PROJECT SUMMARY SHEET

PROJECT TITLE: South Dakota Nonpoint Source Information and Education Project: Segment 8 PROJECT PERIOD: September 1, 2026-August 31, 2029
PROJECT SPONSOR: Sponsor: South Dakota Discovery Center Contact Name Anne Lewis Contact Title Executive Director Contact Address 805 W Sioux Ave, Pierre, SD 57501 Contact Phone 605-224-8295 Contact Email annelewis@sd-discovery.org STATE CONTACT PERSON:
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319 NONPOINT SOURCE FUNDS: \$407,500 MATCH \$272,500 OTHER FEDERAL FUNDS: \$0 TOTAL PROJECT COST: \$678,500 NPS CATEGORY select and list percent [] AGRICULTURE: [] CONSTRUCTION [] AFOs [] HYDRAULIC MODIFICATION [] URBAN RUNOFF [] SILVICULTURE [] RESOURCE EXTRACTION [100] OTHER
NPS FUNCTIONAL CATEGORY- select and list percent [] BMP IMPLEMENTATION [] TECHNICAL ASSISTANCE [83] INFORMATION AND EDUCATION [] PLANNING [] WATERSHED ASSESSMENT [] GROUNDWATER [17] WATER QUALITY MONITORING [] OTHER
NPS POLLUTANTS TO BE ADDRESSED [] EXCESS NITROGEN
SUMMARY STATEMENT: Clean water comes from healthy watersheds. Healthy watersheds come from informed, motivated citizens.

PROJECT GOALS: The goal of the South Dakota Nonpoint Source Information and Education project is to promote and facilitate public understanding of watersheds and related management issues and support for and participation in watershed protection through the continued implementation of the comprehensive, coordinated statewide effort begun in 2004.

PROJECT DESCRIPTION: The 2026 Segment 8 South Dakota Nonpoint Source Information and Education Project (the Project) is designed to continue providing South Dakota's citizens information and education opportunities about nonpoint source pollution to increase their understanding of, support for and participation in nonpoint source pollution prevention and reduction practices. To achieve the goal, this project will focus on:

- 1. Outreach to South Dakota's adults using a combination of traditional and innovative methods.
- 2. A volunteer monitoring program to support water quality monitoring by the state.
- 3. Support of local and regional activities through a competitive minigrants program.
- 4. Increased student and adult awareness of watersheds and proficiency in watershed protection through education.

The Project will continue many of the program activities begun during 2004 and continued in subsequent segments with program improvements being made by incorporating lessons learned. The South Dakota Discovery Center will coordinate work plan activities and administrate the grant. The South Dakota Nonpoint Source (NPS) Task Force will provide oversight through its Information and Education Subcommittee. Activities contained within this project are consistent with the SD Nonpoint Source Information and Education Strategy, adopted by the SD NPS Task Force during July 2000.

2.0 STATEMENT OF NEED

2.1 Rationale for the Information and Education Project

Nonpoint source pollution is pollution that is carried into water by run off (rain, snow melt, lawn watering, etc.). Nonpoint source pollution has been described as the pollution that comes from everywhere and nowhere as it does not have one identifiable source. Almost everyone contributes directly or indirectly to nonpoint source pollution making it difficult to allocate responsibility for its prevention and mitigation.

Control of nonpoint source pollution is critical to improving and protecting water quality especially in South Dakota where nonpoint source pollution is a significant source of water pollution (South Dakota Department of Agriculture and Natural Resources, 2024 South Dakota Integrated Report). Unlike point source pollution that can be monitored and controlled with technological applications, nonpoint source pollution mitigation and prevention often depend upon the voluntary participation of landowners, industry leaders, community members and other stakeholders.

Community interest in and engagement with nonpoint source issues will not happen unless there is an intentional and coordinated effort to develop it. Information and education play an important role in facilitating this participation. The information and education project informs the citizens of South Dakota about nonpoint source pollution causes, impacts and prevention as well as equips them to take steps to mitigate it. Often before that can happen, citizens have to be made aware of the personal, social, economic, and environmental connections to watersheds.

A coordinated information and education project is important for efficiency reasons. Such a project allows for targeted objectives, specific audiences, and measurable outcomes. It also minimizes duplication, leverages resources and partnerships, and streamlines delivery.

2.2 History of the I&E Project

During 2003, the South Dakota Department of Environment and Natural Resources (DENR) identified the need to re-establish a comprehensive, statewide delivery of watershed information and education (I&E) opportunities. Up until then, information and education activities were coordinated by DENR. However, staff changes made continuation of the project in-house unfeasible.

In October of 2003, DENR communicated the need to the South Dakota Discovery Center (SDDC) and other organizations that had previously requested funds for I&E projects. The Department of Environment and Natural Resource encouraged the organizations to work as a group to identify statewide nonpoint source pollution I&E activities that would implement the NPS strategy as a coordinated, cooperative effort.

During 2004, a project implementation plan was developed for information, outreach and education. This project has continued since then, meeting or exceeding its milestones. In the most recent completed segment (2020-2023) every \$.26 of EPA money generated \$.74 of match or in kind, even with excluding CWSRF funding.

The transition of the SD Department of Environment and Natural Resources to the Department of Agriculture and Natural Resources (DANR) has not impacted the I&E Project in any meaningful way. The Project has increased its adult outreach through two main programs: the volunteer naturalist program and the volunteer monitoring program which are designed to be mutually supportive.

The Volunteer Naturalist program is an adult outreach program that recruits and trains volunteers to serve as naturalists in their local communities. Training includes watershed geography and volunteers are encouraged to perform service hours which include water quality monitoring and MacroBlitz, a project which documents aquatic macroinvertebrates on iNaturalist. The Volunteer Monitoring program engages volunteers in collecting water samples from surface water which is then tested by labs designated by the SD DANR. This data is used in the Integrated Report.

On the education front, the project has continued its support of Water Festivals and professional development, to prepare teachers to integrate watershed studies into their curriculum.

The ongoing success of the project speaks to the demand for it. The National Environmental Education Advisory Council noted that environmental education is a "critical tool to meet EPA's mission." This is especially relevant to watershed protection as regulation at the scale necessary to effect comprehensive watershed protection is not a feasible solution. Since watershed protection depends heavily upon the motivation and disposition of community members, the need for a nonpoint source outreach and education will never disappear.

2.3 Project Map

Project is statewide. Map not applicable.

2.4 General Watershed Information Not applicable.

3.0 PROJECT DESCRIPTION

3.1 Project Goal

Vision

The vision statement of the Nonpoint Source Information and Education Project is clean water through healthy watersheds.

The mission of the Project is: The Information and Education Project will foster South Dakotans' understanding of, support for and participation in activities which maintain and restore watersheds and water quality.

Outcomes

Visions and missions are by their very nature broad and lofty. As necessary as they are for defining the overarching purpose of a program, they are too broad to be valuable for defining the short and intermediate steps necessary to realize the vision and fulfill the mission, thus the need for outcomes. Outcomes are merely statements of what is expected to happen as a result of the program.

A common acronym to describe good outcomes is SMART: specific, measurable, attainable, realistic and time delimited. The following SMART outcomes are used to guide the work of the Project. Project outcomes are:

- Outcome 1. Increased awareness and/or knowledge of watershed health, protection, functioning, services and benefits.
- Outcome 2. Increased awareness of NPS pollution causes, effects and remedies.
- Outcome 3. Increased awareness of and participation in NPS best management practices.
- Outcome 4. Increased capacity to deliver NPS I&E.

The initial audience of the SD NPS I&E program targeted the agricultural sector and children. After 1996, the focus changed to reach a more balanced cross-section of the state's population with an increased emphasis directed toward non-ag sector adults. Previous I&E segments have continued to seek this cross-section of audiences, with a particular interest in reaching adult audiences. This segment of the project will continue to seek to reach a cross section of population with an emphasis on adults.

3.2 Outcomes, Targets, and Tasks/Objectives, Tasks and Products

OBJECTIVE 1: Facilitate understanding and action to protect watersheds.

Task Total: \$45,000 319 Funds: \$27,000 Project Partners: \$18,000

Task 1: Provide support for local, regional, and statewide projects through a competitive mini-grants program.

Product 1: Section 319 funds will be used to support an NPS I &E mini-grants program for projects that build awareness of, support for, and participation in watershed health and protection. The South Dakota Discovery Center in collaboration with the 319 Nonpoint Source Task Force Subcommittee and the Department will issue a call for the grants, review and fund them as subawards.

Lead Partners:

- SD Discovery Center
- 319 Nonpoint Source
- SD Department of Agriculture and Natural Resources

Milestones

- Year 1 1 minigrant awarded
- Year 2 1 minigrant awarded
- Year 3 1 minigrant awarded

Task 2: Support adult outreach activities

Task Total: \$185,000 **319 Funds:** \$105,000 **Project Partners:** \$80,000

Product 2: Volunteer monitoring. During Segment 6 of the project, many of the planned outreach activities were curtailed by COVID. The project coordinator, in partnership with DANR pivoted to formalizing and scaling up a volunteer monitoring program. This segment will continue to support the volunteer monitoring program by recruiting volunteers, supporting training of volunteers in sampling, paying for sample analysis, and debriefing and disseminating data. Volunteer recruitment will occur through lake associations, the SD Volunteer Naturalist program, and Friends of the Big Sioux in addition to other stakeholders TBD.

Lead Partners:

• SD Discovery Center

Milestones

• Year 1 – 60 sites monitored

- Year 2 60 sites monitored
- Year 3 60 sites monitored

Product 3: South Dakota Volunteer Naturalist program. The South Dakota Volunteer Naturalist (SDVN) program began in 2021 as a collaborative opportunity sponsored by the 319 Information and Education project via the SD Discovery Center, the SD Department of Game, Fish and Park, the South Dakota Extension Service, and the Black Hills Parks and Forest Association. The mission of the SD Volunteer Naturalist Program is to empower well-informed volunteers to provide education, outreach, and service dedicated to the well-being of the natural world and to foster people's connection with nature, the environment, and natural areas within our local communities and the state of South Dakota. Specifically relevant to watersheds and water quality, the SDVN program provides education on watersheds and water quality for its members. Members are also required to conduct volunteer service hours and can use volunteer monitoring and other watershed related citizen science projects to meet those requirements. And finally, the Volunteer Naturalists can serve as a pool for water festival volunteers and other watershed related community outreach projects.

The program has served 300 participants and there are currently over 100 on the 2025 roster. A paid, part time coordinator is necessary. The Project will partner with other SDVN sponsors to provide funding for a coordinator.

Lead Partners:

- SD Discovery Center
- Game, Fish and Park

Milestones

- Year 1 50 volunteer naturalists trained
- Year 2 50 volunteer naturalists trained
- Year 3 50 volunteer naturalists trained

Objective 2: Educate students about watershed and nonpoint source pollution issues.

Task 3: Coordinate and support water education

Task Total: \$111,000 **319 Funds:** \$67,500 **Project Partners:** \$55,000

Product 4: Water Festivals. Water Festivals annually provide over 4,000 elementary students (mainly third through fifth grade) at seven different sites hands-on learning about all aspects of water. These one-day events introduce students to the full depth and breadth of how water impacts the environment, their communities, and their personal lives. Project funds will be used to fund resources, non-consumable supplies, and educational opportunities or startup costs for new festivals. In kind and cash match will be provided by local water festivals.

Lead Partners:

- SD Discovery Center (Pierre)
- East Dakota Water Development District (Brookings)
- Minnehaha Conservation District (Sioux Falls)
- Yankton Area Water Festival (Yankton)
- Vermillion Area Water Festival (Vermillion)

Milestones:

- Year 1 5 Festivals
- Year 2 5 Festivals
- Year 3 5 Festivals

Product 5: Professional Development. An effective, efficient way to reach students and young people is through training their teachers and youth program staff to deliver water education. Section 319 funds will be used to provide standards-compliant, inquiry-based professional development that supports state education initiatives using evaluated curriculum resources. A small pot of funding will be provided to allow trained teachers to purchase classroom supplies and materials.

Professional development opportunities for classroom teachers, youth organization staff will be delivered via webinars, conferences, face to face workshops and intensive field classes. Match will be provided by in-kind educator contributions and support from local groups.

Lead Partner:

• SD Discovery Center

Milestones:

- Year 1-9 workshops.
- Year 2-9 workshops.
- Year 3 9 workshops

3.3 Milestone Table

See Attachment 2.

3.4 Project Management and Tracking

Qualifications: The South Dakota Discovery Center began a partnership with the then Department of Environment and Natural Resources (now Agriculture and Natural Resources) in 2004 to administer and operationalize a watershed information and education program. The South Dakota Discovery Center was selected based on its history of water education, relationship with teachers, involvement in facilitating water festivals, and statewide scope in outreach. The core deliverables of the project have remained consistent over the years: minigrants, teacher workshops, water festivals and support for broader youth, student and community watershed learning opportunities. Each project segment has resulted in qualitative expansion, e.g. integrating the GLOBE project into teacher education, supporting green infrastructure minigrants, and a robust development of a volunteer monitoring program.

Project Management: The South Dakota Discovery Center has used the Tracker Tool developed and maintained by the Department to manage the reporting and invoicing to the state. The South Dakota Discovery Center also uses its own internal resources for project management which include hiring an accountant to manage its books, financial reviews and audits per nonprofit best practices, using Quickbooks Online and following Generally Accepted Accounting Practices, and integrating the project deliverables and milestones into the work of the South Dakota Discovery Center.

Project coordinator Anne Lewis has been the project coordinator for the I&E Project since its inception and is the current coordinator for Segment 7 which is slated to end just as Segment 8 begins.

3.5 Permits

No permits are required for this project.

4.0 COORDINATION PLAN

4.1 Cooperating Organizations

Organization	Commitment to Partnership
SD Dept. of Agriculture & Natural Resources	Program oversight and technical assistance.
SD Game, Fish and Park	South Dakota Volunteer Naturalist program sponsor
SD Association of Conservation Districts	Member of I&E subcommittee
South Dakota State University Extensions	South Dakota Volunteer Naturalist program sponsor
East Dakota Water Development District	Member of I&E subcommittee, Water festival sponsor
Day County Conservation District	Partner in educator trainings
Minnehaha Conservation District	Water Festival sponsor
Vermillion Water Festival Network	Water Festival sponsor
Yankton Area Water Festival Committee	Water Festival sponsor
City of Sioux Falls	Water Festival sponsor,

4.2 Local Support for Project

The SD Nonpoint Source Information & Education Partnership includes participation and support from state, regional and local organizations (see Section 4.2). Within the coordinated project work plan, each partner organization has agreed to help according to its mission and areas of expertise.

4.3 Duplicate Effort

The project sponsor is aware of no other organized effort in South Dakota to implement a designed coordinated, comprehensive system for providing watershed information and education to South Dakota citizens. This project will coordinate with and use materials prepared by partners and other groups to avoid duplication of effort and leverage program materials already available.

4.4 Assumption of the Responsibilities of Other Entities

The 319 Information and Education project will not undertake any outreach or education efforts that should be undertaken by other agencies or organizations. Since water is a topic that is relevant to ,many local, state and federal agencies, the I&E project will collaborate and coordinate with those agencies in outreach and education efforts. Collaboration may be in the form of minigrants, shared coordination responsibilities or similar effort where there is demonstrable time, effort, and/or funding provided by the other agency/ies.

5.0 EVALUATION & MONITORING PLAN

5.1 Monitoring Strategy

(Cited from the *Quality Assurance Project Plan for Volunteer Water Quality Samplers* available at https://danr.sd.gov/Conservation/WatershedProtection/VolunteerActivities.aspx)

The DANR Volunteer Monitoring Program's goal is to involve South Dakotans in identifying and documenting the State's water quality conditions. The program provides support including technical

assistance in monitoring design, equipment use, data management and analysis. The purpose of the program is to improve the quality and quantity of data collected by groups across South Dakota such that the data may be used locally by Community Based Organizations (CBOs) and by the DANR.

5.2 Sampling Analysis Plan

Sampling will be conducted under the supervision of the South Dakota Department of Agriculture and Natural Resources. The analysis plan for lakes and streams is part of the *Volunteer Monitoring Standard Operating Procedures* (SOPs) document. This document is available on the SD DANR Watershed Protection website at https://danr.sd.gov/Conservation/WatershedProtection/VolunteerActivities.aspx. Sampling will be done to provide the State with useful and usable data for its Clean Water Act reporting requirements.

Each volunteer monitor will create a sampling plan that will be reviewed by DANR staff. The sampling plan may include Secchi disk readings, mid lake grab sampling, shoreline *E coli* sampling and shoreline microsystin sampling and stream grab sampling, depending on the water body and the recommendations of DANR staff.

A more complete discussion of the sampling analysis plan can be found on the Department's Watershed Protection website at https://danr.sd.gov/Conservation/WatershedProtection/VolunteerActivities.aspx (linked above).

5.3 Quality Assurance Project Plan

The Volunteer Monitoring projects quality assurance plan (QAPP) follows the State's QAPP. The *Quality Assurance Project Plan for Volunteer Water Quality Samplers* details training; replicate and blank sample interval; instrument calibration, testing, inspection, and maintenance; documents and records; and data review, verification, and validation methods.

A more complete discussion of the quality assurance project plan can be an be found on the Department's Watershed Protection website at https://danr.sd.gov/Conservation/WatershedProtection/VolunteerActivities.aspx

5.4 Data Collection, Management and Analysis

The data collected as part of the volunteer monitoring program is managed by the South Department of Agriculture and Natural Resources. Samples collected by the volunteers sent to the laboratory include meta and observational data recorded on a data sheet. The data from the lab analysis and the data sheet is reported to the South Dakota Discovery Center and the SD Department of Agriculture and Natural Resources.

The data is reported to the public via the Monitoring Access Portal, accessed through the SD DANR surface water webpage at https://apps.sd.gov/NR92WQMAP and the Harmful Algal Blooms (HABs) Interactive Map at https://sdbit.maps.arcgis.com/apps/webappviewer/index.html?id=ec7a545532a24a3599a46cee428def48

A more complete discussion of the data collection, management and analysis can be an be found in the *Volunteer Quality Assurance Project Plan* on the Department's Watershed Protection website at https://danr.sd.gov/Conservation/WatershedProtection/VolunteerActivities.aspx

5.5 Models

Volunteer monitoring data may or may not be used in models by the SD DANR.

5.6 Operations and Maintenance

No Best Management Practices (BMPs) will be implemented as part of this project.

6.0 INFORMATION AND EDUCATION

This project is a dedicated information and education project. The objectives and tasks are described in section 3.2.

7.0 BUDGET AND JUSTIFICATION

This table shows the amount and source of all federal and non-federal funds used during each year of the

project.

project.			T	.	
Funding Sources	Funding Activity	Year 1	Year 2	Year 3	Total
EPA Section 319	Personnel, BMPs	\$135,500.00	\$135,750.00	\$135,750.00	\$407,000.00
Local Cash & InKind	Personnel, BMPs	\$89,250.00	\$91,625.00	\$91,625.00	\$272,500.00
Mini-Grant Recipients	BMPs	\$6,000.00	\$6,000.00	\$6,000.00	\$18,000.00
Volunteer Monitors	BMPs	\$20,000.00	\$20,000.00	\$20,000.00	\$60,000.00
SD Volunteer Naturalists	BMPs	\$5,000.00	\$7,500.00	\$7,500.00	\$20,000.00
Local Water Festivals	BMPs	\$13,000.00	\$13,000.00	\$13,000.00	\$39,000.00
Volunteer Trainers & Facilitators Professional Development	BMPs	\$5,333.33	\$5,333.33	\$5,333.33	\$16,000.00
SD Discovery Center	Personnel, BMPs	\$39,916.67	\$39,791.67	\$39,791.67	\$119,500.00
Grand Total		\$89,250.00	\$91,625.00	\$91,625.00	\$272,500.00

8.0 ATTACHMENT CONTENTS

Attachment 1: Project SummaryAttachment 2: Milestone Table

• Attachment 3: Budget

Attachment 2 Milestones

Attachment 2: Milestones				
Objective/Task/Product	Quantity	Year 1	Year 2	Year 3
1.0.0 Facilitate understanding and action to protect				
watersheds.				
Task 1.1.0 Provide support for local, regional and statewide				
projects through a competitive mini-grants program.				
Product 1.1 .1 Competitive mini-grants program.	3	1	1	1
Task 1.2.0 Provide support for adult outreach activities				
Product 1.2.2 Support for volunteer monitoring	180	60	60	60
Product 1.2.3 Support for South Dakota Volunteer				
Naturalist program.	150	50	50	50
2.0.0 Educate students about watershed and nonpoint source				
pollution issues.				
Task 2.3.0 Coordinate and support water education				
2.3.4 Water Festivals	15	5	5	5
2.3.5 Professional Development	27	9	9	9

Attachment 3 Budget

	Year	1	Year 2		Year 3		Total		One of Table
Personnel/Administrative	EPA	Local	EPA	Local	EPA	Local	EPA	Local	Grand Total
Project Salaries (1.0 FTE)	\$ 66,666.67	\$ 8,333.33	\$66,666.67	\$8,333.33	\$66,666.67	\$8,333.33	\$200,000.00	\$ 25,000.00	\$225,000.00
Administration	\$ 5,666.67	\$ 4,333.33	\$5,666.67	\$4,333.33	\$5,666.67	\$4,333.33	\$ 17,000.00	\$ 13,000.00	\$ 30,000.00
SD Discovery Center Staff support	\$ -	\$ 8,000.00	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$ -	\$ 24,000.00	\$ 24,000.00
Office Space @ \$1500 per month	\$ -	\$ 18,000.00	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$ -	\$ 54,000.00	\$ 54,000.00
Travel	\$ 500.00	\$ 500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$ 1,500.00	\$ 1,500.00	\$ 3,000.00
Supplies		\$ 750.00	\$250.00	\$625.00	\$250.00	\$625.00	\$ 500.00	\$ 2,000.00	\$ 2,500.00
Personnel/Administrative Totals	\$ 72,833.33	\$ 39,916.67	\$ 73,083.33	\$ 39,791.67	\$ 73,083.33	\$ 39,791.67	\$219,000.00	\$119,500.00	\$338,500.00
Objective 1: Facilitate understanding and action to									
protect watersheds.									\$ -
Task 1: Competitive mini-grants									\$ -
Product 1: Local or regional watershed I&E									
projects	\$ 9,000.00	\$ 6,000.00	\$9,000.00	\$6,000.00	\$9,000.00	\$6,000.00	\$ 27,000.00	\$ 18,000.00	\$ 45,000.00
Task 2: Adult outreach/Citizen Science	\$ -	\$ -					\$ -	\$ -	\$ -
Product 2: Volunteer Monitoring	\$ 30,000.00	\$ 20,000.00	\$30,000.00	\$20,000.00	\$30,000.00	\$20,000.00	\$ 90,000.00	\$ 60,000.00	\$150,000.00
Product 3: SD Volunteer Naturalists	\$ 5,000.00	\$ 5,000.00	\$5,000.00	\$7,500.00	\$5,000.00	\$7,500.00	\$ 15,000.00	\$ 20,000.00	\$ 35,000.00
Objective 1 Totals	\$ 44,000.00	\$ 31,000.00	\$ 44,000.00	\$ 33,500.00	\$ 44,000.00	\$ 33,500.00	\$132,000.00	\$ 98,000.00	\$230,000.00
Objective 2: Educate youth and students about water	\$ -	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$ -	\$ -	\$ -
Task 3: Water Education	\$ -	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$ -	\$ -	\$ -
Product 4: Water Festivals	\$ 12,000.00	\$ 13,000.00	\$12,000.00	\$13,000.00	\$12,000.00	\$13,000.00	\$ 36,000.00	\$ 39,000.00	\$ 75,000.00
Product 5: Professional Development	\$ 6,666.67	\$ 5,333.33	\$6,666.67	\$5,333.33	\$6,666.67	\$5,333.33	\$ 20,000.00	\$ 16,000.00	\$ 36,000.00
Objective 2 Totals	\$ 18,666.67	\$ 18,333.33	\$ 18,666.67	\$ 18,333.33	\$ 18,666.67	\$ 18,333.33	\$ 56,000.00	\$ 55,000.00	\$111,000.00
TOTAL	\$ 135,500.00	\$ 89,250.00	\$ 135,750.00	\$ 91,625.00	\$ 135,750.00	\$ 91,625.00	\$407,000.00	\$272,500.00	\$679,500.00
							60%	40%	100%