



Position Description

Sierra Nevada AmeriCorps Partnership

Position Title: River Assessment and Restoration Assistant
Host Site: American Rivers
Site Supervisor: Julie Fair
Contact: 530.478.0206 Ext. 206, jfair@americanrivers.org

Position Location:

Nevada City, CA: The California Regional Office of American Rivers is located in Nevada City, a beautiful and historic foothill community. Considered to be among the best-preserved towns of the West, Nevada City is more than a historical site to see. It is a vibrant, thriving community, and entertainment hub of the Sierra Nevada foothills. At the gateway to the Tahoe National Forest, Nevada City offers fantastic hiking, road and mountain biking, and water recreation, not to mention world class skiing and snowboarding just an hour's drive away. The Wild and Scenic South Yuba River is just minutes outside of town and offers great hiking in the winter and amazing swimming holes in the summer.

Organization Description:

American Rivers is the leading organization working to protect and restore the nation's rivers and streams. Rivers connect us to each other, nature, and future generations. Since 1973, American Rivers has fought to preserve these connections, helping protect and restore more than 150,000 miles of rivers through advocacy efforts, on-the-ground projects, and the annual release of America's Most Endangered River®. Headquartered in Washington, DC, American Rivers has offices across the country and more than 100,000 supporters, members, and volunteers nationwide.

American Rivers' California staff has been at the forefront of major river restoration and protection efforts including the Bay Delta Conservation Plan, the San Joaquin River restoration program, restoration of headwater meadows in the Sierra Nevada, the historic Klamath River agreement to remove four large dams on one of the Pacific coasts most important salmon rivers, and the integration of river ecology in the redesign of California's flood control system. Through our Regional Office in Nevada City, we have begun to address a number of technical, outreach, institutional, and communication needs faced by the river conservation community. American Rivers works closely with many conservation and recreation groups in California to restore rivers and meadows that have been harmed by hydropower dams, excessive diversions, poor water quality, fish passage barriers, historic land uses and other ills.

Program Description:

The 2016- 2017 River Assessment and Restoration Assistant will work closely with the Headwater Conservation team in the planning, design, implementation and evaluation of a range of projects focusing on rivers and watersheds. The member will also work closely with staff and AmeriCorps members at the South Yuba River Citizen's League (SYRCL) on a few of their nearby monitoring and restoration projects. Member service projects in the Sierra will include:

- Sierra Meadow Assessment and Prioritization for Restoration
- Sierra Meadow Restoration and Monitoring including
 - Monitoring and Restoration of Yuba Meadows
 - Hope Valley Meadow Restoration
 - Elliot Meadow Restoration
 - Restoration of Priority Meadows in the Walker Watershed
- Green Infrastructure: Stormwater Retention in the Sierra

- Dams and Fish Passage Barriers
- Forest Health and Road Management
- Deer Creek Tribute Trail and Restoration
- Outreach for American Rivers California Regional Office

Position Description:

The River Assessment and Restoration Assistant will gain a variety of project management, restoration, assessment and outreach skills and experience through their service on a diversity of projects at American Rivers. Assessment skills will include field work as well as desk-top methods. Field assessment will include vegetation, groundwater, hydrology, water quality, geomorphology/topographical surveys, and other biological assessments conducted in Sierra streams and high-elevation meadows. Desktop assessment will include GIS analysis, literature reviews, and research on best management practices. The member will assist with field monitoring and with data analysis, presentation and writing.

The member will gain experience with a variety of watershed restoration, protection and outreach projects. Our meadow restoration projects are at multiple stages of implementation, from initial assessment and prioritization to construction, and the AmeriCorps member will assist with and gain exposure to each phase of restoration. The Instream Flow Protection project will involve researching water use and water rights in Sierra watersheds and monitoring of the impact of the transfers on their ecology. American Rivers' salmon restoration and barrier removal projects will involve the member in stakeholder outreach, strategy and education. Green infrastructure projects will include experience with stormwater management systems that function to reduce runoff, erosion, and contamination of surface water, as well as help prevent flooding. The member will be involved in monitoring, design and outreach, as well as strategies for scaling up this work so the technologies are broadly adopted in the Sierra region. The Deer Creek Tribute trail is a partnership between multiple SNAP host sites in Nevada City, and the member will participate in ongoing vegetation management. Forest Health and Road Management project will involve developing priority sites for road repairs and decommissioning to reduce road-related erosion that impacts the local watershed. The AmeriCorps member will also help with outreach for the American Rivers' California office working with staff in the California and national office to develop outreach materials specific to river and watershed conservation in California.

The SNAP member will be encouraged to take on leadership of one or more projects with the goal of gaining in-depth experience in restoration project management and implementation. The particular focus project (s) will be decided upon once the SNAP member has more knowledge of American Rivers' program areas and it becomes clear where enthusiasm, aptitude and need overlap best.

Required Qualifications:

- B.S. in Environmental Sciences, Natural Resources/Planning, Geomorphology, or related field
- Study or interest in river science
- Experience in field studies and stream sampling
- Strong oral and written communication skills
- Interest in social networking, blogging, and web communication
- Knowledge of GIS software

Additional Benefits:

American Rivers is a national nonprofit organization and you would be working in the California office, in Nevada City. At American Rivers, your Sierra work will always be placed in the larger context of what's happening in river conservation nationwide. We are serious about the professional development of our SNAP members, and all of our SNAP alumni have gone on to either government or nonprofit environmental work or graduate school. Office culture is fun and social (picnics, river trips) and also professional (collared shirts). Field work is concentrated in the summer in high alpine meadows and river headwaters; it will likely be a smaller component of your time than at some other SNAP sites. Nevada City is a small, vibrant foothill town with an active local foods movement, great access to whitewater, biking, hiking, etc. and four SNAP host sites.

Website: americanrivers.org



Member Service Plan

Sierra Nevada AmeriCorps Partnership

Host Site: American Rivers

Position Title: River Assessment and Restoration Assistant

Designated Site Supervisor: Julie Fair

Term of Service: Mid-October 2016 – Mid-September 2017, exact dates TBA

Organizational Background:

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Organizational/Program Goals 2015-16:

In 2016/17, the American Rivers California Regional Office will continue to scale up and expand its program in new directions. We will work within an integrated approach that focuses on strategic and innovative actions from the headwaters to the sea with the goal of building resilient communities and river ecosystems in the face of climate change. Our work in the Sierra focuses on meadow and floodplain restoration, forest health and road decommissioning for watershed benefits, re-operating reservoirs and dams to protect downstream communities and increase aquatic habitat, acquisition of water rights for instream flows, the design and installation of rain gardens and other "green infrastructure" to naturally treat and filter stormwater, and the creation and maintenance of Blue Trails along rivers. We believe that restoration and protection of natural riverine functions, and the "ecosystem services" they deliver, provide invaluable benefits to our Sierra communities and future generations. In addition, we work in partnership with a range of communities and aim to create model projects that can be replicated broadly.

- A. Sierra Meadow Restoration, Monitoring and Management Plan** – American Rivers is conducting assessment, monitoring, and restoration work on Sierra meadows in over 10 watersheds. We will implement an assessment protocol to determine the current state of each of these meadows and their respective rivers. From this data collection and analysis, and a

review of restoration techniques, we will develop restoration designs for each meadow. Additionally, we will continue to monitor multiple physical and biological parameters which will contribute to our pre- and post-restoration data and will help us to better assess if the restoration is successful in the future.

- B. Green Infrastructure: Stormwater Retention** – The Yuba Watershed is threatened by excessive sediment loading and pollutants. Specific problems associated with sediment were identified in the Upper Deer Creek Assessment and Restoration Plan, and include excessive fine sediment deposits in certain reaches; excessive nutrient loads in certain reaches; non-point source pollution inputs; and sources of mercury and other heavy metal contamination from past mining activities. These problems are exacerbated by the sediment transport dynamics of this specific watershed. To address these needs, this project aims to construct three different types of green stormwater management systems in the Yuba Watershed. These techniques function to reduce runoff, erosion, and contamination of surface water, as well as help prevent flooding, turning stormwater problems into water supply assets by slowing runoff and allowing it to soak into the ground.
- C. Dams and Fish Passage Barriers** – Few things have such a fundamental impact on a river as a dam. Dams block a river's flow and can harm clean water, fish and wildlife, and recreation opportunities. American Rivers plays a leadership role in the removal of outdated dams and other stream barriers. American Rivers has historically focused on California's larger dams but is now expanding its barriers program to include smaller dams and instream barriers that also have a profound impact on key habitat in Sierra streams. Initial efforts for this program expansion will include working with AR staff to develop a plan to remove a dam and restore a stretch of tributary in the North Fork American Watershed. It may also include data collection and assessment of known barriers and the development of a prioritization protocol that will help guide future barrier removal efforts.
- D. Forest Health and Road Management** – The overall goal of this project is to protect watershed health and water quality by managing forests to reduce the threat of catastrophic wildfire and decommissioning and repairing eroding roads to reduce sediment inputs that contribute to pollution and impact river habitat.
- E. Deer Creek Tribute Trail and Restoration** – This project is in and around Deer Creek that runs through Nevada City. Goals include the completion of the nine mile trail system, outreach and education (including education material, geocaching and interpretive signage), and continuing the restoration component involving the removal of non-native vegetation and planting of natives.
- F. Instream Flow Protection and Improvement** – The overall goal of this project is to increase protection of instream flows necessary to sustain water quality, instream habitat, and ecosystem function in Sierra watersheds. Specific objectives in support of this goal are to: 1) Develop a strategy for identifying instream flow needs and opportunities in Sierra watersheds; 2) Improve capacity of stakeholders to protect instream flows by facilitating the development of a stakeholder forum and outreach materials; and 3) Develop materials that outline water rights acquisition processes and stream flow dedication approaches that are applicable to headwater streams. Ultimately, this project will contribute towards restoring and protecting the degraded creeks, streams, rivers and ecologically endemic aquatic life, and act as a model for the rest of the Sierra.

Member Service Plan Overview and Outcomes:

The 2015/2016 River Assessment and Restoration Assistant will work closely with the Headwaters Program team in the planning, design, implementation and evaluation of a range of projects focusing on

rivers and watersheds. Each major project and their respective tasks where the member will take an active role are detailed below.

Service Position Major Projects:

1. Watershed Restoration and Assessment:

- a. **Priority Project:** MONITORING AND RESTORATION OF YUBA MEADOWS. This project is being led by the South Yuba Citizens League, AmericanRivers partner host-site, and will present an opportunity for collaboration with SYRCL's members. SYRCL is in the process of planning for largescale restoration at multiple meadow sites in the upper Yuba Watershed. As part of this effort, they are conducting detailed hydrological, vegetation and greenhouse gas monitoring. The greenhouse gas monitoring is part of a larger Sierra-wide effort, of which American Rivers is a partner, to quantify the greenhouse gas reduction benefits of meadow restoration. American Rivers and SYRCL's SNAP members will conduct this monitoring approximately monthly throughout the field season. The member may also help with restoration activities that can be accomplished with hand labor at these sites.
 - i. **Projected Hours:** 100
 - ii. **Estimated Acres Restored:** 2
 1. **Acres Restored by Member (ONLY):** 0.5
- b. **Priority Project:** SIERRA MEADOW ASSESSMENT AND PRIORITIZATION FOR RESTORATION. In 2012 American Rivers and a group of meadow professionals developed a rapid method for assessing meadow condition, the Meadow Condition Scorecard. Since then, American Rivers has been employing this scorecard assessment method across entire watersheds and using the resulting data to determine the top priority sites for restoration work. This year, assessments may include meadows in the Carson, Truckee, and American and Pine Creek watersheds, and Sequoia National Park. The member will use GIS analysis to plan assessment fieldwork, will participate in assessments in the field, and will synthesize assessment results to develop restoration priorities. The member will also work to move forward restoration of identified priority sites through vetting stakeholders and work toward permitting, designing and implementing on-the-ground restoration.
 - i. **Projected Hours:** 150
 - ii. **Estimated Acres Restored:** 0
 1. **Acres Restored by Member (ONLY):** 0
- c. **Priority Project:** HOPE VALLEY AND ANALYZING THE ROLE OF BEAVER. This project is aimed at restoring a highly visible meadow on the West Fork Carson River and analyzing the role of beavers at the site and more broadly for meadow restoration throughout the Sierra. Since the project began in 2011, we have conducted a comprehensive assessment of Hope Valley Meadow and used this to develop robust conceptual and 50% technical designs. We completed permitting and are in the process of implementing large-scale restoration. In Hope Valley, beavers have had a significant influence on stream function and have contributed greatly to places where the channel morphology is improving, however there is concern about the ephemeral nature of these dams and whether the beaver population is appropriate for the site. Member will assist with ongoing pre-project monitoring in the field, including monitoring the effects of beaver in Hope Valley, and help develop information about the role of beaver in Hope Valley, as well

as how and where beaver can be used for restoration throughout the Sierra. In addition, the member will help organize willow planting with volunteers to restore bank stability on 3 acres.

i. **Projected Hours:** 100

ii. **Estimated Acres Restored:** 3 acres restored through planting of native, bank stabilizing species.

1. **Acres Restored by Member (ONLY):** 1

d. **Priority Project:** ELLIOT MEADOW. In 2015, AR implemented restoration activities at 20-acre Elliot Meadow, a Tahoe National Forest priority site on a tributary to the North Fork American River. The project repaired headcuts and removed encroaching conifers and invasive weeds. The member will assist with follow up monitoring and adaptive management, such as additional conifer and invasive removal.

i. **Projected Hours:** 20

ii. **Estimated Acres Restored:** 2 acres restored through removal of invasive species and conifers.

1. **Acres Restored by Member (ONLY):** 1

2. **Acres Restored by Member (ONLY):** 0.5

e. **Priority Project:** RESTORATION OF PRIORITY MEADOWS IN THE WALKER WATERSHED. This project will focus on restoration and road decommissioning in three priority meadow sites in the Walker watershed. This work will build on both American Rivers' meadow condition assessment work which identified these sites a priorities based on condition, and the Humboldt-Toiyabe National Forest's Travel Analysis Process which identified the roads as priorities for decommissioning. Activities will repair these meadows degraded hydrologic function and provide habitat benefits for fish and amphibians. The member will assist with permitting, pre-project monitoring, and designs, as well as on-the-ground decommissioning activities.

i. **Projected Hours:** 90

ii. **Estimated Acres Restored:** 3 acres restored

1. **Acres Restored by Member (ONLY):** 1

f. **Priority Project:** INSTREAM FLOW PROTECTION AND IMPROVEMENT. This project aims to identify opportunities for protecting and enhancing instream habitat through alterations in water use and water rights operated by the USFS and located in 7 National Forests throughout the Sierra. The member will assist the project lead through conducting water rights assessments and a GIS analysis of water diversion sites identified as sites that may be suited for instream flow dedications.

i. **Projected Hours:** 40

ii. **Estimated Acres Restored:** 5 acres restored by improved instream flow

1. **Acres Restored by Member (ONLY):** 0

g. **Priority Project:** DAMS AND FISH PASSAGE BARRIERS. AR is interested in identifying fish passage barriers in the Sierra and resources available to address these barriers (stakeholders, policies, financial, etc.). The member will conduct an assessment of fish passage barriers in the Sierra and potential for their removal. The resulting information will contribute to American Rivers' efforts to address small barriers in California. The member may also contribute toward AR's ongoing efforts to restore fish passage to waterways impounded by larger dams.

i. **Projected Hours:** 50

ii. **Estimated Acres Restored:** 0 acres restored

1. Acres Restored by Member (ONLY): 0

- h. Priority Project:** GREEN INFRASTRUCTURE: STORMWATER RETENTION IN THE SIERRA. When it rains on a parking lot, instead of soaking into the soil, stormwater rushes downstream, washing pollutants into our rivers and lakes. In the Sierra, this results in both a drier headwaters, and downstream flood flows tainted with metals and other contaminants. Green infrastructure encompasses novel solutions to capture and treat stormwater naturally, where it falls. American Rivers is working on a stormwater management and floodplain restoration project in Grass Valley that will provide local water quality and flood protection benefits and bolster a grassroots campaign to demonstrate stormwater management techniques in the Sierra Nevada. The AmeriCorps member will lead water quality monitoring, and outreach for the project, and work on materials and strategies for scaling up this work in the Wolf Creek watershed and in the Sierra region more broadly, including demonstration of a suitability analysis for green infrastructure.
- i. Projected Hours:** 240
 - ii. Estimated Acres Restored:** 5 acres stormwater captured sustainably

1. Acres Restored by Member (ONLY): 1

- i. Priority Project:** RIVER CLEAN-UP. Member will be involved with one main river clean up event held in conjunction with the Great Sierra River Cleanup, a program of the Sierra Nevada Conservancy. The Clean-Up Day has stewarded sites ranging from the high Sierra mountains of Donner Summit to Parks Bar on the Lower Yuba, covering over 90 miles of shoreline. With more than half a million visitors each year to the South Yuba River alone, enormous amounts of litter are discarded over the summer months. To address these recreational impacts, SYRCL (AR's host-site partner) has coordinated 5,500 volunteers who have removed 126,000 pounds of trash and recycling, rebuilt trails and removed invasive species during the three-hour cleanup day each September. AmeriCorps members will participate in the clean-up and serve as site supervisors at sites along the South Yuba. Members will also participate in additional clean-ups on the American River in conjunction with the American River conservancy, or organize additional clean-ups.
- i. Projected Hours:** 20
 - ii. Estimated Acres Restored:** 10 acres restored

1. Acres Restored by Member (ONLY): 5

- j. Priority Project:** DEER CREEK TRIBUTE TRAIL AND RESTORATION. The Deer Creek Tribute Trail is an on-going multi-phase project to create a trail along Nevada City's local waterway, Deer Creek. Depending on grant funding, this year may involve a new phase of the project, which would involve trail building and implementing vegetation management activities along Deer Creek aimed at reducing non-native invasive species, improving forest health and structure, and improving resiliency to wildfire. The member will also participate in various additional vegetation management activities throughout the Deer Creek watershed, including volunteer days to remove invasive species like Himalayan blackberry and scotch broom
- i. Projected Hours:** 20
 - ii. Estimated Acres Restored:** 5 acres of improved forest habitat and cleared of litter.

1. Acres Restored by Member (ONLY): 0.5

- k. Priority Project:** TAHOE NATIONAL FOREST ROAD MANAGEMENT. Forest roads are the most significant source of sediment pollution for rivers flowing through forested landscapes. American Rivers has been working in collaboration with the Tahoe National

forest to inventory forest road conditions and determine the most significant road-related erosion problems. We are now working to use this inventory to prioritize sites for projects designed to improve road condition and reduce their impacts to water quality and habitat. The SNAP member will assist in developing this prioritization and assist with project planning and permitting, including site visits to develop conceptual designs for repair and restoration.

i. **Projected Hours:** 40

ii. **Estimated Acres Restored:** 0

1. **Acres Restored by Member (ONLY):** 0

I. Watershed Restoration and Assessment Totals:

i. **Total Projected Hours:** 860

ii. **Total Estimated Acres Restored:** 34

1. **Total Member Acres Restored:** 9.5

2. Watershed Education and Outreach

a. **Priority Project:** GREEN INFRASTRUCTURE: STORMWATER SOURCE CONTROL IN THE SIERRA. The AmeriCorps member will continue to implement and shape the Stormwater Source Control program that began in 2012/2013. This program encourages homeowners to manage their stormwater runoff contribution through downspout disconnection and rain barrel installation. The member will educate and outreach to landowners by delivering presentations, tabling events, and collaborating with local environmental groups. The member will also work on scaling up the source control program to other foothill communities.

i. **Projected Hours:** 100

ii. **Estimated Outcomes:** (Complete one of the following for this project)

1. **Presentations** (Presentations and/or Service Learning projects of at least 30 minutes in which the member will be able to query participants with a pre and post-test): 2 presentations, 30 people

2. **Outreach** (Educational Outreach in which members will be able to ask participants if the outreach conducted increased their level of understanding): 3 outreach events, 30 people

b. **Priority Project:** MEADOW RESTORATION OUTREACH. Mountain Meadows in the Sierra Nevada are an under-utilized and poorly understood resource that has many aesthetic, biological and natural infrastructure values. Building on the results of our Watershed-wide project efforts to document, identify and assess the health of mountain meadows in several major watersheds in the Sierra – the Yuba, Mokelumne, Walker, American, Kern, and Pine Creek, the Sierra Meadows Outreach Program will involve further engagement of citizen volunteers and development of outreach materials. The Member will work alongside American Rivers and USFS staff to assess priority meadows and prioritize projects for implementation. Meadow restoration projects may include Hope Valley, Indian Valley, Elliot, Ackerson, Shell, Bean, China Camp and Walker watershed meadows. The member will assist the project team in developing Meadows outreach materials and outreach to stakeholder groups and community members.

i. **Projected Hours:** 150

ii. **Estimated Outcomes:** (Complete one of the following for this project)

1. **Presentations:** The member will make at least 2 presentations to group of interested stakeholders. 2 presentations, 30 people

2. **Outreach:** (Educational Outreach in which members will be able to ask participants if the outreach conducted increased their level of understanding) 3 outreach events. 30 people. Outreach and education materials describing projects and benefits of participation developed and disseminated to local stakeholder groups; at least one blog on project posted; one story about the project published in local or regional paper.

- c. **Priority Project: OUTREACH FOR AMERICAN RIVERS CALIFORNIA REGIONAL OFFICE.** Building on previous efforts by SNAP members, the member will work to refine and carry out the regional office's outreach plan. This activity involves standing back and looking at how outreach and communication works in the American Rivers California Regional Office, looking at previously developed outreach strategies and efforts and working to make outreach and communication more effective in the Sierra Region. This activity will involve networking options (blogs, Facebook, etc.), updating the website, on the ground outreach to community members and stakeholders and other novel approaches to outreach about the regional office's work. Efforts would include working with AR staff to refresh and update web materials, coordinate a blogging schedule for the regional office, take, edit and upload regular video clips, etc.

- i. **Projected Hours:** 100

- ii. **Estimated Outcomes:** (Complete one of the following for this project)

1. **Presentations** (Presentations and/or Service Learning projects of at least 30 minutes in which the member will be able to query participants with a pre and post-test): 0
2. **Outreach** (Educational Outreach in which members will be able to ask participants if the outreach conducted increased their level of understanding): The member will develop outreach and education materials describing the work of American Rivers California Office, particularly focused on the Sierra. This should include coordinating at least 10 blogs, 1 story in local or regional papers/radio, 2 new or updated brochures or posters, and posting photos to Facebook and other relevant outreach outlets. Also, the member will assist in updating Sierra/California related pages on AR's website as needed. It is impossible to accurately quantify the number of people reached through this type of outreach, but we can estimate that more than 5,000 people will visit the California Office portion of AR's website over the year, and more than 1,000 people visit the AR's homepage where the member's blogs will appear. 1 outreach events, 10 people

- d. **Watershed Education Totals:**

- i. **Total Projected Hours:** 350

- ii. **Total Estimated Outcomes:**

1. **Presentations:** 4 presentations, 60 people
2. **Outreach:** 7 outreach events, 70 people

3. **Volunteer Recruitment and Support:**

- a. **Priority Project: ASSESSMENT OF SIERRA MEADOWS.** Member will recruit and help train and coordinate a team of citizen volunteers to work alongside American Rivers and USFS staff to assess condition and health of meadows in the Carson, Truckee and

Pine Creek watersheds. Monitoring of meadow restoration projects may include Hope Valley, Bean Meadow and other current restoration projects in need of pre- and post-project monitoring

i. Projected Hours: 75

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 10

2. Total # of Hours Served by Volunteers: 80

b. Priority Project: RESTORATION OF SIERRA MEADOWS. Member will recruit volunteers and help organize at least 2 events involving hands on meadow restoration. Activities may include planting bank stabilizing species like willows, replacing sod, and seeding.

i. Projected Hours: 50

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 30

Volunteer Recruitment and Support Totals:

iii. Total Projected Hours: 125

iv. Total Estimated Outcomes:

1. Number of Volunteers Recruited: 15

2. Total # of Hours Served by Volunteers: 110

4. Resource Attainment: (Please note that members can complete no more than 170 hours of Resource Attainment Activities. Resource Attainment activities must raise money that goes directly to member service projects. Members may NOT raise general funds, write federal grants, or write grants to cover your site's cash match.)

a. Priority Project: SIERRA MEADOW ASSESSMENT AND PRIORITIZATION FOR RESTORATION. The member may pursue a small non-federal grant to pursue funding for restoration of meadow sites that emerge as a result of the members' meadow condition assessments in the Walker, Kern, Truckee, Carson or American watersheds. They may also pursue software or small grant opportunities that would benefit the watershed-wide assessment project, such an annual grant for Google Earth Pro that helps with GIS meadow assessments.

i. Projected Hours: 50

ii. Estimated Outcomes:

1. Number of Donations (Grants, Services, Goods, etc.): 2

2. Dollar Amount of Donation: \$30,000

b. Priority Project: GREEN INFRASTRUCTURE: STORMWATER RETENTION IN THE SIERRA. In order to gather information from other programs and provide outreach materials to support the education and outreach portion of this project the AmeriCorps member will solicit information from outside organizations. Additionally, donations and small grants may be requested to cover travel costs and for outreach materials and supplies needed to conduct outreach efforts. It is anticipated that American Rivers staff will apply for grants to implement projects directly related to recommendations made in a

regional stormwater plan that will be developed by the AmeriCorps member. The AmeriCorps member will have the opportunity to gain experience in grant proposal writing directly related to their program area by participating in the writing of at least one project grant proposal.

- i. **Projected Hours:** 50
 - ii. **Estimated Outcomes:**
 - 1. **Number of Donations (Grants, Services, Goods, etc.):** 2
 - 2. **Dollar Amount of Donation:** \$20,000
 - c. **Resource Attainment Totals:**
 - i. **Total Projected Hours:** 100
 - ii. **Total Estimated Outcomes:**
 - 1. **Number of Donations:** 4
 - 2. **Total Dollar Amount of Donations:** \$50,000
- 5. Member Training and Development:** (Please note that members can complete no more than 240 hours of training.)
- a. **SNAP Specific Trainings:** Required SNAP Member Orientation, Spring Training and Service Projects, Fall Training and Sierra Nevada Alliance Annual Conference, and Graduation
 - i. **Projected Hours:** 130 Hours
 - b. **Site Specific Orientation:** 1) General Organization – Mission, organizational structure, office operations and procedures, project partners and related organizations; 2) Overview of all AR California projects; 3) In-depth review of member service projects – current status, goals and deliverables, field visits, member role per service plan.
 - i. **Projected Hours:** 30 Hours
 - c. **Site Specific Training:** Members are encouraged to identify trainings/conferences of interest – scientific, field skills, professional development, etc.
 - i. **Projected Hours:** 80 Hours
 - d. **Member Training and Development Totals:**
 - i. **Total Projected Hours:** 240 Hours
- 6. Total Hours:** 1685
- 7. Percentage Totals:**
- a. **Watershed Restoration and Assessment:** 52%
 - b. **Watershed Education and Outreach:** 21%
 - c. **Volunteer Recruitment and Support:** 7%
 - d. **Resource Attainment:** 6%
 - e. **Member Training and Development:** 14%