Trails Foundation: Partner in trail design and in coordinating trail plan with nearby existing and planned trails to create cohesive trail network

Truckee River Watershed Council: Partner in possible restoration projects on property

14. Grant match.

Truckee Donner Land Trust will support the balance of the project: Currently \$1,120,985 has been raised from private individuals and foundations. The Land Trust will include \$3 million from property transfer fees and a bequest. California Natural Resources Agency has granted \$1 million, and the Town of Truckee has committed \$500,000 to the project.



15. Budget

Expenses	Amount	Notes
Acquisition & hard costs	\$6,500,000	
Pedestrian bridge	\$2,500,000	Estimate
Trails and amenities	\$250,000	Includes planning, paved trail to Legacy Trail
Trail head	\$250,000	Extension of South River Street
Stewardship fund	\$250,000	Operations & maintenance
Other expenses	\$250,000	Permitting, staff costs, public art, campaign
	\$10,000,000	
Income		
TDLT bequest	\$2,000,000	In-hand
TDLT Transfer fees	\$1,000,000	In-hand
California Natural Resources Agency	\$1,000,000	Pledged
California Wildlife Conservation Board	\$500,000	Pending
California EEMP	\$1,000,000	planned
Private fundraising	\$2,500,000	\$1,100,000 in-hand
Town of Truckee	\$1,000,000	\$500,000 pledged
Other government entities	\$1,000,000	Pending
	\$10,000,000	

For the cash portion of your match, is the funding already being help by the applicant for this project?  
Yes

Description of matching funds:

Funds already raised/to be raised for stewardship costs as part of the Truckee Donner Land Trust campaign to acquire Truckee Springs.

Included attachments:

Last audited Financial Statement

List of Board of Directors

Copy of IRS 501(c)3 Tax Determination Letter

Copy of most recent IRS 990

**Cover Sheet**

**Date: 07/31/2020**

<b>Organization Name:</b>	Board of Regents, NSHE, obo the Desert Research Institute		
<b>Type:</b>	501(c)(3) EIN#88-6000024	<b>Governmental entity?</b> No	
<b>Address:</b>	2215 Raggio Parkway, Reno, NV 89512		
<b>Project Name:</b>	Occurrence, Fate and Risk of PFAS in the Truckee River		
<b>Amount requested:</b> \$65,414	<b>Website:</b> www.dri.edu		
<b>This funding will be used to:</b> Develop quantitative information about occurrence of certain PFAS compounds in the Truckee River and risks posed by them. The project aims to provide useful information to aid in the development of pollution removal strategies from the Truckee River.			
<b>Key People:</b>  Rishi Parashar Alexandra Lutz Xuelian Bai Lazaro Perez Jeffrey Daniels	<b>Director:</b>	Sean A. McKenna, Ph.D. (DRI/DHS)	
	<b>Board Chair:</b>	Jason Geddes (NSHE)	
	<b>Project Contact:</b>	<b>Name:</b>	Rishi Parashar
		<b>Position:</b>	Associate Research Professor
		<b>Phone:</b>	775-673-7496
		<b>Fax:</b>	775-673-7363
	<b>Email:</b>	Rishi.Parashar@dri.edu	
<b>Organization Mission:</b> We excel in basic and applied research and the application of technologies to improve people's lives throughout Nevada and the world. We implement this mission by fostering scientific and engineering talent. We apply scientific understanding to the effective management of natural resources while meeting Nevada's needs for economic diversification and science-based educational opportunities.			
<b>Has your organization received other grants from the Truckee River Fund? Yes X No</b> (use additional page if necessary) – see additional page 7	If yes, Date Awarded: 09/16/2010 Project Title: #67 Cloud Seeding Project for Tahoe and Truckee Basins for WY2010 Amount of Award: \$165,151.00		
	Date Awarded: 10/25/2010 Project Title: #81 Cloud Seeding Project for Tahoe and Truckee Basins for WY2011 Amount of Award: \$155,272.90		

**DESCRIPTION OF PROJECT UNDER CONSIDERATION**

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

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- ☒ C. Projects that remove pollution from the Truckee River.
- ☐ D. Projects that remove or control invasive aquatic species or terrestrial invasive plantspecies that are adverse to water supply.<sup>3</sup>
- ☐ E. Other projects that meet the evaluation criteria.

## Occurrence, fate, and risk of PFAS in the Truckee River

### 1. Project Goals and Measurable Outcomes

This project is a fifteen-month study of per- and polyfluoroalkyl substances (PFAS) at locations along the Truckee River upstream and downstream from the Chalk Bluff drinking water treatment plant. PFAS are contaminants of emerging concern (CECs) for a public water system (PWS) and refers to a class of more than 4,000 synthetic chemicals that have been manufactured and released into the environment for over 50 years. There are severe environmental risks and human-health concerns associated with PFAS because of their long-term persistence in the environment that is attributable to low environmental biodegradability and which contributes to high bioaccumulation in both wildlife and humans. In 2020, a lifetime health advisory of 0.07 µg/L (70 ng/L) was issued for two specific PFAS — perfluorooctanoate (PFOA: CAS ID #335-67-1) and perfluorooctane sulfonate (PFOS: CAS ID #1763-23-1) — in potable water to protect against long-term exposure and subsequent health effects (USEPA, 2020).

The Truckee River and Chalk Bluff Treatment Plant supplies the growing Reno/Sparks metropolitan area with drinking water. Since 2005, approximately 100,000 people have moved in Washoe County, most in the Reno/Sparks metropolitan area, with about 60,000 additional people anticipated by 2030. This project aims to develop a spatial and temporal baseline to inform the utility about PFOS and PFOA concentrations in the Truckee River at the intake and outflow of the Chalk Bluff Treatment Plant and health risks that could develop from chronic exposure thereby supporting the development of basin-wide planning and treatment decision making. There is no known, current study of PFAS occurrence along the Truckee River. A USGS report released a decade ago (Thomas, 2009) lists the analyses of CECs in samples taken between 2002 and 2005 at the intake of the Chalk Bluff Treatment Plant. Limited samples were taken after treatment (some contaminants persisted) and downstream persistence was not measured.

The project's specific goals are as follows:

- a) Quantification of the presence of PFAS, specifically PFOA and PFOS, in the Truckee river and investigation of spatial and temporal trends of their concentration

We hypothesize that concentrations of the PFOA and PFOS will vary over time as spring flows increase and summer flows decrease. We observed this in a similar study of PFAS contaminants of emerging concern in the South Platte River in the Denver metropolitan area (Bai *et al.*, 2018). The CECs were less persistent during the spring runoff season compared with baseflow (low water flow) season at most sampling sites. Statistical analysis of space and time varying data of PFAS concentrations obtained from various sampling points along the river will help understand their correlations and provide a framework for extrapolation under differing hydrologic conditions.

- b) Developing an understanding of the transport dynamics of PFAS in the Truckee River

Both PFOA and PFOS are reported to have the potential of long-range transport in river systems (Li *et al.*, 2017). Numerical modeling studies of transport of PFAS in the Truckee River will lead to a better understanding of how their prevalence and fate are impacted by hydrochemical conditions in the river and effects of treatment. Transport models will yield useful quantitative information of state and persistence as PFAS travel down the river towards Chalk Bluff.

- c) Assessment of risk posed by the identified compounds at the measured concentration levels

The EPA has determined that PFOA and PFOS meet the safe drinking water level (SDWA) statutory criterion #2 for regulatory determination, because they occur with a frequency deemed

to be of public health concern at public water systems.

We will explain the derivation of the proposed risk-based SDWA level for PFOA and PFOS and compare this proposed risk-based concentration to monitoring data collected in this study. Based on this comparison we will determine if concentrations are expected to be *de minimis* (minimal and of no concern) after treatment or if untreated could be of concern because of chronic exposure by the exposed population. This analysis will inform decision makers whether there is need for future study and intervention by the treatment facility serving metropolitan Reno, NV.

## 2. Project Location

Five sites will be selected upstream and downstream of Chalk Bluff. One of these sites will be just upstream of the intake one just downstream of it. Other sites to be determined based on accessibility.

## 3. Project Description

Water samples will be collected monthly for 12 months at the five sites. There will be a total of 60 samples. Twelve months is necessary to cover an entire year's seasonal variation of flows in the Truckee River. In addition, hydrologic conditions of the river will also be recorded from the USGS stream gauges. The samples will be analyzed at the DRI laboratory for presence of a set of PFAS compounds. Laboratory measurements will form the basis for statistical analysis for spatiotemporal trends in data. This will further be incorporated into a mechanistic model of PFAS transport in the Truckee River. The measured and numerically modeled concentration levels will be used in analysis of potential health risk to humans. At the conclusion of the project, we expect to provide quantitative information about PFAS occurrence, fate, and risk to TMWA in order to help develop PFAS management and removal strategies. Details related to individual tasks of the project are as follows:

### 3.1 Sample collection and laboratory analysis

All water samples will be analyzed for a group of long-chain and short chain PFAS (includes PFOA and PFOS) that has been widely used (Table 1). In brief, water samples will be collected in polypropylene containers at each site. Water chemistry parameters will be characterized during each sampling event. All samples will be spiked with 5 ng of internal standard (13C6-PFHxA) and stored at -20 °C until extraction. Water samples will be further cleaned using solid phase extract with Waters OASIS WAX columns. Extracted and cleaned samples will be injected into an ultra-performance liquid chromatography tandem mass spectrometer (UPLC-MS/MS) system and the target PFAS will be detected using multiple reaction monitoring (MRM) method.

**Table 1.** Target PFAS analytes.

Compound	Formula	MW (g/mol)
<b>Perfluoroalkyl carboxylic acids (PFCAs)</b>		
Perfluorobutanoic acid (PFBA)	C <sub>4</sub> HF <sub>7</sub> O <sub>2</sub>	214.04
Perfluoropentanoic acid (PFPeA)	C <sub>5</sub> HF <sub>9</sub> O <sub>2</sub>	264.05
Perfluorohexanoic acid (PFHxA)	C <sub>6</sub> HF <sub>11</sub> O <sub>2</sub>	314.05
Perfluoroheptanoic acid (PFHpA)	C <sub>7</sub> HF <sub>13</sub> O <sub>2</sub>	364.06
Perfluorooctanoic acid (PFOA)	C <sub>8</sub> HF <sub>15</sub> O <sub>2</sub>	414.07
Perfluorononanoic acid (PFNA)	C <sub>9</sub> HF <sub>17</sub> O <sub>2</sub>	464.08
Perfluorodecanoic acid (PFDA)	C <sub>10</sub> HF <sub>19</sub> O <sub>2</sub>	514.08
Perfluoroundecanoic acid (PFUA)	C <sub>11</sub> HF <sub>21</sub> O <sub>2</sub>	564.09
Perfluorododecanoic acid (PFDoA)	C <sub>12</sub> HF <sub>23</sub> O <sub>2</sub>	614.10

Perfluorotridecanoic acid (PFTrDA)	C <sub>13</sub> HF <sub>25</sub> O <sub>2</sub>	664.11
<b>Perfluoroalkyl sulfonic acids (PFSA)</b>		
Perfluorobutane sulfonic acid (PFBS)	C <sub>4</sub> HF <sub>9</sub> O <sub>3</sub> S	300.10
Perfluoropentane sulfonic acid (PFPeS)	C <sub>5</sub> HF <sub>11</sub> O <sub>3</sub> S	350.10
Perfluorohexane sulfonic acid (PFHxS)	C <sub>6</sub> HF <sub>13</sub> O <sub>3</sub> S	400.11
Perfluoroheptane sulfonic acid (PFHpS)	C <sub>7</sub> HF <sub>15</sub> O <sub>3</sub> S	465.21
Perfluorooctane sulfonic acid (PFOS)	C <sub>8</sub> HF <sub>17</sub> O <sub>3</sub> S	500.13
Perfluorononane sulfonic acid (PFNS)	C <sub>9</sub> HF <sub>19</sub> O <sub>3</sub> S	549.12
Perfluorodecane sulfonic acid (PFDS)	C <sub>10</sub> HF <sub>21</sub> O <sub>3</sub> S	599.13

### 3.2 Statistical analysis for spatiotemporal description

Statistics of the collected PFAS data such as, minimum, maximum, mean, standard deviation, coefficient of variation, and skewness will be determined. The standard deviation, coefficient of variation (CV), and skewness of PFAS concentrations versus mean values will be plotted across spatial and temporal scale. Spatiotemporal data will be used to evaluate relationships between various state variables (chemical and hydrological), and to study extrapolations under varying conditions.

### 3.3 Model development for PFAS fate and transport

One-dimensional numerical models will be constructed to simulate PFAS transport in the Truckee River. It will include advective-dispersive transport under different flow scenarios adapted to the local conditions. The numerical model will be run with input of loads that change in time according to the concentration series interpolated from the measured concentrations. Additionally, the model will be run using maximum values of the measured concentration in order to find the large spikes that current PFAS loads can cause. Finally, we will estimate the magnitude of continuous constant PFAS loads which can cause the overall concentration to rise.

### 3.4 Assessment of potential risks

We will explain the USEPA derivation of the proposed Safe Drinking Water Level of 70 ng/L (0.07 microgram/L) for both Perfluorooctanoic Acid (PFOA: CAS ID #335-67-1) and Perfluorooctanesulfonic Acid (PFOS: CAS ID #1763-23-1) (USEPA 2020), and compare this proposed risk-based concentration to monitoring data. Based on this comparison we will provide insight into whether concentrations will be *de minimis* or of concern, which will be helpful to future decision making about the need for advanced water treatment.

## 4. **Grant Priorities**

By monitoring of selected priority PFAS at several locations, we will develop a comprehensive understanding of their occurrence and spatiotemporal variation in the Truckee River. Statistical analysis of loads of PFAS upstream of the Chalk Bluff water treatment plant, will allow us to assess removal rates of PFAS compounds through natural attenuation and inform stakeholders about management and water treatment strategies. Successful completion of this project will provide quantitative information to the stakeholders to help develop PFAS removal strategies.

## 5. **Permitting**

Design, engineering, or permitting tasks are not applicable for this proposed project.

## 6. **Future Land Use**

We anticipate using the results of this study to lead to a basin-scale study of PFAS in the Truckee and Carson watersheds.

## **7. Future Phases**

This work will support further studies of water-quality in the semi-arid areas of the United States and globally.

## **8. Principals Involved**

Dr. Parashar, and associate research professor, has expertise in statistical analysis and transport modeling; Dr. Bai, an assistant research professor, is an expert in ecotoxicology and environmental chemistry. Dr. Lutz, an associate research professor, has background in water quality and sustainability problems. Dr. Perez, a postdoctoral researcher, is expert in reactive transport modeling and geochemical studies. Dr. Daniels is an environmental health science consultant, with expertise in public health exposure analysis and risk assessment. Together, these five individuals integrate talent, knowledge, and expertise that is essential for a successful execution of this proposed project.

## **9. Staff Positions Involved**

All five team members will work part time on this project (ranging from a few days to a few weeks over the duration of the project for the four senior members, and a total of 3 months for the postdoc position).

## **10. Volunteers Involved**

The proposed project will not involve volunteers.

## **11. Time Line**

This 15-month long project will start on October 1, 2020 and conclude on December 31, 2021. The sample collection and analysis will only occur in the first 12 months. Task integration and a project report will be completed in the final three months of the project.

## **12. Success Metrics**

After 6 months, a mid-term metric for success is preliminary compilation of analyses and comparison with the previous report on the Truckee, Denver, and other similar areas. The final metric for success is compilation of 12 months analyses and further comparison with other reports. At this point, ecological and human health risks may be evaluated if present.

## **Collaboration**

The Desert Research Institute is the sole participant in this project.

## **References**

- Bai X, Lutz A, Carroll R, Keteles K, Dahlin K, Murphy M, Nguyen D. 2018. Occurrence, distribution, and seasonality of emerging contaminants in urban watersheds. *Chemosphere*. 200: 133–142. doi:10.1016/j.chemosphere.2018.02.106.
- Li Q, Wang T, Zhu Z, Meng J, Wang P, Suriyanarayanan S, Zhang Y, Zhou Y, Song S, Lu Y, Yvette B. 2017. Using hydrodynamic model to predict PFOS and PFOA transport in the Daling River and its tributary, a heavily polluted river into the Bohai Sea, China. *Chemosphere*, 167, 344-352.
- Thomas K. A. 2009. Organic compounds in Truckee River water used for public supply near Reno, Nevada, 2002-05: U.S. Geological Survey Fact Sheet 2009-3100, 6 p.
- USEPA, 2020. Announcement of Preliminary Regulatory Determinations for Contaminants on the Fourth Drinking Water Contaminant Candidate List, 40 CFR Part 141, *Fed. Regist.* 85(47), 14098-14142.

## Grant Match

<b>Match amount to be provided:</b>		<b>\$21,805</b>
<b>Match details:</b>	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	<b>\$17,444</b>
	In-kind	<b>\$4,361 (25% indirect on the cash match)</b>
	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 <u>X</u> No <u>    </u>	
<b>Description of matching funds/in-kind donations:</b>	DRI will use non-federal, discretionary funds as the cash portion of the match; 25% indirect on the cash match is being used as in-kind.	

## ORIGINAL PROJECT BUDGET REPORT

	TRF	DRI (Match)	TOTAL PROJECT
<b>PERSONNEL</b>			
Parashar, Rishi (PI)	11,522	0	11,522
Lutz, Alex	2,710	0	2,710
Bai, Xuelian	5,522	0	5,522
Perez, Lazaro	13,649	0	13,649
<b>TOTAL PERSONNELL</b>	33,403	0	33,403
<b>FRINGE</b>			
Professional	9,759	0	9,759
Post Doc	4,613	0	4,613
<b>TOTAL FRINGE</b>	14,372	0	14,372
<b>OPERATING</b>			
Lab Analyses	4,556	13,444	18,000
Lab Supplies	0	2,000	2,000
Consultant - Jeff Daniels	0	2,000	2,000
<b>TOTAL OPERATING</b>	4,556	17,444	22,000
<b>TOTAL DIRECT COSTS</b>	52,331	17,444	69,775
<b>ICR (ON MTDC) - 25%</b>	13,083	4,361	17,444
<b>TOTAL COST</b>	<b>65,414</b>	<b>21,805</b>	<b>87,219</b>

## REIMBURSEMENT

Expenditures to Date:

[illegible]



**Continuation of other grants from the Truckee River Fund (from page 1):**

Date Awarded: 07/01/2011 Project Title: Integrated Water Quality Monitoring on the Truckee River Amount of Award: \$318,012.00
Date Awarded: 10/20/2011 Project Title: #92 Cloud Seeding Project for Tahoe and Truckee Basins for WY2012 Amount of Award: \$154,815.00



**COMMUNITY  
FOUNDATION**  
of Western Nevada

**TRUCKEE RIVER FUND**  
TRUCKEE RIVER FUND  
TRUCKEE RIVER FUND

**Cover Sheet****Date:**

<b>Organization Name:</b>	Washoe County	<b>Date:</b>	July 31, 2020																												
<b>Type:</b>	501(c)(3) EIN# 88-6000138	<b>Governmental entity:</b>	Y/N																												
<b>Address:</b>	1001 East Ninth St, Reno NV 89512																														
<b>Project Name:</b>	Encampment Clean-up and Unsheltered Individual Data Collection																														
<b>Amount requested:</b>	\$179,932	<b>Website:</b>	washoecounty.us																												
<b>This funding will be used to (complete this sentence with a max of 2 sentences):</b>		To improve water quality by reducing the amount of pollution in as a result of encampments																													
<b>Key People:</b>	<table border="1"> <tr> <td><b>Director:</b></td> <td colspan="3">Eric Brown, County Manager</td> </tr> <tr> <td><b>Board Chair:</b></td> <td colspan="3">Bob Lucey, Board of County Commissioners</td> </tr> <tr> <td><b>Project Contact:</b></td> <td><b>Name:</b></td> <td colspan="2">Dana Searcy</td> </tr> <tr> <td></td> <td><b>Position:</b></td> <td colspan="2">Special Projects Manager</td> </tr> <tr> <td></td> <td><b>Phone:</b></td> <td colspan="2">775.399.2005</td> </tr> <tr> <td></td> <td><b>Fax:</b></td> <td colspan="2"></td> </tr> <tr> <td></td> <td><b>Email:</b></td> <td colspan="2">dsearcy@washoecounty.us</td> </tr> </table>			<b>Director:</b>	Eric Brown, County Manager			<b>Board Chair:</b>	Bob Lucey, Board of County Commissioners			<b>Project Contact:</b>	<b>Name:</b>	Dana Searcy			<b>Position:</b>	Special Projects Manager			<b>Phone:</b>	775.399.2005			<b>Fax:</b>				<b>Email:</b>	dsearcy@washoecounty.us	
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<b>Organization Mission:</b>	Working together regionally to provide and sustain a safe, secure and healthy community.																														
<b>Has your organization received other grants from the Truckee River Fund?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (use additional page if necessary)	If yes, <table border="1"> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> <tr><td>Date awarded:</td><td></td></tr> <tr><td>Project title:</td><td></td></tr> <tr><td>Amount of Award:</td><td></td></tr> </table>			Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:		Date awarded:		Project title:		Amount of Award:											
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**DESCRIPTION OF PROJECT UNDER CONSIDERATION**

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

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

**NARRATIVE REQUIREMENTS**

<sup>3</sup> For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. [lrenda@nevadafund.org](mailto:lrenda@nevadafund.org); 775-333-5499.

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



**COMMUNITY  
FOUNDATION**  
of Western Nevada

**TRUCKEE RIVER FUND**  
for the Truckee River Watershed, Washoe County, Nevada



#### Grant Match

<b>Match amount to be provided:</b>		<b>\$ \$77,650</b>
<b>Match details:</b>	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	\$
	In-kind	\$ \$77,650
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"/>		
<b>Description of matching funds/in-kind donations:</b>	Washoe County will provide \$77,650. This will be made up of \$67,250 of in-kind staff time and \$10,400 in volunteer labor time.	

#### 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

1001 E. 9TH STREET  
 RENO, NEVADA 89512  
 PHONE: (775) 328-2000  
 FAX: (775) 328-2491



## WASHOE COUNTY

### OFFICE OF THE COUNTY MANAGER

To the Truckee River Fund committee:

Washoe County is requesting a grant of \$179,932 from the Truckee River Fund for a project to improve water quality in the Truckee River. Washoe County will provide a \$77,650 match, or 43% of the grant amount. The total budget for the project is \$257,582.

The goal of the Washoe County project is to improve Truckee River water quality by reducing the amount of pollution in the River as a result of encampments along and near the Truckee River with the eventual goal of drastically reducing the number of people camping along the River and provide those vulnerable populations with resources. Encampments result in the production of human waste, trash, medical waste and sharps (devices with sharp points or edges which are often also biohazards) being disposed in or near the Truckee River, instead of in an appropriate fashion that would keep waste out of the Truckee River. By creating relationships with unsheltered individuals, empowering them to participate in river-clean ups, and engaging them with the goal of moving into housing, the utilization of encampments along the Truckee River will be diminished.

The project, in partnership with established local non-profit and government partners, will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River. Additionally, the project's River Stewards Program will work directly with unsheltered individuals to clean up areas along the Truckee River during regularly scheduled river clean-ups. Finally, three sharps collection receptacles will be placed along the river to encourage safe, non-polluting disposal of these items.

By coupling river clean-ups with better data collection and a safe way to dispose of sharps, Washoe County will be addressing multiple challenges affecting water quality and will lead to the eventual decrease of encampments along the River as unsheltered individuals are connected to housing resources.

Thank you for your consideration of this proposal.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Brown".

Eric Brown  
 Washoe County Manager



QUALITY  
PUBLIC SERVICE



INTEGRITY



EFFECTIVE  
COMMUNICATION

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

The goal of the project is to improve water quality by reducing the amount of pollution in the Truckee River as a result of encampments along and near the Truckee River. Encampments result in the production of human waste, trash, medical waste and sharps (devices with sharp points or edges which are often also biohazards) being disposed in or near the Truckee River, instead of in an appropriate fashion that would keep waste out of the Truckee River. According to a This is Reno article from November 2019, "Homeless camps along the Truckee River banks are of obvious concern to us as the river is our primary source of supply." (Source: <https://bit.ly/3hMBRt8>) By creating relationships with unsheltered individuals and engaging them with the goal of moving into housing the utilization of encampments along the Truckee River will be diminished.

This proposed project consists of four components:

1. Establishing an outreach team to build relationships and collect basic information on unsheltered individuals living within 0.75 miles of the Truckee River.
2. Establishing and maintaining a By-Name List (BNL) of unsheltered individuals living within 0.75 miles of the Truckee River.
3. Empowering unsheltered individuals to participate in clean-ups along the River to reduce waste, becoming River Stewards.
4. Installing sharps containers and weekly pick up and disposal of the contents.

The goals and measurable outcomes of the project include:

- The creation of a BNL of unsheltered individuals to effectively track the number of unsheltered individuals at any given moment. This data will be collected and entered into the Washoe County Homeless Management Information System (HMIS).
- Increase the number of placements into housing programs of unsheltered individuals. This data will be collected in HMIS.
- Conducting River clean-ups a minimum of two days per week. This will be tracked by the Washoe County Program Assistant data tracking- system created by Washoe County Technical Services.
- Track number of people volunteering in river clean-ups. Show increase in volunteers from beginning to completion of project. This will be tracked by a newly created River Stewards reporting tool.
- Provide education on safe disposal of sharps and harm reduction strategies such as decreasing substance use and improved personal hygiene. Track number of educations provided. Tracked by a newly created reporting tool.
- Measure pounds of sharps waste removed from River. The company that provides sharps disposal will provide this data.

The above outcomes will be reported on a quarterly basis on a Regional Homeless Plan website maintained by Washoe County, at the Community Homelessness Advisory Board (CHAB) and to the TMWA Board as requested.

**2. Project location.**

The project will initially be concentrated in the section of the Truckee River between Aces Ballfield and John Champion Park (Map 1 below) as this area has a large concentration of encampments and, as a result, diminished water quality. Once established in the area above, the project will span the areas between McCarran West and East (Map 2 below)

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

Map 1

Map 2



Similar efforts have taken place in California along the Russian River. The Russian River Clean River Alliance (CRA) noted that “by engaging homeless individuals to clean up their own camps and volunteer alongside the CRA, the amount of trash entering the Russian River has dramatically declined, leading to beach clean-ups at the mouth of the Russian River to be canceled – due to the lack of trash.” (source: <https://bit.ly/311AIHt>)

By coupling river clean ups with better data collection, Washoe County will be addressing multiple issues and will lead to the decrease of encampments along the River as unsheltered individuals are connected to housing resources. The work of engaging unsheltered individuals and ultimately creating River Stewards will be spearheaded by a formerly unsheltered individual who has the relationships and experience necessary to effectively work with this population. He will lead teams of volunteers in the River clean-ups as well as providing lived expertise on the best ways to build the trust necessary to collect data from unsheltered individuals. Washoe County will provide staff with the technical expertise to collect and analyze data collected in order to connect unsheltered individuals with housing resources.

Washoe County will purchase gift cards to provide to unsheltered individuals participating in the River clean-ups as a way to incentivize participation and form a mutually beneficial relationship and build trust with the population.

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

The project advances the following TRF priorities: watershed improvement and leveraging stakeholder assets and participation. Controlling the flow of human created trash is critical to protect the health of the Truckee River. Trash generated by unsheltered individuals camping along the Truckee has a large impact on the health of the region’s water source. The River Stewards Program will work directly with unsheltered individuals to clean up areas along the Truckee River. Additionally, in partnership with established local non-profit and government partners, the project will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River, a source of human fecal waste entering the river and reducing water quality.

This work cannot be accomplished by one agency which is why this innovative project is a collaboration of key regional stakeholders. A full list of partners can be found below. Washoe County will leverage partnerships to ensure all the necessary players are involved in the project- from direct service providers to assist with outreach and holding harm reduction classes, to the cities and law enforcement to ensure a uniform approach to enforcement issues. Most importantly, the County will partner directly with unsheltered individuals, empowering them to clean their current home and working with them to relocate to housing.

**5. Permitting.** Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget. No permits will be required for the river clean-up. The permit for sharps collection and disposal is the responsibility of the company that collects the waste.

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

None known

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

This is a pilot program that will be evaluated throughout its duration and at its completion to determine if it is a model that is sustainable long term.

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

Washoe County will be coordinating the project as an initiative within the Built for Zero Project, bringing together the below-mentioned organizations and entities and unsheltered individuals to effectively count unsheltered individuals to house them, organize river clean-ups, and maintain sharps collection boxes.

The project, in partnership with established local non-profit and government partners, will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River.

For the cleanup aspect of the project we will actively partner with unsheltered individuals. Unsheltered individuals will be engaged to clean up and maintain their encampments in addition to providing appropriate sharps receptacles, leading to a reduction of waste into the Truckee River and improved water quality. To ensure success we will:

- Communicate and partner with local service providers and outreach teams prior to any clean-up activity to build a relationship and enroll encampment residents' support.
- Provide River Steward Project materials at homeless shelters, food pantries, homeless service centers, or directly to unsheltered individuals.

The Karma Box Project (KBP) is leading the River clean-ups and will actively partner with unsheltered individuals and local nonprofit and advocacy agencies to recruit and deploy volunteers. KBP is a non-profit community outreach initiative providing non-perishable food, first aid, toiletries and positive direction to those in need. It was initially founded in 2019, established to organize a method to transfer items between people who have them, and the people who need them.

Other partners on the project include: the Cities of Reno and Sparks, the Reno Regional Veterans Administration, Community Solutions (using their Built for Zero methodology to create a lasting end to homelessness) and the Washoe County Sheriff's Office.

9. Number of **staff positions involved** in project: Fulltime Part-time ("Fulltime" means 100% of their staff position will be dedicated to this project; "part-time" means only a portion of their staff position will be dedicated to this project)

Two Washoe County positions: part-time Program Assistant (50% of time), part-time Management Analyst (15% of time). Two contractors to spearhead data collection efforts and River Steward clean-up work (Director, Supervisor).

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

River clean ups will occur two-five days per week for a minimum of two-five hours per day. It is estimated that 5 volunteers will take part in each river clean up. In a year it is expected that between 500- 1300 duplicated individuals will have participated in this project, contributing between 1040-6500 volunteer hours to improving water quality.

11. **Time Line** of Project. List key dates and include project milestones. *Note:* Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.



**By October 2020:**

- Sharps collection receptacles installed
- Creation of team to collect By-Name List (BNL)
- Outreach around river clean-ups River Stewards Project

**By November 2020:**

- Begin river clean ups
- Installation of sharps collection receptacles along river sites along locations in Map 1
- Education/outreach on harm reduction, appropriate disposal of sharps
- Work of Outreach team to collect BNL begins

**Ongoing November 2020 -September 2021:**

- Data entry of unsheltered individuals
- River clean ups
- Education/outreach on harm reduction
- Evaluation of program effectiveness and implementation of any needed program adjustments

**Milestones:**

- Significantly reduce number of sharps and human generated debris in the Chalk Bluff and Glendale water intake locations.
- All unsheltered individuals within the project areas are catalogued on the By Name List for housing placement.
- Unsheltered individuals living in encampments are successfully referred and placed into housing
- Sharps receptacles are in place and utilized.

**12. Success.** Tell the committee how we will know you succeeded in what you proposed to do.

The project will be successful when the following milestones have been accomplished: significantly reduction of sharps and human generated debris in the Chalk Bluff and Glendale water intake locations, all unsheltered individuals within the project areas are catalogued on the By Name List for housing placement, unsheltered individuals living in encampments are successfully referred and placed into housing and sharps receptacles are in place and utilized.

**13. Collaboration.** List partnerships or collaborations with other entities in relation to your proposal, if any.

Washoe County and its regional partners are part of work on Built for Zero, a national movement using data to radically change the work and impact we can achieve to ensure homelessness is rare and brief.

The following agencies are involved in this Built for Zero project: ACTIONN, Catholic Charities of Northern Nevada, Cities of Reno and Sparks, Downtown Reno Partnership, EDAWN, EDDY House, Foundation for Recovery, Health Plan of Nevada, Interagency Council on Homelessness to Housing, Karma Box Project, MOST, Nevada Dept. of Health & Human Services, Nevada DETR, Nevada Legal Services, Northern Nevada Hopes, One Truckee River, Reno Housing Authority, Reno Regional Veterans Administration, RISE, University of Nevada Reno, Valley View Fellowship, Veterans Resource Center, Vitality Veterans, Volunteers of America, Washoe County Health District, Washoe County Sheriff's Office, West Care.

The Karma Box Project (KBP) is leading the River clean-ups and will actively partner with unsheltered individuals and local nonprofit and advocacy agencies to recruit and deploy volunteers.

**14. Grant match.** All applicants must provide a match of at least 25 percent for dollars requested. The match may be with funding and/or in-kind services. For larger grant requests, priority will be given to projects that significantly leverage the grant with funding from other sources. Complete the Grant Match section.

Washoe County will provide \$77,650 toward this project for a total budget of \$257,582. This represents a Washoe County match of 43%

### **Budget**

<b>Budget Item Description</b>	<b>TRF\$</b>	<b>Other Funding</b>	<b>Match \$</b>	<b>Total</b>
Labor – Washoe County Staff		Washoe County	\$67,250	\$67,250
Labor - Paid	\$77,532			\$77,532
Volunteer Labor (\$10/hr x 1,040 hours)			\$10,400	\$10,400
Volunteer Incentives (Gift cards)	\$52,000			\$52,000
Supplies & Materials	\$10,000			\$10,000
Sharps Collection	\$23,400			\$23,400
Administrative Costs	\$17,000			\$17,000
Total	\$179,932		\$77,650	\$257,582

Washoe County Manager's Office- all fund sources

Period: 1 thru 16 2021		Fund: 000		Washoe County Funds		
Account: GO-P-L		Fund Center: 101-0		County Manager		
		Functional Area: 000		Standard Functional Area Hierarchy		
ACCOUNTS	Plan	Actual	PO Commit	Actual + PO	Available	Avail%
* GO-LIC LICENSES AND PERMITS	650,000.00-				650,000.00-	100-
* GO-INTG INTERGOVERNMENTAL	208,367.72-				208,367.72-	100-
* GO-CHG CHARGES FOR SERVICES	110,600.00-	12,623.18-		12,623.18-	97,976.82-	89-
* GO-FINE FINES AND FORFEITURE	74,500.00-	6,787.03-		6,787.03-	67,712.97-	91-
* GO-MISC MISCELLANEOUS	225,000.00-				225,000.00-	100-
* GO-REV REVENUE	1,248,467.72-	19,410.26-		19,410.26-	1,249,057.46-	99-
* GO-SAL SALARIES AND WAGES	3,184,865.20-	153,495.81-		153,495.81-	3,031,369.39-	95-
* GO-BEN EMPLOYEE BENEFITS	1,666,690.49-	83,555.90-		83,555.90-	1,583,134.59-	95-
* GO-SS SERVICES AND SUPPLIE	8,353,530.39-	491,485.67-	1,240,034.43-	1,751,520.10-	6,602,009.29-	79-
* GO-EXP EXPENDITURES	13,205,086.08-	728,537.39-	1,240,034.43-	1,998,571.81-	11,216,514.27-	85-
* GO-OFIN OTHER FINANCING SOUR	144,000.00-				144,000.00-	100-
*** Total	12,080,618.36-	705,127.12-	1,240,034.43-	1,969,161.55-	10,111,456.81-	84-

Community Support funds:

Period: 1 thru 16 2021		Fund: 000		Washoe County Funds		
Account: GO-P-L		Fund Center: 151-0		Community Support		
ACCOUNTS	Plan	Actual	PO Commit	Actual + PO	Available	Avail%
*** Total	219,741.00-	5,625.00-	11,200.00-	16,825.00-	202,916.00-	92-