Default Report

Displaying **1** of **2** respondents

Response Type:
Normal Response

Collector:
New Link
(Web Link)

Custom Value:
empty

IP Address:
199.154.158.247

Response Started:
Monday, November 29, 2010 1:47:42 PM

Response Modified:
Tuesday, December 28, 2010 3:34:11 PM

1. Project Name

Tributary Water Quality Monitoring and Land Use Pickerel Lake

2. Project Sponsor

Day Conservation District

3. Address

600 East Hwy 12, Suite 1

4. City

Webster

5. State

SD

6. ZIP

57274

7. Phone Number

605-345-4661

8. Email

dennis.skadsen@sd.nacdnet.net

9. Project Start and End Dates

Jan 1, 2008 - Dec. 31, 2008; Jan 1, 2009 - Aug. 1, 2010

1. Which of the following outcomes did your project achieve? Please check all that apply.

Knowledge and awareness of local or statewide watershed issues and concerns related to watersheds and nonpoint source pollution.

2. Briefly describe the activities you undertook to achieve those outcomes as part of this project.

Water quality samples and field data was taken at seven tributary sites in Pickerel Lake's watershed. Water samples were collected during spring snowmelt, rain storm events, and base flow of perennial and intermittent streams flowing into the lake. Stage recorders were placed at four tributary sites to measure stream flows which were used to calculate nutrient loading from non-point pollutions sources in each subwatershed. Current land use was documented by field checks of all land located in the watershed.

3. How many people did your project reach?

An estimated 1000 people that includes an average three occupants of over 300 homes located around the lake, resource personnel reading the report, and many more who will be exposed to the report via the projects website

4. Describe how you evaluated your project. What methods did you use to get feedback to know that you were achieving the outcome(s) above?

Water quality of the lakes tributaries were evaluated by collecting 66 water samples that were analyzed at the water quality labs of the Water Resources Institute at SDSU. Lab analysis included Ammonia N, Nitrate, Total Suspended Solids, Total Dissolved Phosphorus, Total Kjeldahl Nitrogen, Total Phosphorus, and Bacteria (e-coli). Water quality parameters measured in the field included pH, dissolved oxygen, and water temperature. Water quality lab and field data results were compared to state water quality standards to determine if any samples exceeded these standards. Stage and flow measurements taken at each tributary were combined with sample analysis to calculate nutrient and sediments loads coming from each subwatershed of the lake. Land use data was mapped using ArcMap to generate a current land use map that was compared to 1996 land use. Land use mapping and field checks that identified areas contributing non-point source pollution to the lake has led to changes in ag practices of watershed landowners to help improve the lakes water quality. A comprehensive water quality report is being written and will be published on the Northeast Glacial Lakes Watershed Project's website at www.neglwatersheds.org by years end. Hard copies of the report will also be available to interested parties.

5. Any lessons learned or summarizing comments about the project?

Match for this project was generated by the Greater Pickerel Lake Association's membership dues. The association has made several financial contributions to monitor the lakes water quality and land use the results of which are being used by resource agencies to protect and improve the lakes water quality. This association and several others located on northeast SD lakes have taken a keen interest in protecting these resources, a direct result of workshops and other information and educational programs this and other watershed grants have funded over the last fifteen years.

1. Please summarize how you expended your mini-grant below. This is not an invoice.

Travel - $232.20

Supplies - $89.36

Fees - $1,578.00

2. Please document the match. Provide the donor (organization name), the type or category (food, venue, supplies, cash) and the amount. For donations of less than $100 please combine into Other category and list the total amount of donations.

Donor 1 - Greater Pickerel Lake Association, cash, 1266.41

3. Please summarize the amount of your match below.

Travel - $154.82

Supplies - $59.59

Fees - $1,052.00

4. Please summarize your expenses below.

Total I&E - $1,899.56
Total Match - $1,266.41
Total Project Costs - $3,165.97

5. Please explain how you arrived at the match above. For example, you may break down volunteer costs by listing the number of volunteers and number of hours or for what purposes the travel that is being counted as match was undertaken. This may be submitted separately with the invoices if desired.

Travel - mileage to monitoring sites. Supplies - postage and mailing supplies to mail in samples Fees - lab fees