

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Water Resource Monitoring - Greater Yellowstone Network Projects

Discipline: Natural
Type of Project: Technical Assistance
Funding Agency: National Park Service
Other Partners/Cooperators: Montana State University
Effective Dates: 4/30/2014 - 3/31/2016
Funding Amount: \$21,956

Investigators and Agency Representative:

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Project Abstract: The Greater Yellowstone Network (GRYN), in cooperation with MSU, has been monitoring water quality and quantity at several locations in Bighorn Canyon National Recreation Area (BICA) since 2006. This cooperative project is a continuation of the long-term monitoring Water Resources Monitoring Protocol in BICA and expands similar work to other GRYN parks.

The project involves a combination of 1) maintenance of continuous monitoring equipment installed at three locations in BICA. 2) developing rating curves for water table levels (a surrogate for discharge) in BICA streams and a turbidity rating curve for one stream in Yellowstone National Park (YELL), and 3) collection of water samples and measurement of core water quality parameters and discharge at stream and rivers in BICA, Grand Teton National Park (GRTE) and YELL.

Outcomes with Completion Dates: March 31, 2016

Keywords: water quality, monitoring, NPS - Greater Yellowstone Network, Montana State University,