Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Sierra Nevada Network Lake Monitoring and Water Chemistry

Type of Project: Technical Assistance
Discipline: Natural
Funding Agency: National Park Service
Other Partners/Cooperators: University of Colorado at Boulder
Effective Dates: June 1, 2011 – September 30, 2016
Funding Amount: $19,854 [FY12: $13,015; FY11: $6,740]

Investigators and Agency Representative:
NPS Contact: Alice Chung-MacCoubrey, NPS, Sierra Nevada I&M Network, 47050 Generals Highway, Three Rivers, CA 93271, 559-565-3788, Alice_Chung-MacCoubrey@nps.gov

Investigator: Dr. Mark Williams, INSTAAR, University of Colorado at Boulder, 1560 30th Street, rm 207, Boulder CO USA 80309; 303 492-8830; markw@snobear.colorado.edu

Researcher: Christine Siebold, Institute of Arctic and Alpine Research, University of Colorado at Boulder, Research Lab 1, Room 206, 1560 30th Street, Boulder, Colorado 80303, (303) 735-6336; Christine.Seibold@colorado.edu

Project Abstract: Sierra Nevada Inventory and Monitoring Network (SIEN) will work collaboratively with the Kiowa Lab of INSTAAR and CU-Boulder to process SIEN water chemistry samples. SEIN and the PIs have a common interest in the broad scale ecological health of surface waters in the western U.S. The national parks in the Sierra Nevada include some of the most dilute surface water in the western U.S. and collaborating on water chemistry and ecological analyses allows us to help characterize the range of conditions in the parks and across the western U.S. Furthermore, data from the SIEN lakes monitoring program will be used to assist in the development of nutrient reference values that may provide a benchmark for comparison of all high alpine lakes in the region.

Outcomes with Completion Dates: September 30, 2016

Keywords: Lake monitoring, water chemistry, Sierra Nevada Inventory and Monitoring Network, University of Colorado at Boulder, Institute of Arctic and Alpine Research