

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Monitoring water quality and quantity in Bighorn Canyon NRA: Seeps, springs and river and stream locations

Type of Project: Technical Assistance

Discipline: Natural

Funding Agency: National Park Service

Other Partners/Cooperators: Montana State University

Effective Dates: 2/1/2007 - 12/31/2008

Funding Amount: \$35,147

Investigators and Agency Representative:

NPS Contact: Cathie Jean, Greater Yellowstone Network, I & M Program, P.O. Box 173492, Room 232D, AJM Johnson Hall, Montana State University, Bozeman, MT 59717, Phone: 406-994-7530, Fax: 406-994-4160, Cathie_Jean@nps.gov

Investigator: Denine Schmitz, Land Resources and Environmental Sciences, Montana State University, 334 Leon Johnson Hall, Bozeman, MT 59717, Phone: 406-994-6499; Fax: 406-994-3933; E-mail: dschmitz@montana.edu

Project Abstract:

Desert seeps and springs and Water Quality in Bighorn Canyon National Recreation Area (BICA) are given a high priority for long-term monitoring in the Greater Yellowstone Network's (GRYN) Vital Signs Monitoring Program. In 2004 the GRYN began work with MSU, Denine Schmitz on the development of a protocol for monitoring desert seeps and springs through a CESU task agreement. In 2006 the network continued working with Schmitz through a CESU task agreement to inventory springs at Bighorn Canyon NRA and to implement and update the draft protocol. The primary purpose of this new 2007 task agreements is to implement both the seep and spring and water quality monitoring protocols at Bighorn Canyon NRA. Annuals report is due March 31, 2008, and the Greater Yellowstone Science Learning Center almanac pages are due by November 1, 2007.

Outcomes with Completion Dates:[Due December 31, 2008]

1. Spring monitoring project metadata in NPSTORET
2. Field data collection of Water Quality and discharge measurements at Bighorn Canyon NRA (spring and summer sampling events)
3. Database records in NPSTORET
4. Verification and validations reports
5. Annual reports, including the administrative report and the spring ecosystem monitoring annual report.
6. Greater Yellowstone Science Learning Center almanac, overview and project description

Keywords: water quality monitoring, Vital Signs Monitoring Plan, Bighorn Canyon NRA, seeps, springs, Montana State University, Greater Yellowstone I&M Network, Greater Yellowstone Science Learning Center

For Administrative Use Only:

Date Annual Report Received:

Date Final Report Received:

Publications, etc. on file: