



Position Description

Sierra Nevada AmeriCorps Partnership

Position Title: River Scientist
Host Site: Sierra Streams Institute
Site Supervisor: Justin Wood
Contact: 530-265-6090 x204, justin@sierrastreamsinstitute.org

Position Location: Nevada City, California.

Sierra Streams Institute is located in Nevada City, California, with our work primarily occurring in the Yuba and Bear River watersheds. Nevada City is located in the foothills of the Sierra Nevada mountains in Northern California at 2500' elevation, one hour west of north Lake Tahoe and three hours east of the Pacific coast. During the Gold Rush, Nevada City was a thriving hub of mining activity, and it remains one of the liveliest, friendliest and most beautiful of all California Gold Rush towns with a remarkably rich cultural life. It is considered to be one of the best preserved towns in the west. In addition to its rich history and considerable natural beauty, Nevada City boasts a thriving arts and entertainment community with fine restaurants, a vibrant live music scene, galleries, museums, and theater. Nevada City is a Mecca for outdoors enthusiasts, with abundant recreational opportunities such as backpacking, cycling, and kayaking in the many rivers and lakes, as well as skiing and rock climbing in the nearby mountains. The climate is characterized by warm, dry summers, and wet winters with periodic snowstorms and lots of winter sunshine.

Organization Description: Sierra Streams Institute is a watershed science organization based in Nevada City, California, dedicated to increasing watershed stewardship capacity throughout the Sierra Nevada region and beyond. Founded in 1996 as Friends of Deer Creek, SSI has grown to become an important voice in the regional scientific community. We work with local, state, and federal agencies as well as universities and community groups to find solutions to the problems that afflict Deer Creek and other watersheds (Yuba, Bear) throughout the region that share the challenges resulting from a century and a half of gold mining, development, and agriculture. SSI's emphasis on rigorous science, data collection and community engagement provides the basis for restoration decisions that are made on behalf of Sierra watersheds, and makes us a valuable partner of local and state government agencies.

Program Description: Sierra Streams Institute focuses on the following program areas: Watershed Restoration, Science Education, Research, Training, Lab and Testing Services, and Friends of Deer Creek. Please visit www.sierrastreamsinstitute.org for a description of these program areas.

Position Description: The River Scientist will work with staff scientists and citizen scientist volunteers and interns on projects throughout the Deer Creek, Yuba River, Bear River, and surrounding watersheds. He/she will assist with scientific projects including: monthly water quality monitoring, macroinvertebrate and algae collection, and annual habitat assessments; identifying macroinvertebrates and/or algae and diatoms in the lab and assisting citizen scientists in the lab; using algae, macroinvertebrates, birds, fish, amphibians, plants, and mammals as indicators of health and restoration success; processing water quality, nutrient, bacteria, and/or algae samples in the lab and assisting citizen scientists in the lab; developing maps of monitoring and restoration sites using GIS, using GIS to analyze spatial data, and using GIS to make maps for outreach and presentations; data entry, data and statistical analysis of various datasets, report writing; maintaining stream

flow gauging stations; monitoring the results of restoration projects; working with the Nisenan tribe on restoration projects; helping teach students, adults, and citizen scientists with the watershed science education program; conducting research and outreach to community members about our projects; conducting outreach to citizen scientists, recruiting and supporting citizen scientists; participating in restoration projects including the Hirschman's Pond Healthy Forest Initiative, Lower Deer Creek Revegetation Project and Sheatsley Meadow Restoration, Deer Creek Salmon and Steelhead Habitat Restoration Project, Scotch Broom Challenge events, and the Great Sierra River Clean-Up; helping to plan and analyze data for abandoned mine clean-up projects; recruit and organize stakeholders and volunteers to participate in watershed monitoring and restoration projects; outreach and presentations to community groups, citizen scientists, and stakeholders; assist with projects that evaluate the link between environmental and human health; help organize the Sierra College Science Speaker series; assist with monthly newsletter publication and volunteer coordination.

Required Qualifications:

- College degree with a focus and interest in biology, ecology, hydrology, geology, chemistry, environmental science or a related field.
- Ability to work independently, with other staff, and a diverse group of volunteers and interns.
- Strong written and oral communication skills; strong computer and organizational skills.
- Knowledge of the scientific method, strong data and statistical analysis skills.
- Ability to hike through creeks and vegetation (occasionally poison oak or Himalayan blackberry) and be on your feet for up to 10 hours a day to perform monitoring and habitat assessments. Ability to carry monitoring equipment that weighs up to 50 lbs.
- Ability to work in the office sitting at a computer station, or in the lab sitting and/or standing to process samples and/or working at a microscope, for up to 8 hours a day.
- Willingness to occasionally work early in the morning (before 6:00A.M.), in the evening (after 6:00P.M.), and on weekends to complete monitoring and assessment projects (such as amphibian, bird, or mammal surveys).
- Ability to drive for up to 8 hours a day to access monitoring sites and required trainings across the Sierra Nevada.

Desired Qualifications:

- Experience using data analysis and statistical software packages (R, SPSS, JMP, Sigma Plot, PCORD, Minitab, etc) and ArcGIS software.
- Experience performing habitat assessments, conducting algae and macroinvertebrate sampling, conducting water quality and other monitoring, and processing samples in a lab.
- Experience leading groups in the field and/or teaching in a classroom or field setting.
- Experience with on-the-ground restoration projects that involve the local community.

Additional Benefits: Perks of serving as an AmeriCorps Member at Sierra Streams Institute include:

- Live and work in Nevada City, in close proximity to abundant recreational opportunities including skiing and snowboarding, mountain biking, kayaking, swimming, and backpacking.
- Work with scientists in a great environment to develop professional skills.
- Have the opportunity to lead projects, and to work with and manage volunteers and interns.
- Get assistance with settling in to the area, as needed, from our staff and volunteers.

Website: www.sierrastreamsinstitute.org



Member Service Plan Sierra Nevada AmeriCorps Partnership

Host Site: Sierra Streams Institute
Position Title: River Scientist
Designated Site Supervisor: Justin Wood
Term of Service: Mid-October 2016 – Mid-September 2017, exact dates TBA

Organizational Background: Sierra Streams Institute is a watershed science organization based in Nevada City, California, dedicated to increasing watershed stewardship capacity throughout the Sierra Nevada region and beyond. Founded in 1996 as Friends of Deer Creek, SSI has grown to become an important voice in the regional scientific community. We work with local, state, and federal agencies as well as universities and community groups to find solutions to the problems that afflict Deer Creek and other watersheds (Yuba, Bear) throughout the region that share the challenges resulting from a century and a half of gold mining, development, and agriculture. SSI's emphasis on rigorous science, data collection and community engagement provides the basis for restoration decisions that are made on behalf of Sierra watersheds, and makes us a valuable partner of local and state government agencies.

Organizational/Program Goals 2016-17: Sierra Streams Institute focuses on the following program areas: Watershed Restoration, Watershed Science Education, Research, Human Health/Environment, Training, Lab and Testing Services. The following lists the organizational and program goals for 2016-17:

- Summer Learning Academy: Sierra Streams Institute is partnering with Nevada County to offer a month-long summer school program for children in the region who are at risk of falling behind in school. These children will be selected from local K-5 classes to attend the "Adventures in Learning" program. Sierra Streams Institute education staff are developing science and PE materials and implementing them during the second year of this program.
- Science Education Program: Sierra Streams Institute has offered a science education program for students in the region since 2011, and will continue to provide these programs to schools and adults in 2016-17.
- Watershed monitoring and restoration projects: In 2016-17 we will continue restoration of meadow and riparian areas downstream of Lake Wildwood at the Sheatsley property and begin assessments and planning for hydrologic restoration of a meadow on Deer and Squirrel Creeks; continue assessments and healthy forest and land management activities at Hirschman's Pond in Nevada City; implement a fourth year of abandoned mine lands clean-up projects in Nevada City at Providence Mine; continue organizing Scotch Broom pull events at restoration projects throughout the watershed; help stakeholders in the Bear River watershed develop and implement a restoration plan; and continue our on-going citizen based monthly monitoring program at 18 sites in the Deer Creek watershed and 10 sites in the Bear River watershed.
- Human and environmental health research: Sierra Streams Institute is engaged in several projects

aimed at evaluating impacts to public health, including bacteria monitoring and remediation, abandoned mine land cleanup, a phytoremediation project at an abandoned mine site, and research into the health effects of living amongst abandoned mine lands. We plan to continue and expand upon these research projects in 2016-17.

- Citizen Science Program: Sierra Streams Institute will continue our successful citizen science monitoring program in the Deer Creek watershed, ongoing since 2000. As part of this program, citizen scientists work with staff members to monitor water quality, macroinvertebrates, algae, birds, mammals, amphibians, vegetation, participate in a phenology project, and much more. In 2016-17, in addition to continuing our long term monitoring projects in the Deer Creek watershed, we will continue work with local stakeholders in the nearby Bear River watershed and expand upon baseline water quality monitoring to include other assessments.

- Nisenan Tribe Partnership: Sierra Streams Institute are working with the Nisenan tribe of the Nevada City Rancheria to develop a curriculum focusing on native restoration practices and natural history education. In addition, we will continue to collaborate on projects that focus on ecological and cultural restoration of important Nisenan sites.

- Outreach: Sierra Streams Institute will continue to present at conferences, local stakeholder group meetings, State trainings, and government meetings to discuss the results of our work. In 2016-17 we will continue collaborating with the City, County, State, local groups including the Gold Country Fly Fishers, Audubon, Lake Wildwood Lake Committee, Bear Yuba Land Trust, and South Yuba River Citizens League, and plan to publish the results of some of our scientific projects. In addition we will continue to partner with Sierra College to offer the Sierra College Science Speaker Series in fall 2016 and spring 2017.

Member Service Plan Overview and Outcomes: The River Scientist will work with staff scientists and citizen scientist volunteers and interns on projects throughout the Deer Creek, Yuba and Bear River watersheds. He/she will assist with scientific projects including: monthly water quality monitoring, macroinvertebrate and algae collection, and annual habitat assessments; identifying macroinvertebrates and/or diatoms in the lab and assisting citizen scientists in the lab; using algae, macroinvertebrates, birds, bats, fish, amphibians, and mammals as indicators of health and restoration success; processing water quality, nutrient, bacteria, and/or algae samples in the lab and assisting citizen scientists in the lab;; developing maps of monitoring and restoration sites using GIS, using GIS to analyze spatial data, and using GIS to make maps for outreach and presentations; data and statistical analysis of various datasets;; monitoring the results of restoration projects; working with the Nisenan tribe on restoration projects; helping teach students, adults, and citizen scientists with the watershed science education program; conducting research and outreach to community members about our projects; conducting outreach to citizen scientists, recruiting and supporting citizen scientists; participating in restoration projects including the Lower Deer Creek Revegetation Project, Sheatsley Meadow Restoration, Deer Creek Salmon and Steelhead Habitat Restoration Project, Hirschman's Pond Healthy Forest Initiative, Environs Clean-Up, Scotch Broom Challenge events, and the Great Sierra River Clean-Up; helping to plan and analyze data for abandoned mine clean-up projects; recruit and organize stakeholders and volunteers to participate in a watershed monitoring and restoration group for the Bear River watershed; outreach and presentations to community groups, citizen scientists, and stakeholders; help organize the Sierra Science Speaker series; assist with monthly newsletter publication.

Service Position Major Projects:

1. Watershed Restoration and Assessment:

a. Priority Project: Bear River Watershed Group. The member will help with development of a restoration plan for Bear River watershed; monitor sites in the Bear River watershed and train volunteers on monitoring protocols; outreach to stakeholders in the Bear River watershed.

i. Projected Hours: 200

ii. Estimated Acres Restored: 0 acres restored, 10 sites monitored/assessed

1. Acres Restored by Member (ONLY): 0

b. Priority Project: Deer Creek Salmon and Steelhead Habitat Restoration Project. The member will assist with pre and post project monitoring of a salmon and steelhead habitat restoration project. The member will help monitor the Lake Wildwood drawdown and low flow releases to determine influence on fish populations.

i. Projected Hours: 25

ii. Estimated Acres Restored: 0 acres restored

1. Acres Restored by Member (ONLY): 2

c. Priority Project: Sheatsley Meadow Restoration. The member will assist with ongoing non-native species removal and planting of native vegetation along Deer Creek downstream of Lake Wildwood Reservoir; monitor results of restoration efforts through vegetation and animal surveys; recruit and support volunteers for removal and replanting efforts; assist with monitoring and assessments of the meadow, and help plan for the hydrologic restoration of the meadow.

i. Projected Hours: 100

ii. Estimated Acres Restored: 2 acres restored, 5 acres monitored/assessed

1. Acres Restored by Member (ONLY): 2

d. Priority Project: Hirschman's Pond Healthy Forest Initiative. The member will assist with monitoring and assessments as part of the ongoing forest management effort at Hirschman's Pond; assist with land management and restoration activities including Scotch Broom removal.

i. Projected Hours: 100

ii. Estimated Acres Restored: 85 acres monitored/assessed

1. Acres Restored by Member (ONLY): 2

e. Priority Project: Environs Clean-Up. Work with staff geologist to assess the Environs parcel in Nevada City; analyze assessment data; assist with phytoremediation research project; assist with project implementation in 2017.

i. Projected Hours: 25

ii. Estimated Acres Restored: 40 acres monitored/assessed, 2 acres restored

1. Acres Restored by Member (ONLY): 4

f. Priority Project: Teaching and Hands-On Restoration. Teach students in the classroom and field about watershed science, mining, and restoration. Lead students in a hands-on restoration, monitoring, and assessment project. Work with the Nisenan Maidu tribe on monitoring and restoration projects. Assist with teaching and lesson planning for the California Naturalist class in spring 2017.

i. Projected Hours: 90

ii. Estimated Acres Restored: 2 acres restored

1. Acres Restored by Member (ONLY): 1

g. Priority Project: Citizen Science Monitoring Program. Participate in all aspects of the Friends of Deer Creek and Bear River Watershed Group monitoring programs, including water quality monitoring, algae and macroinvertebrate sampling, physical and biological habitat

assessments, hydrological and geomorphological monitoring, bird surveys, bat surveys, mammal trapping, amphibian surveys, vegetation surveys and fish electroshocking. Recruit and coordinate volunteers to participate in monitoring and assessment activities; support citizen scientists during monitoring and assessments. Educate volunteers and community members about the importance of monitoring and assessments for evaluating the success of restoration projects. Conduct data and statistical analysis on monitoring data, integrating numerous datasets to evaluate the success of restoration or impacts to aquatic health as a result of reservoir releases.

i. Projected Hours: 220

ii. Estimated Acres Restored: 50 sites monitored/assessed.

1. Acres Restored by Member (ONLY): 0

h. Priority Project: California Breast Cancer Research Program (CBCRP) project. The member will assist with the CBCRP project, to evaluate the impacts of mining contaminants on cancer rates in Nevada County; outreach to participants and citizens about the project; assist with the assessment, sample collection, and data analysis.

i. Projected Hours: 25

ii. Estimated Acres Restored: 0 acres restored

1. Acres Restored by Member (ONLY): 0

i. Priority Project: Deer Creek Environs Project. The member will help with long-term monitoring and assessments at the Environs property in Nevada City, including leading phenology plant walks.

i. Projected Hours: 40

ii. Estimated Acres Restored: 0 acres restored, 40 acres monitored/assessed

1. Acres Restored by Member (ONLY): 0

j. Priority Project: Great Sierra River Clean Up. Organize a clean-up event in coordination with the Great Sierra River Clean-Up in September 2017, to clean up a section of creek in the Yuba or Bear River watersheds. Recruit and coordinate volunteers to participate in the event; educate community members about the importance of the event.

i. Projected Hours: 20

ii. Estimated Acres Restored: 3 acres restored

1. Acres Restored by Member (ONLY): 1

k. Priority Project: Scotch Broom Challenge. Participate in local Scotch Broom removal events during the spring of 2017; organize at least two Scotch Broom removals at sites in the Deer Creek watershed; recruit volunteers to participate in the Scotch Broom challenge.

i. Projected Hours: 20

ii. Estimated Acres Restored: 5 acres restored

1. Acres Restored by Member (ONLY): 2

Watershed Restoration and Assessment Totals:

Total Projected Hours: 865

Total Estimated Acres Restored: 14 acres restored; 60 sites and 165 acres monitored/assessed

Total Member Acres Restored: 10 acres restored

2. Watershed Education and Outreach

a. Priority Project: Bear River Watershed Group. The member will work with landowners, stakeholders, and monitoring groups as part of the Bear River Watershed Group; outreach to

stakeholders in the Bear River watershed at venues including the Yuba Bear Watershed Council and Bear River Watershed Group meetings.

i. Projected Hours: 100

ii. Estimated Outcomes:

- 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): 25
- 2. Outreach** (Educational Outreach in which members will be able to ask participants if the outreach conducted increased their level of understanding): 25

b. Priority Project: Deer Creek Salmon and Steelhead Habitat Restoration Project. The member will assist with planning a habitat restoration project for Chinook salmon and steelhead, and assist with pre and post project monitoring. Outreach to stakeholders, including the Gold Country Fly Fishers, about the project.

i. Projected Hours: 10

ii. Estimated Outcomes:

- 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): 10

c. Priority Project: Sheatsley Meadow Restoration. The member will outreach to stakeholders about the project.

i. Projected Hours: 10

ii. Estimated Outcomes:

- 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): 10

d. Priority Project: Hirschman's Pond Healthy Forest Initiative. The member will assist with outreach to the community about the project.

i. Projected Hours: 30

ii. Estimated Outcomes:

- 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): 10
- 2. Outreach** (Educational Outreach in which members will be able to ask participants if the outreach conducted increased their level of understanding): 10

e. Priority Project: Environs Clean-Up. Assist with development of outreach and educational materials, including maps and interpretive signage, for the Environs Clean-Up project.

i. Projected Hours: 30

ii. Estimated Outcomes:

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): 10

f. Priority Project: Teaching and Hands-On Restoration. Teach students in the classroom and field about watershed science, mining, and restoration. Assist with teaching and lesson planning for the California Naturalist class in spring 2017.

i. Projected Hours: 100

ii. Estimated Outcomes:

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): 15

2. Outreach (Educational Outreach in which members will be able to ask participants if the outreach conducted increased their level of understanding): 50

g. Priority Project: Citizen Science Monitoring Program. Educate volunteers and community members about the importance of monitoring and assessments for evaluating the success of restoration projects; educate and train citizen scientists about watershed monitoring and assessment.

i. Projected Hours: 100

ii. Estimated Outcomes:

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): 25

h. Priority Project: California Breast Cancer Research Program (CBCRP) project. The member will conduct outreach to participants and citizens about the project, and educate community members about the results of the project.

i. Projected Hours: 15

ii. Estimated Outcomes:

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): 10

i. Priority Project: Deer Creek Environs Project. The member will help with long-term monitoring and assessments at the Environs property in Nevada City; educate citizen scientists about the phenology project and climate change.

i. Projected Hours: 15

ii. Estimated Outcomes:

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): 10

j. Priority Project: Great Sierra River Clean Up. Organize a clean-up event in coordination with the Great Sierra River Clean-Up in September 2017, to clean up a section of creek in the Yuba or Bear River watersheds. Recruit and coordinate volunteers to participate in the event; educate community members about the importance of the event.

i. Projected Hours: 15

ii. Estimated Outcomes:

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): 5

k. Priority Project: Scotch Broom Challenge. Participate in local Scotch Broom removal events during the spring of 2017; educate volunteers about Scotch Broom and invasive species; recruit volunteers to participate in the Scotch Broom challenge.

i. Projected Hours: 15

ii. Estimated Outcomes:

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): 10

Watershed Education Totals:

Total Projected Hours: 440

Total Estimated Outcomes:

Presentations: 50 people

Outreach: 175 people

3. Volunteer Recruitment and Support:

a. Priority Project: Bear River Watershed Group. The member will assist with recruitment and support of citizen scientists for the watershed group; train and support citizen scientists on monitoring and assessment techniques.

i. Projected Hours: 50

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 15

2. Total # of Hours Served by Volunteers: 100

b. Priority Project: Deer Creek Salmon and Steelhead Habitat Restoration Project. Recruit volunteers to help with long-term project monitoring; support and train volunteers in the field on monitoring techniques.

i. Projected Hours: 10

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 25

c. Priority Project: Sheatsley Meadow Restoration. The member will recruit and support volunteers for removal and replanting efforts; work with citizen scientists on monitoring and assessments of the meadow.

i. Projected Hours: 25

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 100

d. Priority Project: Hirschman's Pond Healthy Forest Initiative The member will work with volunteers to monitor and assess Hirschman's Pond; recruit and support volunteers for forestry management projects including invasive species removal.

i. Projected Hours: 10

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 50

e. Priority Project: : Environs Clean-Up.

i. Projected Hours: 0

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 0

2. Total # of Hours Served by Volunteers: 0

f. Priority Project: Teaching and Hands-On Restoration. Provide support to volunteer educators; recruit and support educators for the California Naturalist program; recruit volunteer speakers for the Sierra College Science Speaker Series.

i. Projected Hours: 40

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 50

g. Priority Project: Citizen Science Monitoring Program. Recruit and coordinate volunteers to participate in monitoring and assessment activities; support citizen scientists during monitoring and assessments.

i. Projected Hours: 75

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 20

2. Total # of Hours Served by Volunteers: 100

h. Priority Project: California Breast Cancer Research Program (CBCRP) project. The member will assist with the CBCRP project, to evaluate the impacts of mining contaminants on cancer rates in Nevada County; recruit volunteers to participate in human health studies.

i. Projected Hours: 15

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 10

i. Priority Project: Deer Creek Environs Project. The member will help with long-term monitoring and assessments at the Environs property in Nevada City, including leading phenology plant walks. Recruit volunteers to participate in spring phenology walks; support volunteers during phenology walks.

i. Projected Hours: 15

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 20

j. Priority Project: Great Sierra River Clean Up. Recruit and coordinate volunteers to participate in the event; educate community members about the importance of the event.

i. Projected Hours: 10

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 25

k. Priority Project: Scotch Broom Challenge. Participate in local Scotch Broom removal events during the spring of 2017; recruit volunteers to participate in the Scotch Broom challenge; provide training and support to volunteers during Scotch Broom removals.

i. Projected Hours: 10

ii. Estimated Outcomes:

1. Number of Volunteers Recruited: 5

2. Total # of Hours Served by Volunteers: 30

Volunteer Recruitment and Support Totals:

Total Projected Hours: 260 hours

Total Estimated Outcomes:

Number of Volunteers Recruited: 60

Total # of Hours Served by Volunteers: 510 hours

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: Grants/goods for Member Projects and Resources. Members will be encouraged to write grants and seek donations that will benefit their service projects.

i. Projected Hours: 40

ii. Estimated Outcomes:

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

2. Dollar Amount of Donation: \$1000

Resource Attainment Totals:

Total Projected Hours: 40 hours

Total Estimated Outcomes:

1. Number of Donations: 1

2. Value of Donations: \$1,000

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

b. Site Specific Orientation: Orientation to Sierra Streams Institute. Tour of office, lab, and classroom; introductions to the staff, volunteers, and interns; office policies and procedures; attendance at November 2015 board meeting to meet the board of directors; tours of the monitoring and restoration sites; orientation and training on member projects.

i. Projected Hours: 25

- c. **Site Specific Training:** Monitoring and Assessment Trainings. Members will receive training from staff and volunteers on all of the monitoring and assessment protocols they will be using throughout the year.

- i. **Projected Hours:** 50

Member Training and Development Totals:

Total Projected Hours: 205 hours

6. Total Hours: 1,810

7. Percentage Totals:

- a. **Watershed Restoration and Assessment:** 47.8%
- b. **Watershed Education and Outreach:** 24.3%
- c. **Volunteer Recruitment and Support:** 14.4%
- d. **Resource Attainment:** 2.2%
- e. **Member Training and Development:** 11.3%