1.0 PROJECT PROPOSAL SUMMARY SHEET

Project Title: North Dakota Water Wisdom

Lead Project Sponsor: Dakota Prairies Resource Conservation & Development Council

Contact Persons:

Project director: Susan Davis, Executive Director
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State: North Dakota
Hydrologic unite code: Statewide
High priority watershed: N/A
Project type: Information and education
Waterbody types: Groundwater, lakes/reservoirs, rivers, streams, wetlands (all)
NPS category: Agriculture
Project location: Statewide and 18 counties in south central and southwestern N.D.

Summarization of major goals: Research and begin the organizational work for new training tools to blend with still relevant existing training materials to educate a diverse North Dakota audience on permanent agriculture cultures (permaculture) to minimize nonpoint source (NPS) water pollution. We will begin the preparations for tools to teach and demonstrate approaches to drainage and water runoff to help people learn to slow, spread and sink the water into the landscape, providing beneficial effects to the site and watershed.

Project description: Collaborate with the 37 members of Dakota Prairies and Dakota West RC&Ds and other partners such as the Natural Resources Conservation Service (NRCS), the Burleigh County Soil Conservation District/Menoken Farm and the North Dakota Grazing Lands Coalition (NDGLC) to cultivate the wealth of existing expertise and begin examining the feasibility and the organization of a comprehensive water quality training program in our 18 counties. We will also spotlight soil health and grazing management through three major workshops. Two western North Dakota regional workshops will disperse critical soil health lessons learned through the 319 Program-funded Menoken Farm. And through the partnership with NDGLC we can bring to a statewide audience the growing field of holistic grazing and management practices to improve and protect water quality. We will also sustain the successful local NPS water pollution-prevention events put on by our RC&D members.

FY15 Section 315 funds requested: $145,000
Match: $ 96,667

Total project cost: $241,667

319 funded personnel: .50 or less

North Dakota Water Wisdom

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2.0 STATEMENT OF NEED

2.1 Water quality priorities

The North Dakota Water Wisdom Program is partly a continuation of the Partners for Improved Water Quality Information & Education Program and the Water Quality Mentorship and Outreach Program. *(See Attachment A for past accomplishments.)* This new plan calls for the initial study and work to organize a comprehensive training module that will be used to train and educate a diverse audience that includes agriculture producers; soil conservation district and water resource district employees and boards; educators; absentee landowners; county commissioners; and lawmakers across our two RC&D councils' 18-county area. These organizational efforts will better determine the workload, partners and support needed.

Dakota Prairies RC&D Council and Dakota West RC&D Council have identified and addressed agricultural NPS water pollution prevention as a priority in the 18-counties they serve in south central and southwestern North Dakota. Dakota Prairies serves the 10 counties of Burleigh, Emmons, Grant, Kidder, McLean, Mercer, Morton, Oliver, Sheridan and Sioux. Dakota West serves the eight counties of Adams, Billings, Bowman, Dunn, Hettinger, Golden Valley, Slope and Stark. *(See Attachment B for a map of the 18 counties.)*

The two councils' 37 members, which include 18 soil conservation districts (SCDs), 9 county commissions and 7 water resource boards (WRBs), are committed to the project work and have signed a formal agreement to share administrative services to conduct the North Dakota Water Wisdom Program.

The new project is a valuable investment in North Dakota's future by:

- Consulting with North Dakota NSP pollution experts to begin the organizational work to create a comprehensive water quality training program that covers cropland and grazing land.
- Spreading soil health and grazing management best management practices by: 1) Cultivating the soil health expertise and lessons learned at the Burleigh County Soil Conservation District's Menoken Farm, Bismarck, and dispersing them to our 18-county area of North Dakota; and 2) partnering with the North Dakota Grazing Lands Coalition to plan and hold an advanced grazing planning workshop.
- Continuing to sustain and strengthen successful learning events and projects on the local and county levels by helping to organize and sponsor water quality-related BMP events and projects held by the members and close partners of Dakota Prairies RC&D and Dakota West RC&D.

The Councils have worked in partnership with local grassroots natural resource organizations on a variety of 319 projects since 1997. Besides 18 SCDs and eight WRBs, the Councils' 37 members include two Native American tribal communities and nine county commissions.

The majority of our project work will cover and benefit farming/ranching, living and working in the 18 counties our two RC&D Councils serve.

These 18 counties are in the Missouri River Basin, which is comprised of seven major sub-basins and drains about 34,000 square miles—or about 48 percent of North Dakota's total area.

According to the "North Dakota 2012 Integrated Section 305(b) Water Quality Report," all rivers, streams, reservoirs and lakes assessed within North Dakota are impacted to some degree by NPS pollution. And, generally, most surface water quality impacts are associated with agricultural activities in these water sheds.

The report goes on to say that ground water impacts result from the improper use of agricultural chemicals, leaking underground petroleum storage tanks and pipelines, wastewater impoundments, oil and gas exploration activities, septic systems and improperly located and maintained solid waste disposal sites.

The quality of North Dakota's surface water and ground water is affected by both natural and cultural, point source and NPS pollution, with NPS pollution being the major factor affecting surface water quality in the state, according to the 2012 report.

In early September 2014, Dakota Prairies RC&D sent an electronic survey to the 23 members of Dakota Prairies and the 14 members of Dakota West to measure the water quality needs of the 18 counties served by the two RC&D councils.

Because agriculture is a major source of nonpoint source (NPS) water pollution in North Dakota, the members were asked what related topics their areas were most interested in. Of the 24 who participated in the survey, the top response was "cropland management." A total of 87.5 percent ranked this as the No. 1 priority. "Grazing management," with 75.0 percent, was the second largest need identified, with animal waste management coming in third with 54.2 percent.

Other topics listed on the survey that received votes are animal feedlot management at 20.8 percent and riparian corridor management at 12.5 percent.

Two other suggestions were soil health and the use of chemicals/herbicides by non-agricultural producers in homes and/or gardens. The respondent who said "chemicals/herbicides," added that this is a major concern because most people have the mentality "if a little bit is good, then a lot would be better."

As a follow-up, members were asked, of the agriculture topics they selected, what related issues they want the new educational programs focused on. The top two answers—with 66.7 percent each—were soil health and grazing management. Cover crops was the third most popular issue with 50.0 percent. Other recommendations included animal feedlot waste management (nutrient management); overuse of chemicals, pesticides and herbicides; water conservation/retention; biological control of weeds and insect pests; crop rotation; and water saline issues.

When asked about whom we should target our training and education to, 87.5 percent of those responding said "agriculture producers." The second highest choice was high-school teachers at 62.5 percent. Absentee landowners, county commissioners and North Dakota lawmakers were in a three-way tie for third, with all at 50.0 percent of the vote. Grade-school teachers was a close fourth with 45.8 percent. Other audiences receiving votes were agriculture lenders at 37.5 percent, tribal communities at 16.7 percent and college teachers at 8.3. One participant said, "Audiences that can make the most impact that will actually implement recommendations."

The top choice for the format for delivering water quality training and education was "small, local events," with 75.0 percent. "Community events" came in second highest with 54.2 percent. Our membership also likes "county-wide events," with 50.0 percent choosing this option. In other voting, 37.5 selected online training and education and 29.2 percent chose several large regional or statewide training events. One additional recommendation was "schools."

Some of the 37 members of Dakota Prairies and Dakota West, with assistance from our current 319 grant, help sponsor popular longtime water quality events in the counties they serve. When asked which of these information and education events they want to continue to provide, soil health workshops was chosen most often with 62.5 percent, followed closely by producer meetings (with water quality component) with 45.8 percent. Other top events were seventh- or eighth-grade conservation tours (featuring water quality) at 37.5 percent and winter grazing and feeding tours at 25.0 percent. In another three-way tie, zero-till workshops, Earth Day events and efficient nitrogen management training all received 16.7 percent. Coming in last, with 12.5 percent, was agriculture trade shows (with water quality component).

Other ideas/suggestions under local events were:

- Development of curriculum with the North Dakota Department of Public Instruction relative to water ownership and need to protect water quality
- Eco-ed day with fifth- and sixth-graders, which is held every two years
- Cover crop demos
- Ladies agriculture night

In a related question, members were asked how much grant funding they needed to help carry out their established local events over the new three-year grant period. The top answers, in a two-way tie at 29.2 percent each, were $10,001 to $30,000 and "not sure." Five respondents, or 16.7 percent, said $10,000 or less. Other answers were 12.5 percent at $70,001 or more; 8.3 percent at $30,001 to $50,000 and 4.2 percent at $50,001 to $70,000.

The survey also asked which topic areas members prefer for small local demonstration projects. Grazing management and cropland management garnered the most votes, with 83.3 percent for grazing and 79.2 percent for cropland. Animal waste management was third with 50.0 percent. In a distant fourth and fifth were animal feedlot management with 16.7 percent and riparian corridor management with 12.5 percent.

One additional suggestion under this category was "use of chemicals/herbicides by non-agricultural producers in homes and/or gardens."

The last question on the short eight-question electronic survey, asked participants to share any comments or suggestions they have for the work plan under the new 319 water quality grant. One comment was received that read: "Along with training and demonstrations, could this grant cover the cost of tools for management and monitoring to be given to producers….such as water testing kits, pH testing kits, stick to measure forage height, etc.?"

2.2 Audience being targeted

Based on an early September 2014 survey of the two councils' members, multiple discussions with the North Dakota Department of Health/Water Quality and meetings with partners such as

the North Dakota Grazing Lands Coalition and NRCS, we propose to target the following: audiences:

- *Agricultural producers:* Cropland and grazing producers, along with absentee landowners: Although most farm operators are aware of water quality issues, the majority do not have all the information they need to effectively reduce agriculture-related NPS pollution. We will provide them information about their role in preventing NPS water pollution from happening.
- *SCD and WRB employees and board members:* Because SCD and WRB personnel and directors are on the "front line" with their farming and ranching communities and the general public, it is critical that they know and can accurately share information about a wide range of agriculture-related NPS water pollution issues.
- *Top agricultural producers in each county:* Because often the most effective way to gain producer participation is one-to-one contact between peers, we will train several of the key agriculture producers in our 18-county area who can help do follow-up work to gain producer confidence and increase participation.
- *Teachers (grade school, middle school and high school*): Because the most lasting way to affect lifetime attitudes is to educate children—thus investing in the future—we propose to train the teachers, who will in turn train the children. Through this method we will be reaching both teachers and students.
- *County and city commissioners and North Dakota lawmakers:* By providing NSP education to local, county and statewide government officials, we can give them a better understanding of the sources and causes of NPS pollution so they assist in making a wide range of governmental decisions.
- *Ag lenders and bankers*: By educating bank officials about how farmers and ranchers can control water quality NPS pollution, they can better understand and evaluate applications for loans to support BMP implementation.
- *Tribal communities:* The two tribes we serve under this project, Standing Rock Sioux Tribe and the Three Affiliated Tribes, face their own unique water quality issues. A lack of adequate water supply at Standing Rock has reduced livestock production. Shallow groundwater is scarce and unreliable and deep groundwater is highly mineralized and of poor quality. The Three Affiliated Tribes has adequate water supply from Lake Sakakawea and other sources, but faces threats to the quality of that water as more contaminants are being found in the available water sources due to land management practices.

Because soil health and grazing management were the top topics in our member survey, our project includes statewide soil health and advanced grazing planning workshops.

Soil health is defined as: "The continued capacity of the soil to function as a vital living ecosystem that sustains plants, animals and humans." The five principles commonly associated as the foundation of soil health are:

1. Minimize soil disturbance (tillage)
2. Keep the soil covered at all times with plants and plant residues (soil armor)
3. Maximize diversity of plants in crop rotations (four crop types)
4. Keep living roots in the soil as much as possible (cover crops)
5. Integrate livestock

A need exists to provide soil health information and education to farmers, ranchers, gardeners, agriculture lenders, educators and others. The two regional workshops will be designed to

increase a diverse statewide audience's understanding of how the soil is designed to function and then managing it accordingly. The concepts are best presented with a combination of academia and producer speakers. Together, the participants obtain a better understanding of why and how to implement soil health.

Traditionally, we have had an understanding of the physical and chemical function of the soil. It is only recently we have started to recognize and appreciate the biological function. This gives us an opportunity to better manage our soils as we move toward the bigger picture of soil health—food health and people health.

Holistic grazing management is a method of managing the land in a way that mirrors nature. With less artificial inputs and actions, advocates believe that by managing holistically, the land, animals, water and world will be healthier. Inputting less also has economic benefits.

3.0 PROJECT DESCRIPTION

3.1 Goal

The goal of the North Dakota Water Wisdom Program is to provide agriculture-related water quality education and training to residents of south central and western North Dakota to be aware and help implement water NPS pollution prevention that will keep North Dakota's surface and groundwater clean and abundant.

3.2 Objectives and tasks

Objective 1: *Provide management leadership and support systems to carry out the North Dakota Water Wisdom Program:* Dakota Prairies RC&D and Dakota West RC&D will provide effective leadership through a contract employee and keep in place the support services and systems to carry out the work. ($41,800)

Task 1: *Effective leadership:* Employ a program director to provide management and direction to implement and deliver this project's objectives and tasks, including organizational work on a comprehensive training module and toolbox publication; organizing and facilitating three major workshops; and delivering effective local and county NPS pollution/water quality education programming. Includes travel costs and training associated with carrying out the project's programming.

Product: Personnel to provide program management, development and implementation of program's objectives and tasks

Cost: $14,400 from 319 grant and $0 from match

Task 2: *Support services:* Support services needed to ensure project leadership and board can carry out the programming for our 18 counties in south central in western North Dakota. Includes office rent, meeting expense, equipment, telephone/Internet, postage and printing.

Product: Provision of necessary support and services

Cost: $27,400 from 319 grant and $27,867 from match

Objective 2: *Organizational work on a comprehensive NPS water pollution prevention training manual:* Dakota Prairies RC&D and Dakota West RC&D will work on organizational efforts of

developing, with multiple partners, a comprehensive agriculture-related water quality training program that promotes management practices that minimize NPS pollutants. The feasibility and organizational work done under this project will determine the work load, partners and support needed to develop the manual, train the trainers and deliver training to the target audiences. We will seek subsequent funding to implement this objective. The training manual could consist of multiple subject modules that would cover topics such as: 1) Soil testing; 2) nutrient and pesticide management; 3) rotational grazing; and 4) conservation tillage. These modules could then be covered in their entirety in a full-day training session, or broken down into a two-hour general overview or a half-day session.

The training and education program could cover effective ways to reduce sediment, nutrient, pesticide and livestock waste that commonly affect the water quality of many North Dakota water bodies. These pollutants are generally delivered to bodies of water by runoff waters, wind, percolation or atmospheric deposition. This educational program will eventually share ways to reduce or eliminate the transport of these pollutants to surface and/or groundwater. ($17,400)

Task 3: *Create steering committee:* Set up a training manual committee consisting of the executive director of Dakota Prairies/Dakota West and the two councils' executive committees; leaders of the North Dakota Grazing Lands Coalition; Burleigh County SCD/Menoken Farm leaders; representatives from NRCS and North Dakota Extension Service; and others as needed and identified.

Product: An active organizational steering committee that will meet to assess the work load, necessary partners and the support needed to develop this comprehensive training module and the steps and costs needed to implement it

Cost: $1,200 from 319 grant and $800 from match

Task 4: *Review and plan training module:* Bring together steering committee to determine the workload, partners and support needed to develop this training module and how to train the trainers and deliver training to the target audiences. This comprehensive training manual would then be used in the future to deploy and spread water quality education throughout the 18 counties served by our two councils.

Product: A completed study of what is needed to accomplish this training module and a plan to move forward with it

Cost: $12,600 from 319 grant and $8,400 from match

Task 5: *Review and plan BMP toolbox publication.* Conduct organizational work on a toolbox manual that would result from the comprehensive training module. This could eventually be available in both electronic format for Web sites and e-mail distribution and in print form for hand-out and mail distribution.

Product: Organizational work to study the feasibility of writing and publishing a toolbox publication

Cost: $3,600 from 319 grant and $2,400 from match

Objective 3: *Statewide soil health and grazing workshops:* This project will provide hands-on learning to all residents of south central and western North Dakota by organizing and holding two regional soil health workshops and one statewide advanced grazing planning workshop over the three-year grant period, for a total of three major educational events. This will allow a wider

and larger audience to learn about how critical soil health and grazing management are to prevent NPS water pollution. These events will also lay the foundation and the planning for two lasting products, two major BMP publications—one for soil health and one for grazing. ($25,800)

Task 6: *Plan and hold two North Dakota regional soil health workshops.* Set up a soil health workshop committee consisting of the executive director of Dakota Prairies/Dakota West and the two councils' executive committees; representatives from two of North Dakota's eight regional development councils; Burleigh County SCD/Menoken Farm leaders; representatives from NRCS and North Dakota Extension Service; and others as needed. Coordinate with Jay Fuhrer, soil health specialist and project leader of the Burleigh County SCD Menoken Farm, to secure speakers and hands-on demonstrations at each event. Organize two regional soil health workshops (one in Dakota Prairies RC&D's 10-county area and one in Dakota West RC&D's eight-county area). We anticipate holding one the first year of the grant period and one the second year. We will add a third soil health workshop during the third year is funding permits. The two regional workshop will be held in the two North Dakota regions as defined by the North Dakota Regional Development Councils under the North Dakota Department of Commerce and the North Dakota's eight resource conservation districts. These are:

- *Region 7 – Lewis & Clark Regional Development Council/Dakota Prairies RC&D:* The 10 counties served are Burleigh, Emmons, Grant, Kidder, McLean, Mercer, Morton, Oliver, Sheridan and Sioux.
- *Region 8 – Roosevelt Custer Regional Council for Development/Dakota West RC&D:* The eight counties served are Adams, Billings, Bowman, Dunn, Hettinger, Golden Valley, Slope and Stark.

Product: Two large soil health workshops, one in each of the RC&D areas
Cost: $12,000 from 319 grant and $8,000 from match

Task 7: *Review and plan soil health BMP toolbox publication.* From the information shared and learned at the two workshops, capture the highlights and then plan and conduct organizational work to write, design and produce a soil health publication on best practices for soil health to be posted on the Web sites of the North Dakota Department of Health/Water Quality Division, Dakota Prairies RC&D, Dakota West RC&D and Burleigh County Soil Conservation District and printed for distribution to SCDs and others entities across North Dakota.

Product: Planning work for a soil health toolbox publication
Cost: $1,800 from 319 grant and $1,200 from match

Task 8: *Plan and hold one advanced grazing planning workshop.* Establish a grazing workshop committee consisting of the executive director of Dakota Prairies/Dakota West and the two councils' executive committees; representatives from the North Dakota Grazing Lands Coalition; a representative from NRCS; and others as needed. Secure grazing speaker experts on grazing and hold an advanced grazing planning workshop, likely during third year of the grant period. Conduct workshop evaluation.

Product: One statewide advanced grazing planning workshop
Cost: $10,200 from 319 grant and $6,800 from match

Task 9: *Review and plan grazing BMP toolbox publication.* From the information shared and learned at the statewide advanced grazing planning workshop, capture the highlights and then plan and conduct organizational work to write, design and produce a publication on best practices for grazing management.

Product: Planning work for a toolbox publication on best practices for grazing management

Cost: $1,800 from 319 grant and $1,200 from match

Objective 4: *Local and county-wide training/education events:* Implement local and countywide water quality training and education events sponsored by the SCDs and WRBs in our 18-county area. These events will be strictly water quality-related as reviewed and determined by our Ad Hoc Granting Committee. This Committee is governed by defined policies. Members of this committee are the project director, two board members from Dakota Prairies RC&D and two board members from Dakota West RC&D. Eligible events include: Diversity, Direction & Dollars Ag Show; seventh- and eighth-grade conservation tours; winter grazing and feeding tours; Man-Dak Zero Tillage Workshop; Earth Day Festival; Make a Splash Water Festival; Phil Needham Clinic; and holistic management courses.

Task 10: *Plan, organize and hold local events and publicize events and results:* Work with member soil conservation districts and water resource districts to plan, organize and hold local water quality training and education events. Write and distribute news releases to local, county and regional newspapers, agriculture magazines and other publications before and after events to educate public in in the importance of NPS pollution reduction.

Product: Approximately 10 local water quality training and education events per year for a total of about 30 successful events over the three-year project period and up to 30 news releases on the results of each event

Cost: $60,000 from 319 grant and $40,000 from match

3.3 Project schedule

We propose a project work plan that includes four overall objectives. Many of the work tasks will continue throughout the three-year grant period. *(See Attachment C for the Milestone Table)*

3.4 Appropriate entity

Dakota Prairies RC&D Council and Dakota West RC&D Council, in partnership with its 18 member SCDs and WRBs, have more than 17 years of experience planning and implementing 319 Program information and education work. Our RC&D Councils are comprised of representatives from these entities, as well as city and county commissions. The councils maintain a close affiliation and working relationship with each of the partner/members. We are non-profit entities with 501(c)3 designation and have proven histories of fiscal responsibility and grant management. Dakota West contracts with Dakota Prairies to provide administrative services through its executive director, Susan Davis. Davis, who has more than 30 years of business and communication experience, will serve as the program director, providing overall oversight and administration of this project.

3.5 Plan for proper operation and maintenance

Dakota Prairies RC&D Council and Dakota West RC&D Council have contracted with Davis to provide executive director services. Davis, who has 13 years of experience in grant management and work plan programming, will serve as the project director for this new three-year program.

Davis formerly worked for the North Dakota Association of Rural Electric Cooperatives and several cooperative development centers. She has a master's degree in management from the University of Mary, Bismarck.

She will work with the executive committees of both councils as well as a Water Wisdom Granting Committee, which will provide direction and oversight of the grant funds. This committee will consist of two members from each Council, the chairs of both Councils and the project director. This 319 Granting Committee will meet monthly each year, with 11 of the meetings via teleconference and one in-person meeting. In addition, the full boards of each Council will review Water Wisdom Granting Committee reports at each of its quarterly yearly in-person meetings.

The 319 program director will direct policy, review activity proposals and receive updates on project activities. The director will also work closely with project sponsors to provide assistance for planning and implementation of program activities and will regularly monitor and evaluate progress and outcomes from these activities throughout the three-year project.

4.0 COORDINATION PLAN

4.1 Lead project sponsor and cooperating organizations

The lead sponsors of the North Dakota Water Wisdom Program are Dakota Prairies RC&D Council, Bismarck, and Dakota West RC&D Council, Dickinson. For paperwork purposes, Dakota Prairies RC&D is the lead applicant. Responsibilities include overall project and fiscal administration of this project.

Dakota Prairies and Dakota West will work with its member organizations and its cooperating organizations to plan and implement all objectives and tasks. The Councils contract with Susan L. Davis to provide executive director services to both Councils. Davis will also be the program director and will lead many of the work tasks. A program coordinator will be hired as necessary to assist Davis in carrying out the work.

Dakota Prairies/Dakota West will have a memorandum of agreement with each of its member organizations and other cooperative partners to carry out the activities of this project.

Cooperating organizations include the members of each Council, particularly the soil conservation districts, along with other partnering organizations. They are as follows:

- *Dakota Prairies RC&D Council:* Organized in 1970, this RC&D has a 23-member board and meets quarterly in Bismarck. It serves the 10 counties of Burleigh, Emmons, Grant, Kidder, McLean, Mercer, Morton, Oliver, Sheridan and Sioux. We have the commitment from the SCD and WRB members to participate in all the planning activities, as well as the local events. The 23 member organizations of Dakota Prairies RC&D Council are:

1. Burleigh County Commission
2. Burleigh County Soil Conservation District
3. Burleigh County Water Resource District
4. Cedar Soil Conservation District
5. Emmons County Soil Conservation District

6. Grant County Commission
7. Grant County Soil Conservation District
8. Kidder County Commission
9. Kidder County Soil Conservation District
10. McLean County Commission
11. Mercer County Commission
12. Mercer County Soil Conservation District/Water Resource District
13. Morton County Commission
14. Morton County Soil Conservation District
15. Morton County Water Resource Board
16. Oliver County Commission
17. Oliver Soil Conservation District
18. Sheridan County Commission
19. Sheridan County Soil Conservation District
20. Sioux County Commission
21. South McLean County Soil Conservation District
22. Standing Rock Sioux Tribe
23. West McLean County Soil Conservation District

■ *Dakota West RC&D Area:* This council is governed by a 17-member board, with a representative from each member organization and three at-large directors. Dakota West was organized in1992. This council serves the eight southwestern counties of Adams, Billings, Bowman, Dunn, Hettinger, Golden Valley, Slope and Stark. We have the commitment from the SCD and WRB members to participate in all the planning activities, as well as the local events. The 14 member organizations of Dakota West RC&D Area are:

1. Adams County Soil Conservation District
2. Bowman/Slope Soil Conservation District
3. Central Stark Soil Conservation District
4. Dickinson Research Extension Research Center
5. Dunn County Soil Conservation District
6. Dunn County Water Resource District
7. Golden Valley Soil Conservation District
8. Golden Valley Water Resource Board
9. Hettinger County Water Resource District
10. Slope-Hettinger Soil Conservation District
11. Southwest Water Authority
12. Stark County Water Resource District
13. Three Affiliated Tribes
14. Western Soil Conservation District

■ *USDA Natural Resources Conservation Service (NRCS):* This program will seek technical assistance in planning and implementing all of its training and educational activities. We will seek out Mary Podoll, state conservationist (or someone she designates), to be a member of the planning committees for activities 1 and 2. In addition, we have a commitment from Jay Fuhrer, soil health specialist for NRCS, for coordination of the soil health workshops.

- *NDSU Extension Service:* We will seek technical assistance and instruction for project workshops, demonstrations and manuals by engaging NDSU Extension Service personnel in the planning committees for activities 1 and 2. Further, The NDSU Extension Research Center at Dickinson is a member of Dakota West, represented by Dr. Kris Ringwall, director of the center.

- *North Dakota Department of Health:* Personnel will oversee Section 319 funding, serve in an advisory capacity for the 319 Granting Committee and assist with planning and implementation of educational events when possible.

- *USDA Rural Development-North Dakota:* We will seek advice and technical assistance when possible. USDA Rural Development is committed to helping improve the economy and quality of life in rural America.

- *North Dakota Grazing Lands Coalition (NDGLC):* We will partner with NDGLC to plan, fund and carry out a major statewide water quality-related advanced grazing planning workshop during the three-year grant period. Joshua Dukart, NDGLC's director, is a certified educator of holistic management and who speaks and teaches regularly throughout the United States and Canada. He has more than 10 years of expertise and teaching in grazing issues as they relate to water quality and the NDGLC's mentors each have an average of about 20 years of grazing management experience.

- *Burleigh County SCD/Menoken Farm:* We will partner with the leaders of the Menoken Farm project (funded in part through the 319 Program), to plan and carry out a series of two soil health workshops in our two regions on south central and western North Dakota. These two workshops, which will feature hands-on soil health demonstrations as developed at Menoken Farm, will be held during the first two years of the project. A third will be added in the final year if funding and time permit.

4.2 Local support for the project

During September board meetings of both Councils, member organizations voiced strong support for this new project and participated in the proposed plan of work. They also showed support for the project by participating in an electronic survey in mid-August on what their water quality needs are in their areas. Dakota Prairies and Dakota West RC&Ds are made up of 18 SCDs; 9 county commissions; 8 WRBs; 2 tribal nations and 1 North Dakota Extension Service research center. The 37 RC&D members, through their recent participation in board meetings and an electronic survey, have committed to the 40 percent non-federal match required in the use of EPA 319 funds.

There is strong support from the members of Dakota Prairies RC&D and Dakota West RC&D, as well as collaborators and partners. We have gathered more than 12 support letters from members at the time of this writing and more are expected. We also have letters of commitment, support and/or collaboration from our three close partners on this project: 1) Burleigh County SCD/Menoken Farm; 2) North Dakota Grazing Lands Coalition; and 3) USDA Natural Resources Conservation Service.

Linn Berg, chair of the Burleigh County SCD, pledges support and collaboration to this application. "We support reaching a statewide audient through the…proposed regional soil health workshops and the state workshop and support the continuation of the local water quality-related events and demonstration projects," he says.

Jay Fuhrer, formerly the district conservationist for Burleigh County SCD and now a soil health specialist with NRCS, has committed to provide planning assistance and training leadership for the two soil health workshops under this project. Fuhrer continues his leadership with the Burleigh County SCD's Menoken Farm, which provides on-site hands-on demonstrations of the importance of soil health

"The findings from the Menoken Farm educational site will be available at these regional workshops through Jay Fuhrer, NRCS Soil Health Specialist," Berg writes.

In its letter of support and commitment, Darrell Oswald, chair of the North Dakota Grazing Lands Coalition, also pledges a $5,000 cash commitment for the advanced grazing planning workshop that will draw people from across North Dakota. "We pledge our expertise and assistance in arranging and holding this world-class grazing workshop," Oswald says in his letter. The cash commitment is "to help secure a nationally-recognized grazing expert to lead this advanced and targeted land management event." The letter also states NDGLC supports and is committed to sharing its collective grazing expertise on the planned comprehensive training manual.

In her letter of collaboration, State Conservationist Mary Podoll, says NRCS support this application's objective of reaching a statewide audience through the proposed regional soil health workshops and one major statewide grazing workshop. "These activities integrate the NRCS mission of 'Helping People Help the Land." She adds that "the funding through a NPS Water Quality Grant for Dakota Prairies RC&D, in partnership with Dakota West RC&D, is key to continued water quality and soil health advancement." According to Podoll in her letter, without the funding support that is made possible through the 319 Water Quality Grant to Dakota Prairies, many of the small local events would disappear and many rural residents of the 18 counties served by these two councils would not have access to water quality education.

(See Attachment D for the letter of $5,000 cash match commitment from NDGLC and the letters from Burleigh County SCD and NRCS)

The letters of support from our membership has flowed in from SCDs, WRBs, Extension Service offices and county commissions. Many of these members have sustained popular and important local water quality events due to the current 319 grant that Dakota Prairies received.

One example is Southwest Water Authority in Dickinson, which will receive 319 funding through Dakota Prairies RC&D to help sponsor its 2014 "Make a Splash" Water Festival. This 15th annual event drew a record 550 fifth-grade students from 18 school in the Southwest Pipeline Project Service Area. There were 12 education stations promoting the awareness, appreciation, knowledge and stewardship of North Dakota's water resources. At Family Night, more than 400 people attended the celebration of water. "It is through funding partners such as Dakota Prairies RC&D and Dakota West RC&D that Southwest Water Authority is able to continue to hold this quality educational event for the 12 counties of southwest North Dakota," says Kaylee Lapp, public relations specialist for Southwest Water Authority. "Informed citizens begin with education and this education begins with our youth."

In other members' letters of support, there is wide excitement and interest in the plan to "train the trainers" in a comprehensive agriculture-related NPS water pollution first geared toward SCD and WRB employees and then a wide diverse audience.
"Providing water quality training to the staff of soil conservation districts and water resource districts will allow us to educate a diverse audience—from teachers to landowners and from lawmakers to ag lenders," said Rhonda Vetsch, district administrator for Emmons County SCD and the current treasurer for Dakota Prairies RC&D Council.

Sue Isbell, the Sioux County Extension agent, said, "We are pleased that the training will be offered to our tribal community of Standing Rock Sioux Tribe, where water quality is a major issue." Isbell also especially likes and supports the soil health workshops as they especially tie in with the Standing Rock community garden projects funded through the North Dakota Specialty Crop Block Grant Program. "We struggle with soil health issues on the reservation and this training and education will be valuable to move our goal of fresh local foods," she added.

4.3 Coordination with other education programs

Existing watershed program educational activities are limited to those watershed project areas. The 18 counties we serve have a great deal of need for information and education outside of those watershed areas. We will coordinate with active watershed projects such as Spring Creek Watershed, Coyote Creek Watershed and Cannonball/Dogtooth Watershed, to provide producer-driven educational events that will complement both projects' objectives. We will also reach out to and coordinate with other 319 I&E projects (Statewide ECO Ed Program, TREES, Envirothon, Ranchers Mentorship Program, Menoken Farm and NDSU Nutrient Management Education Support Program) and non-319 funded NPS education programs to allow us to complement and expand on our projects and to reach a larger audience. We have a commitment from Jay Fuhrer, a soil health specialist with NRCS and project director of Menoken Farm, to provide assistance with the soil health workshops. We also have a commitment for a $5,000 cash match and coordination assistance from NDGLC on the statewide grazing workshop and grazing toolbox review and planning.

4.4 Similar activities in project area

After numerous discussions with our members, partners and the North Dakota Department of Health/Division of Water Quality, we determined that this project does not directly duplicate efforts of other organizations in the 18 counties served by Dakota Prairies RC&D and Dakota West RC&D. By involving local grassroots natural resource organizations, our project is designed to enhance the water quality education in North Dakota. Our two RC&Ds partner closely with our members, which includes several districts with watershed projects, on this water quality work. Our members consist of 18 SCDs, 9 county commissions; 8 WRBs; and two Native American tribes. In addition, we collaborate or partner with NRCS, NDSU Extension, The North Dakota Department of Health and North Dakota Grazing Lands Coalition. These close partnerships and collaborations will allow us to learn of any similar activities in our project area. To avoid duplication with our proposed comprehensive training module, we will contact and hold discussions with the current 319 watershed & 319 I&E projects to coordinate our efforts and to make sure that there is no overlapping of services or service areas.

5.0 EVALUATION AND MONITORING PLAN

5.1 Plans for evaluating project goals, objectives and tasks

Outcome evaluations will be conducted throughout the project period, as activities are completed, to determine the effectiveness of the project and to determine that the project objectives are being met. Our plans for evaluating project objectives are as follows:

- *Objective 1:* The board of Dakota Prairies RC&D Council will conduct a written evaluation of the project director's performance at the start of the second year of this project.
- *Objective 2:* A final feasibility study on a comprehensive ag-related water quality training module and deploying that training will serve as the evaluation of this objective and its related tasks.
- *Objective 3:* Each participant will be asked to fill out a written evaluation form during the two soil health workshops and the one statewide advanced grazing planning workshop. The results will be compiled, evaluated and distributed to members, partners and the North Dakota Department of Health.
- *Objective 4:* Members of Dakota Prairies and Dakota West requesting financial assistance for local water quality-related learning events or demonstration projects will be required to document information that will include a detailed description of the event or demonstration. A project application is required and will be reviewed by the Ad Hoc Granting Committee. Member sponsors will also be required to send in thorough documentation for each event or demonstration project. This would include costs, advertising, final results, number of people involved and/or receiving water quality-related information. When feasible, we will require the member sponsors of these events and demonstrations to conduct a written evaluation at the end of each event. *(See Attachment E for the FY2012 proposed activity request form and the reimbursement voucher. These forms will be streamlined for FY2015.)*

5.2 to 5.4 Demonstration project monitoring

Non applicable.

5.5 How and when data will be stored, managed and reported

Not applicable.

5.6 Any models used

Non applicable.

5.7 Long-term funding plan for operation and maintenance of activities

We plan to form a funding committee in early 2015 to begin developing a long-term funding plan so we are able to sustain our important NPS pollution prevention and reduction information and education programs. This committee is expected to explore options such as: 1) Fee for service income, especially for training sessions and workshop; 2) a substantial increase in yearly dues paid by the 37 members of Dakota Prairies RC&D and Dakota West RC&D; 3) other state or federal grants; 4) donations from resource conservation entities; and our goal is to create a Funding Committee, which we envision will be made up of four members from each of our RC&D Council boards.

6.0 BUDGET

BUDGET TABLE FOR WATER WISDOM PROJECT

Part 1 – Funding sources	**2015/16**	**2016/17**	**2017/18**	**TOTAL**
EPA SECTION 319 FUNDS				
1) FY15 Funds (FA)	$48,837	$46,949	$49,214	$145,000
Subtotals	**$48,837**	**$46,949**	**$49,214**	**$145,000**
OTHER FUNDS				
Subtotals	**$0**	**$0**	**$0**	**$0**
STATE/LOCAL MATCH				
1) Dakota Prairies & Dakota West RC&D Council and their members, SCDs and WRBs (TA & FA) and project partners, including NDGLC	$32,558	$31,300	$32,809	$96,667
Subtotals	**$32,558**	**$31,300**	**$32,809**	**$96,667**
TOTAL BUDGET	**$81,395**	**$78,249**	**$82,023**	**$241,667**

FA: Financial assistance

TA: Technical assistance

SCD: Soil Conservation District

WRB: Water Resource Board

RC&D: Resource Conservation & Development

NDGLC: North Dakota Grazing Lands Coalition

*NDGLC will give a $5,000 cash match. All other match is in-kind and includes personnel time; personnel travel and other expenses; training; and local water quality training event expenditures. A majority of the match will come from the SCDs and WRBs that are members of Dakota Prairies RC&D and Dakota West RC&D

WATER WISDOM Educational Information and Education PROGRAM
Part 2 – Funding

Section 319/Non-federal budget	2015/16	2016/17	2017/18	Total Costs	Cash Match	In-kind Match	319 Funds
OBJECTIVE 1: Management leadership and support systems							
1) Effective leadership (program director)	12,000	12,000	12,000	36,000	0	0	14,400
2) Support services							
Office rent	7,920	8,400	8,760	25,080	0	0	10,032
Travel	7,400	7,400	7,400	22,200	0	15,000	8,880
Equipment/supplies	4,300	2,100	1,400	7,800	0	5,000	3,120
Training	2,500	2,500	2,500	7,500	0	7,865	3,000
Telephone and Internet	*1,973*	*1,973*	*1,974*	5,920	0	0	2,368
Subtotals	**$36,093**	**$34,373**	**$34,034**	**$104,500**	**0**	**$27,867**	**$41,800***
OBJECTIVE 2: Organizational work on a comprehensive ag-related water quality training module							
3) Create steering committee	2,000	0	*0*	2,000	0	800	1,200
4) Review and plan training module	7,000	7,000	7,000	21,000	0	8,400	12,600
5) Review and plan BMP toolbox publication	2,000	2,000	2,000	6,000	0	2,400	3,600
Subtotals	**$11,000**	**$9,000**	**$9,000**	**$29,000**	**$0**	**$11,600**	**$17,400**
OBJECTIVE 3: Two North Dakota western BMP soil health workshops and 1 statewide grazing BMP workshop							
6) Plan and hold 2 regional soil health workshops	10,000	10,000	0	20,000	0	8,000	12,000
7) Review and plan soil health BMP toolbox publication	1,000	1,000	1,000	3,000	0	1,200	1,800
8) Plan and hold 1 advanced grazing planning workshop	1,000	1,000	15,000	17,000	5,000	18,00	10,200
9) Review and plan grazing BMP toolbox publication	1,000	1,000	1,000	3,000	0	1,200	1,800
Subtotals	**$13,000**	**$13,000**	**$17,000**	**$43,000**	**$5,000**	**$12,200**	**$25,800**
OBJECTIVE 4: Local water quality events							
10) Local water quality education programming	33,334	33,333	33,333	100,000	*0*	40,000	60,000
Subtotals	**$33,334**	**$33,333**	**$33,333**	**$10,000**	**$0**	**$40,000**	**$60,000**
TOTAL 319/Non-Federal Budget	**$93,427**	**$89,706**	**$93,367**	**$276,500**	**$5,000**	**$91,667**	**$145,000**

**Personnel/support at 40 percent reimbursement; objectives at 60 percent reimbursement*

ATTACHMENT A

Past Accomplishments

PAST ACCOMPLISHMENTS

Partnership for Improved Water Quality
Information & Education Program

Dakota Prairies RC&D, in partnership with Dakota West RC&D, is in its third and final year of its Partnership for Improved Water Quality Information & Education Program.

Accomplishments to date (June 1, 2012 to Sept. 30, 2014) under this program are as follows:

Program coordination and administration services

Dakota Prairies RC&D Council provides the equivalent of a .5 FTE for the management and oversight of this grant. Mary Stevenson served in this capacity until October 2014. Then, in late December 2014, Susan Davis was hired under a contract to provide executive director and 319 program director duties to Dakota Prairies.

Conference calls and ad-hoc committee meetings are conducted on an as needed basis to discuss project activity proposals, review the project's budget and approve any adjustments necessary to maintain the project's integrity and effectiveness. In addition, the ad hoc committee is contacted between meetings for consultation on project issues as the need arises. RC&D staff, also, provides project support to participating organizations for on-going training needs and to inform project participants about upcoming events, policy changes, and other pertinent information.

RC&D staff also assists and advises participating organizations with project development and activity requests; and they track and report project results.

Fund administration activities include assisting participating organizations with the completion of reimbursement vouchers, preparing cumulative reimbursement requests; monitoring project expenditures; and preparing financial reports for the Ad Hoc Committee, RC&D Councils and NDDH.

Outreach information

Dakota Prairies awarded four outreach subgrants to one member organization since the beginning of this grant period in 2012. West McLean Soil Conservation District received partial reimbursement for two newsletters, as well as one McLean County Ag Show and One Soil & Water Stewardship Week.

The two newsletters, published in late 2013 and one in 2013, were mailed to a total of 1,130 people. Following these two approved newsletter projects, no further newsletters were funded at the recommendation of the North Dakota Department of Health.

The 2012 fall newsletter featured a front-page article on Richard and Linda Berg, the 2012 soil conservation achievement winners from the SCD. It also included multiple photos and a short article on the West McLean SCD 7th Grade Tour and an order form for machine or hand-planted trees.

The spring/summer 2013 newsletter featured the district 2012 award winners, which went to Bryan, Ashley, Amanda and Nathan Hauf for the Established Tree Care Award and to Chris, April, Austin and Alexis Magruder for the Young Tree Care Award. Also included in this newsletter was an annual report of activities and accomplishments, as well as 2012 contracts approved and 2012 practices applied.

Through 319 funding, McLean County SCD was able to host a booth during the 2013 McLean County Ag Show, which was attended by more than 300 community members. The SCD's booth featured displays and a presentation on water quality and other conservation practices. Because the Ag Show was sponsored by the FFA chapter, McLean County SCD was able to reach high school students with its messages, which included invasive weeds, CSP, cover crops, no-till, agriculture waste systems, livestock watering tanks and pipelines.

The Soil & Water Stewardship Week held in April and May of 2013 involved provided 500 packets of materials on "Where Does Your Water Shed?" and was sponsored by the National Association of Conservation Districts. West McLean distributed 500 soil and water stewardship material packets to area clergy and libraries that included enough sheets and placemats for 700 students in kindergarten through sixth grade.

Workshops, field events, sponsorships, and camps

To date under the current 319 grant, 23 events have been held that have provided water quality information and education to about 6,725 residents of North Dakota. Of this amount, about 2,540 have been students. The events include the following:

Burleigh County SCD – 2013 soil health workshop

Held Jan. 8, 2013, this "Advancing Soil Health" was held in Bismarck. Guest speaker was Davis Brandt of Brandt Farms of Carroll, Ohio, who talked about "Building Better Soils." Other speakers included Paul Brown, Joshua Dukart, Jay Fuhrer and Jonathan Lundgren.

- *Media and printed resources*: 1.3 newsletters, two displays and 68 radio ads were developed for this event, for a total distribution of 681.
- *Workshops, tours and trainings*: The workshop drew 424 participants of which 100 were students and three were instructors.

Burleigh County SCD – 2014 soil health workshop

This one-day workshop Jan. 23, 2014, taught about building healthy sols and improving nutrient efficiency to producers, college students and agency personnel. The theme was "Finding Our Path" and the event was held in Bismarck. Main speakers were Dr. Rick Haney, an ARS soil scientist from Texas, and Ray Archuleta, a soil health specialist/agronomist from North Carolina.

- *Media and printed resources*: Two newsletters were developed, with a total distribution of 620 each.
- *Workshops, tours and trainings*: A total of 370 attended this 2014 event.

Cedar SCD – 2013 Earth Day Festival

This April 25, 2013, event showed Bismarck fifth-grade participants how important it is to have clean/clear water for usage and to find alternatives to harmful chemicals that are used every day. Planning committee members include representatives from USDA Agricultural Research

Service, the State Water Commission, US Forest Service, North Dakota Department of Health, North Dakota Game & Fish and North Dakota Parks and Recreation.

- *Media and printed resources*: There were printed flyers to all the Bismarck public schools on three separate dates and three sign rentals at three locations—JC Park, YMCA and McCabe Church. In addition, close to 5,000 printed resources were done, including newsletters, posters and brochures.
- Workshops, tours and trainings: During the 2013 event, about 640 fifth-grade students attended the approximately 15 environmental education sessions during the day. The student events were staffed by about 34 presenters/monitors. Then, about 1,200 attended the evening events open to the general public.

Cedar SCD – 2014 Earth Day Festival

The Bismarck Public Schools bused middle school students from all the Bismarck public schools to the McCabe Methodist Church, the new location for the 2014 annual event. Free trees were given away and booths and demonstrations were available for this April 24, 2014, event.

- *Media and printed resources*: The total for all media and print resources was 5,187. A total of two newsletters were developed with a distribution of 684. For the two posters that were created, a total of 2,500 were printed and distributed. One brochure was developed, with 2,000 printed and distributed. *Three* visits to TV and radio stations were also conducted.
- Workshops, tours and trainings: Because of extra committee members to help distribute posters and brochures, the number of students attending the 2014 event increased by about 80 over the previous year. The day's event drew 800 students and had 40 presenters/monitors and the evening public event drew 1,600 people. A total of 18 environmental education sessions were held for the students.

Golden Valley SCD – Phil Needham Clinic

This one-day seminar July 2, 2013, focused on improving soil health, reducing soil compaction, better crop residue distribution to recycle nutrients faster and how to use less fertilizer more efficiently. The featured speaker was Phil Needham of Needham Ag Technologies of Kentucky. The target audience was farmers in Golden Valley County and bordering counties and the event was held in Beach.

- *Media and printed resources*: One newsletter, one brochure and one display were developed and distributed to 1,300 potential participants.
- *Workshops, tours and trainings*: The workshop and tour both had 20 participants, of which two were instructors.

Golden Valley SCD – Holistic resource management class

During this two-day event in February 2014, Josh Dukart showed producers how rangeland/pasture, soil health and water quality and quantity can be improved to increase their bottom line.

- *Media and printed resources*: One newsletter, posters and one brochure were developed and distributed to 1,000 potential attendees.
- *Workshops, tours and trainings*: The one workshop had a total of 23 participants, including 2 instructors.

Kidder County SCD – Women in Agriculture Evening
Held April 10, 2014 in Steele, this educational event for women featured a water quality demonstration model, the enviroscape.

- *Media and printed resources*: Printed flyers were mailed to about 170 area women.
- *Workshops, tours and trainings*: About 60 women attended the evening event.

Manitoba-ND Zero Tillage Farmers Assoc. – 2012 Zero Tillage Workshop/Trade Show
This "Sustainable Ag Through Zero Till" Workshop was held Jan. 9-11, 2012, at Minot. Speakers for this 34th annual event included Dwayne Beck, Bill Crabtree, Jill Clapperton, Sarah Singla and Karl Kupers.

- *Media and printed resources:* 325 posters, 160 newsletters; 900 brochures, 13 print ads, 205 spot ads, 20 radio ads and 300 printed workshop/trade show books.
- *Workshops, tours and trainings:* There were 235 participants attending.

Manitoba-ND Zero Tillage Farmers Assoc. – 2013 Zero Tillage Workshop/Trade Show
The 2013 zero till event was held Jan. 8-10 at Bismarck. "No Till: An Evolution Towards Sustainable Ag" featured such speakers as Mark Anderson, James Hoorman, Dr. Shannon Osborne and David Montgomery. Topics included nutrient and pest management, crop rotations, soil and water quality improvement practices, precision farming and carbon sequestration strategies.

- *Media and printed resources:* 8 print ads, 296 spot ads, 3 radio ads and 300 printed workshop/trade show books.
- *Workshops, tours and trainings:* There were 275 participants attending, which included farmers, Extension agents and researchers from the United States and Canada.

Manitoba-ND Zero Tillage Farmers Assoc. – 2014 Zero Tillage Workshop/Trade Show
On Jan. 6-8, 2014, the 36th annual event was held at Minot. The name of this year's workshop and trade show was "Unlock your Soil's Full Potential." Speakers included Barry Todd, Yvonne Lawley, Jon Stika and Larry Cihacek. The pre-registration fee was $150 with registration at the door at $175. An annual zero till membership is $50.

- *Media and printed resources:* A total of 301 radio and print ads were developed and one brochure, which was distributed to about 1,000. Workshop/trade show books were also produced and numbered about 225.
- *Workshops, tours and trainings:* There were 200 participants, which included 6 students and 14 instructors.

Mercer County SCD – 8th grade Soil & Water Conservation Tour
All eighth-grade students in Mercer County participate in this tour on Sept. 4, 2014, that consists of six stops that demonstrate actual soil and water conservation practices, including soil quality/health and water quality. The water quality stop also featured water sampling information, which introduced them to water quality issues. It also makes them aware of the activities of the Spring Creek Watershed project and other watersheds in the county.

- *Media and printed resources:* A total of 10 letters were sent to each county school and tour guides.
- *Workshops, tours and trainings:* A total of 58 people participated in the event. Of these, 48 were students and six were instructors.

(2) Oliver SCD – Producer Meeting

Two producer meetings were held—one on Feb. 22, 2013, and one on Feb. 27, 2014. The 2013 event was held at the Betty Hagel Memorial Civic Center and included sessions on pulse crops, soil biology basics and relationship to agriculture production and calving dates. The 2014 event, "Building the Bottom Line," featured sessions on nutrient cycling and Solvita tests, current market trends and strategies for a custom grazing operation.

- *Media and printed resources:* A total of two newsletters were produced—one for each event.
- *Workshops, tours and trainings:* A total of 42 participated in the 2013 event. The 2014 event had 30 participants of which six were presenters.

(2) Oliver SCD – Ladies Ag Night

This SCD planned and hosted two of these popular events—one on March 28, 2013, and one on April 29, 2014. The 2013 event featured Tom Gibson, who gave a presentation on habitat and pollution related to water. The 2014 event featured Jim Collins with the North Dakota Department of Health with his presentation, "Watersheds: Personal Choices, Water Quality Impacts." He explained watershed, which ones we live in and how our everyday action affect the water quality in our streams, lakes and rivers. He also looked oat one method to determine the quality of water.

- *Media and printed resources:* The 2013 events was featured in three newsletters and the 2014 event in one newsletter.
- *Workshops, tours and trainings:* Of the 125 participants in 2013, 10 were students and three were instructors. Of the 125 participants in 2014, 13 were students and one was an instructor.

Sheridan County SCD – Spring Fling Event

This event was held May 8, 2013, and co-hosted by the Sheridan County Extension Office. The agenda included various topics in water quality, including "Water quality in Your Yard." Presenters included Darci Gahner and Tom Kalb.

- *Media and printed resources:* A total of 200 newsletters promoting the event were mailed out and one print ad was placed in the local newspaper.
- *Workshops, tours and trainings:* There were a total of 85 participants in the event, of which four were instructors.

(2) Sheridan County SCD – 7th Grade Conservation Tour

Two conservation tours for seventh-graders were held—one Sept. 20, 2012, and the other Sept. 9, 2013. Both were held at the Lonetree Wildlife Management Area south of Harvey and co-hosted by North and South McHenry County. The students traveled between five sites: 1) Water quality; 2) conservation; 3) forestry; 5: wildlife; and 5) rangeland. The instructors did hands-on demonstrations at each of the five sites. One of the demonstrations was a steam table to demonstrate how our river systems work. Jim Collins of the North Dakota Department of Health showed how sediment, vegetation and flowing water interact to form river channels. The stream table shows students how well vegetative river banks help protect property, fish and wildlife.

- *Media and printed resources: Multiple e-mails sent to schools.*
- *Workshops, tours and trainings:* The 2012 tour had 104 participants of which 82 were students and five were instructors. The 2013 event drew 96 of which 78 were students and five were instructors.

West McLean SCD – 7th Grade Conservation Tour
Students from three schools, Garrison, Max and White Shield, began the Sept. 26, 2012, tour at the Audubon National wildlife Refuge. They rotated between four sites covering noxious weeds/rangeland, soil, water quality and wildlife habitat. Instructors performed hands-on demonstrations at each site. Following the tour, students were tested on the information they learned.

- *Media and printed resources:* Schools were contacted via e-mail and phone.
- *Workshops, tours and trainings:* Participants in this 2012 event totaled 79, of which 61 were students and 4 were instructors.

(2) Western SCD – Diversity, Direction & Dollars Ag Forum
Western SCD held two of these forums—one Jan. 15, 2013, and one Jan. 14, 2014. These 17th and 18th annual forums for regional producers featured presentations about wheat stages and nitrogen; weed resistance and chemical rotation for the future; effectively using insecticides; and what's in store for the weather. The producers gained information that will provide them with a better management tool for their cropping program. This will, in turn, benefit the soil and water resources. Soil erosion is an NPS water pollution which can be reduced through improved cropping systems. Applying the nutrients and pesticides at the proper tie will benefit the plant, soil and water resources.

- *Media and printed resources:* Schools were contacted via e-mail and phone.
- *Workshops, tours and trainings:* Participants in the 2013 event totaled 102 and participants in the 2014 event totaled 100.

Demonstration projects

As of the end of September 2014, all eight of the approved demonstration projects have been conducted and only one (Emmons) remains to be reimbursed. Moe than 140 producers have benefited from the demonstration projects that have affected more than 146,000 acres of land.

The eight projects, broken out by the six Dakota Prairies and Dakota West members who conducted them, are as follows:

Adams County SCD – Weed wiper demo
A 319 subgrant to Adams County SCD allowed this SCD to purchase a pull-behind weed wiper to control vegetation in new tree plantings. Having the weed wiper available to producers is reducing the costs to the tree owners, allowing them to make timely weed control applications, is reducing the chance of chemical drift and the resultant injury to desirable plants and is reducing the total amount of chemical used for tree plants.

- *Equipment purchased:* GrassWorks weed wiper 10-foot HD pull-type with taller tire package
- *Media and printed resources:* A total of 1,329 printed resources were distributed, which included 2 newsletter, 44 posters, 40 brochures, 2 displays and 2 newspaper ads.
- *Workshops, tours and trainings:* There were 235 participants attending two workshops, two training sessions and three community sessions. Ten were general participants and 5 were instructors. Adams County SCD also had a booth at the October 2012 KNDC Farm Show, the Lemmon Jr. Livestock Show/Sale and Farm & Ranch Show to promote the weed wiper.

■ *Land treated and protected:* A total of 83 invasive species had been managed across more than 340 acres throughout Adams County as of the end of 2012.

(2) Burleigh County SCD – Menoken Farm Soil Foodweb-Phase II

Two subgrants were given to the Burleigh County SCD to help fund equipment, materials and supplies to allow Menoken Farm to gear up for soil health on-site demonstrations.

■ *Equipment:* In late 2012, the third and final lease payment was made on a Sittler compost windrow turner model 509 with water wagon and crop spreader.

■ *Materials and supplies:* In 2012 a subgrant assisted Menoken Farm in paying for: 1) Cropping supplies and composting materials; 2) repairs/maintenance; 3) soil and biological tests; and 4) a no-till drill wheel.

Dunn County SCD – Trimble Yuma GPS demo

To keep up with the high demand for soil testing, Dunn County SCD was able to purchase a Trimble Yuma GPS with the help of a 319 subgrant. This more advanced GPS unit allows for creating and downloading zone maps and shape files so area producers can apply variable rate fertilizer on their fields, instead of fertilizing the whole field. This not only saves producers money, but reduces the possible contamination of groundwater due to excess chemical runoff.

■ *Equipment purchased:* Trimble Yuma with accessory kit and FarmWorks mobile.

■ *Land treated and protected:* From 2007 to late 2012, Dunn County SCD had performed soil testing for more than 60 producers, covering on average more than 45,000 acres a year.

Emmons County SCD – Chlorophyll demo

The objective of this demonstration project was to improve water quality by monitoring crop nitrogen uptake during the growing season and make necessary adjustments in nutrient applications. By using a chlorophyll meter, it also allows deficiencies in other plan nutrients, which restrict nitrogen update and utilization, to be corrected during the growing season.

■ *Equipment purchased*: SPAD 502DL Plus Chlorophyll Meter with Data Logger & RS-232

■ *Field test*: The field test was conducted on two separate sites with similar moisture in a cornfield owned by Wes Mastel. It was designed to compare chlorophyll meter reading against plant tissue and in-season soil N testing methods as a way to determine when, or if, a second fertilizer application should be applied in a split fertilizer application scenario. North Central Farmers Elevator conducted the 2013 soil samples, 2012 variable rate mapping and all commercial fertilizer applications. Emmons County SCD collected data and samples Aug. 28, 2014.

■ *Results:* Field visits on site one, with Noonan-Nobell-Williams loam soil and 0 to 6 percent slopes, showed tall robust corn plants, even spacing between plants, equal height among plants, similar sized cobs, ease in in using the soil probe to acquire 6-inch soil samples and similar soil moisture in both sites. The average chlorophyll meter reading was 61.0. On site two, which has Williams-Bowbells, loam soil and 3 to 6 percent slopes, the average chlorophyll meter reading was 591. However, site visits showed significant undulation of corn height, uneven spacing between plants, noted skips, similar cob size and difficulty reaching a 6-inch depth with the probe to acquire soil samples. The starter fertilizer and fertilizer split applications are on file.

Oliver County SCD – Cover crop demo

Oliver County SCD received a 319 subgrant to conduct a four-year demo plot east of Center off of Highway 25. Throughout those four years, tests were conducted at: 1) Fall seeded cover crops; 2) crops response after cover crops; and cover crops as a nurse crop for alfalfa. The purpose of the demo plot was to promote crop rotation, crop diversity and soil health.

- *Results:* Both fall and season-long cover crops were planted, as well as demonstrating the use of commercial fertilizer, manure and compost. This project demonstrated how crop rotation and diversity develop healthier sols and have better utilization of water while controlling runoff. It also showed how excess soil moisture was passing salts to the surface and how extending the cropping season helped use that water, thus avoiding some salinity issues.
- *Workshops, tours and trainings:* Several field tours were held in 2012 and 2013 to generate discussion on how rotations and other conservation practices can improve soil health.
- *Land treated and protected:* A total of 40 acres was involved in the cover crop demo project.

(2) South McLean County SCD – Residue conservation (supercoulter) & grass drill demos

South McLean County conducted two demonstration projects—a residue conservation (supercoulter) project starting in 2012 and a grass drill project during 2013 and 2014.

- *Equipment leased:* One supercoulter lease payment for 2012 and two lease payments for a FLX II 822 grass drill
- *Supercoulter results:* A total of 43 producers have benefited from the supercoulter on a total of 8,998 acres. Operated by Jerry Kraft or Jim Kraft, the supercoulter was used for 18 producers in 2013 and for 24 producers in 2014. The supercoulter helped maintain crop residues on croplands fields throughout the district for improved surface water quality, better soil health, increased water infiltration and reduced soil erosion. The program targeted cropland fields with flax, sunflower and grain corn residues. The supercoulter uses two ranks of cutting coulters on a disk-style frame that cuts and sizes crop residues as it is pulled across the field.
- *Grass drill results:* A total of 35 producers have benefited from the grass drill on a total of 1,766 acres. Operated by Jerry Kraft or Jim Kraft, the drill was used for 19 producers in 2013 and for 16 producers in 2014. The grass drill was used to seed native grasses and forbs, resulting in nutrients being put back into the soil, which benefits soil health, wildlife habitat and water quality. A Traux drill is designed to plant grasses and legumes on a variety of site conditions and can be done as no-till interseeding in most conditions.
- *Media and printed resources*: A total of four newsletters per year have been developed, printed and mailed to help let producers know the grass drill and supercoulter are available. Each newsletter is distributed to 700, so the total distribution has been 2,800 newsletters per year.
- *Land treated and protected:* These two pieces of equipment have been used on a total of 10,764 acres—8,998 acres of cropland and 1,766 acres of grazing land.

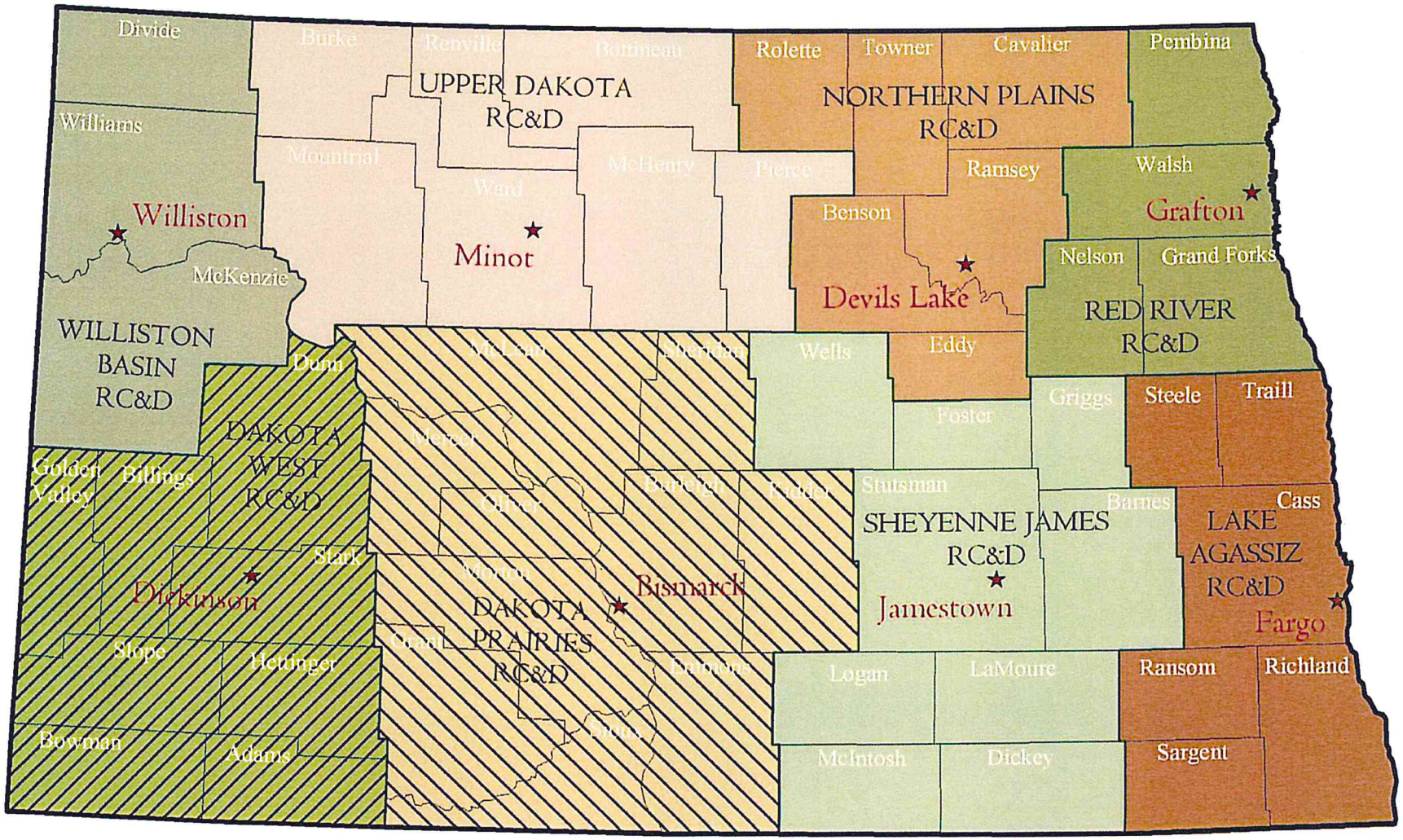
ATTACHMENT B

Map of Participating Counties

United States Department of Agriculture

NRCS Natural Resources Conservation Service

Resource Conservation and Development Areas in North Dakota



Revised April 2005

USDA-NRCS Bismarck State Office GIS Center, Bismarck, ND 2005

ATTACHMENT C

Milestone Table

MILESTONE TABLE
North Dakota Water Wisdom I&E Program

TASK/RESPONSIBLE ORGANIZATIONS	OUTPUT	QUANTITY	SFY15	SFY16	SFY17
Objective 1: Management leadership and support systems					
Task 1 - Effective leadership (program director) Group 1		1			
Task 2 - Support services (such as travel, supplies, training, phone) Group 1		1			
Objective 2: Organizational work on comprehensive NPS water pollution prevention training manual and training					
Task 3 - Create steering committee Led by Group 1, with assistance from Groups 2-6	Active, organizational steering committee	1			
Task 4 - Review and plan training module and training program Led by Group 1 with all groups participating	Completed organizational plan for training module & training	1			
Task 5 - Reiew and plan BMP toolbox publication Groups 1 and 2	Completed feasibility study of an overall toolbox for distribution	1			
Objective 3: Statewide soil health and grazing workshops					
Task 6 - Organize and hold 2 North Dakota regional soil health workshops Groups 1 and 2, with main assistance from Group 5	2 completed North Dakota regional soil health workshops	2			
Task 7 - Review and plan soil health BMP toolbox manual Group 1 in partnership with Groups 4 and 5	Study of soil health toolbox publication	1			
Task 8 - Organize and hold 1 statewide advanced grazing planning workshop Groups 1 & 2, with main assistance from Group 3	1 completed statewide advanced grazing planning workshop	1			
Task 9 - Review and plan grazing BMP toolbox manual Group 1, with main assistance from Group 3	Study of grazing toolbox publication	1			
Objective 4: Local water quality events and demonstrations					
Task 10 - Plan, organize ad hold local events and publicize events and results Group 1	Strong set of requests due to interest and marketing	30			

Group 1 - Dakota Prairies RC&D (DP) and Dakota West RC&D (DW) - Lead all work activities and administer grant funds through executive director/project director, Granting Committee and boards

Group 2 - DP & DW members and partners, including soil conservation districts (SCDs), water resource districts (WRDs), county commissioners and two tribes: Provide overall project planning, technical assistance and expertise on training manual/training; expertise on workshops; and lead work on local water quality education events and demonstration projects

Group 3 - North Dakota Grazing Lands Coalition: Provide technical assistance and expertise on training manual and advanced grazing planning workshop

Group 4 - USDA Natural Resources Conservation Service (NRCS): Provide technical assistance and expertise on training manual and soil health workshops and submit articles for newsletters and brochures as time permits.

Group 5 - Burleigh County SCD/Menoken Farm; Provide technical assistance and expertise on training manual and soil health workshops

Group 6 - North Dakota Department of Health: Assist with data collection and dissemination.

ATTACHMENT D

Local Support

Sept. 23, 2014

Greg Sandness, NSP Coordinator
North Dakota Department of Health/Water Quality
918 E. Divide Ave., 4th Floor
Bismarck, ND 58501

Dear Mr. Sandness,

The North Dakota Grazing Lands Coalition supports the "North Dakota Water Wisdom" project application being submitted by Dakota Prairies RC&D Council in partnership with the Dakota West RC&D.

We support the new Dakota Prairies grant application plan of work on expanding and strengthening the training on cropping and grazing best management practices as they relate to NPS water pollution prevention. Providing water quality training to the staff of soil conservation districts and water resource districts will allow this education to reach a diverse audience—from teachers to landowners and from lawmakers to ag lenders.

The North Dakota Grazing Lands Coalition supports and is committed to sharing its grazing expertise with Dakota Prairies and Dakota West on this comprehensive training manual that will be used to provide training and education to groups in their 18-county area in south central and southwestern North Dakota.

We also are committed to reaching a large North Dakota audience through the proposed statewide grazing workshop. We pledge our expertise and assistance in arranging and holding this world-class grazing workshop. In addition, we pledge a $5,000 cash commitment to help cover the workshop expenses. One of the largest grazing workshop expenses will be to secure a nationally-recognized grazing expert(s) to lead this advanced and targeted land management event.

Again, we support the request for funding through a NSP Water Quality Grant for Dakota Prairies RC&D, in partnership with Dakota West RC&D.

Sincerely,

Darrell Oswald

Darrell Oswald
NDGLC Chairman

BURLEIGH COUNTY SOIL CONSERVATION DISTRICT
916 EAST INTERSTATE AVENUE, SUITE 6
BISMARCK, ND 58503-0548
PHONE 250-4518, EXT. 3
Fax 855-561-7866
www.bcscd.com

Sept. 23, 2014

Greg Sandness, NSP Coordinator
North Dakota Department of Health/Water Quality
918 E. Divide Ave., 4th Floor
Bismarck, ND 58501

Dear Mr. Sandness,

We strongly support the "North Dakota Water Wisdom" project application being submitted by Dakota Prairies RC&D Council in partnership with the Dakota West RC&D.

As a member of Dakota Prairies RC&D, Burleigh County SCD, located in Bismarck, has used 319 grant funding to help conduct some major events that include annual soil health workshops, soil health garden tours and a winter grazing and feeding tour. All the events focused on water quality issues.

We are excited about and support the new Dakota Prairies grant application plan of work on expanding and strengthening the training on cropping and grazing best management practices. Providing water quality training to the staff of soil conservation districts and water resource districts will educate a diverse audience—from teachers to landowners and from lawmakers to ag lenders.

We also support reaching a statewide audience through the eight proposed regional soil health workshops and the statewide grazing workshop and support the continuation of the local water quality-related events and demonstration projects. In addition, the findings from the Menoken Farm educational site will be available at these regional workshops through Jay Fuhrer, NRCS Soil Health Specialist.

Again, we strongly support the request for funding through a NSP Water Quality Grant for Dakota Prairies RC&D, in partnership with Dakota West RC&D.

Sincerely,

Linn Berg, Chairman
Burleigh County SCD

District Supervisors

David Bauer Regan	Linn Berg Sterling	Todd McPeak Driscoll	Marlyn Richter Menoken	Seth Williams Wing

All programs and services of the Soil Conservation District are offered on a nondiscriminatory basis without regard to race, color, national origin, religion, sex, marital status, age or handicap.

USDA

United States Department of Agriculture

September 23, 2014

Greg Sandness
NPS Coordinator
North Dakota Department of Health/Water Quality
918 E. Divide Ave., 4th Floor
Bismarck, ND 58501

Dear Mr. Sandness:

Please consider this a letter of collaboration for the North Dakota Water Wisdom Project application being submitted by the Dakota Prairies RC&D Council in partnership with the Dakota West RC&D. Without the funding support that is made possible through the 319 Water Quality Grant to Dakota Prairies, many of the small local events would disappear and many rural residents of the 18 counties served by these two councils would not have access to water quality education.

We are excited about the new Dakota Prairies grant application plan of work on expanding and strengthening the training on cropping and grazing best management practices. Providing water quality training to the staff of soil conservation districts and water resource districts will help to educate a diverse audience—from teachers to landowners and from lawmakers to ag lenders.

We also support this application's objective of reaching a statewide audience through the eight proposed regional soil health workshops and one major statewide grazing workshop. These activities integrate the NRCS mission of "Helping People Help the Land". The request for funding through a NPS Water Quality Grant for Dakota Prairies RC&D, in partnership with Dakota West RC&D is key to continued water quality and soil health advancement.

Sincerely,

Mary E. Podoll

MARY E. PODOLL
State Conservationist

cc:
Dakota Prairies RC&D, 919 Seventh Street, Suite 310, Bismarck, ND 58504
Dakota West RC&D, 1041 State Avenue, Room 107, Dickinson, ND 58601

Natural Resources Conservation Service
PO Box 1458
Bismarck, ND 58502
Voice: (701) 530-2000 Fax: (855) 813-7556

Helping People Help the Land

An Equal Opportunity Provider and Employer

ATTACHMENT E

Proposed Activity Request Form and Reimbursement Voucher Form

PARTNERSHIP FOR IMPROVING WATER QUALITY INFORMATION & EDUCATION PROGRAM

PROPOSED ACTIVITY REQUEST

Estimated Activity Date->	

Name of Activity:	
County or Area Covered By Activity:	
Name of Participating Organization:	
Street Address:	
City, State, Zip:	
Name of Contact Person:	
Title:	
Phone Number:	

Description of Activity (Include how it relates to invasive weeds, target audience, number of participants, area, acres impacted, etc.)
**Include project proposed budget (see below). ***Also include an agenda, speaker information, if applicable to your activity:

From Estimated Budget Totals (page 2 below)				
	1. Estimated Project Cash Expenses:		3. Estimated Total Project Cost:	
	2. Est. Project Cash and/or Inkind match:		4.** Estimated Reimbursement:	

Participating Organization Signature:			
Title:		Date:	

This Section for RC&D Office Use Only!!

	Check appropriate Box YES	No
Is the applicant an eligible project participant?		
Does the proposed project provide public benefit?		
Does it primarily address water quality?		
Has this participating organization indicated in this proposal that they have the 40% non-federal matching funds necessary to complete this activity?		
Council / Committee Recommendation: Approved? (yes or no)---->		
** Actual reimbursement will be based on actual cash expenses and in-kind documented for the completed project. It could be less than, but never more than actual project cash expenses. RC&D reserves the right to cap total reimbursement for any project.	Capped Reimbursement?--->		
If a cap is applicable, that amount will be indicated here---------->	$		

Authorized Council signature:		Date:	

Page 2	Estimated Activity Budget		
Expenditure Category	Estimated Cash Expenses for Reimbursement From RC&D	Match Estimated Non-federal Cash and/or In-Kind	Estimated Total Project Cost (Federal contributions not included!)
Salaries/wages			
Fringe Benefits			
Travel			
Supplies & Materials			
Advertising & Promotion			
Speaker Fees			
Facility Rent			
Equipment			
Other (specify)			
Totals----->			

Please note: There will be a 15% fee assessed and subtracted from the actual project in-kind to cover the administrative costs related to this program.

REIMBURSEMENT VOUCHER
PARTNERS FOR IMPROVING WATER QUALITY PROJECT

Participating Organization:		Date of Activity:	
Activity Description:			

Part I. Actual Cash Expenditures

Note: 1) *Include copies of all invoices to support cash expenses; 2) List only cash expenses that are not reimbursed through other federal or non-federal sources.*

A. Salaries Paid to: (From time log)	Rate	Number of hours	Total	Subtotals
Totals from attached timesheet (If needed, attach Schedule D.) ------>				

B. Travel Costs - (Mileage & per diem Expenses)	Rate	Number of round-trip miles	Total	Subtotals
Totals from attached travel voucher (If needed, attach Schedule B.) ------>				

C. Materials/Supplies-	Single item price	Number of items	Total	Subtotals
Totals from itemized list (If needed, attach list) ------>				

D. Telephone and Postage Expenses	Single item price	Number of items	Total	Subtotals
Totals from itemized list (If needed, attach list) ------>				

E. Equipment Charges- (custom/lease rate)	Rate per Hr/Day	Number of Hrs/Days	Total	Subtotals
Totals from itemized list (If needed, attach list) ------>				

F. Other Expenses- (Facility charges, printing costs, speaker fees, or other non-categorized items)	Single item price	Number of items	Total	Subtotals
Totals from itemized list (If needed, attach list) ------>				
Total Project Cash Expenses---->				

REIMBURSEMENT VOUCHER
RC&D WATER QUALITY MENTORSHIP AND OUTREACH PROGRAM

Participating Organization:		Date of Activity:	
Activity Description:			

Part II. In-kind Contributions (Include all donated Cash,Labor, Equipment, Materials, Etc., from Non-Federal Sources)

Date	Name of Person, Business, or item	Description of Inkind services/contributions	Rate/Cost (from schedule E.)	Quantity (Hours, Acres, Ect.)	Total
Itemized totals from In-Kind Schedule A. (if needed, attach schedule) --->					
M. Total Allowable Project In-kind-->					

Signature of Sponsor Organization		Date:	

Part III. Project Summary and Reimbursement (Completed by RC&D Office!)

A. In-kind Transfer	From Whom ??	Amount	G. In-kind Transfer	To Whom ??	Amount
B. Inkind Balance from Previous Activities			H. Total Project Cash Expenses..		
C. Total In-Kind generated on this project			I. In-kind used for this voucher..		
D. Less 15% for Program Admin.) (.15 X C)			J. Total Project Cost (H+I)		
E. In-kind used for this voucher (I)			Total Project Reimbursement (.6 X J.) (Cannot Exceed Cash Expenses)		
F. Remaining in-kind Bal. (A+B+C-D-E-G)					

RC&D Staff Verification				
	Reviewed By:		Date Reviewed:	
	Verified By:		Date Verified:	

Voucher # Assigned to this Activity:		Check Number:		Date of Check:	

REIMBURSEMENT VOUCHER
RC&D WATER QUALITY MENTORSHIP AND OUTREACH PROGRAM

Part IV. Documentation of Activity/Project Outcomes (Benefits) *(Please fill out all that apply!)*

Media & Printed Resources:

Newsletters Developed	
Publications Developed	
Brochures Developed	
Displays Developed	
Radio & TV Adds Developed	
Total Distribution	

Workshops, Tours & Trainings:

Workshops Held	
Tours Held	
Training Sessions Held	
Community sessions Held	
Environmental Education Sessions Held	
Number of Tribal Citizens served	
Number of participants attending the above event	
Participants: General	
Participants: Students	
Participants: Instructors	
School Curriculum and Programs Created	

Land Treated & Protected:

Crop Land Treated for Soil Condition *(acres)*	
Grazing Land Treated for Soil Condition *(acres)*	
Crop Land Treated for Soil Erosion *(acres)*	
Grazing Land Treated for Soil Erosion *(acres)*	
Soil Saved *(tons)*	
Nutrients Reduced *(tons)*	
Land Preserved or Protected *(acres)*	
Invasive Species Managed or Treated *(acres)*	
Other:	

Community Development:

People Benefiting from New Technology	
Business Benefiting from New Technology	
Business Expanded	
Business Retained	
Jobs Created: Farm Related	
Jobs Retained: Farm Related	
Jobs Created: Non-Farm Related	
Jobs Retained: Non-Farm Related	
Citizens Served: Underserved or Underrepresented	
Disadvantaged Citizens Served	
Training Sessions Held: Leadership Development	
Training Sessions Held: Grant Writing	
Other Community Service Provided/Improved	
Grant Administration Service Provided/Improved	

Community Facilities:

Recreational Facilities Created	
Recreational Facilities Improved or Retained	
Tourism Area Established	
Tourism Area Improved or Retained	
Visitor Days Increased	
Rural Fire Protection Provided/Improved	
Service Provided or Improved: Healthcare	
Emergency Preparedness/Response Provided/Improved	
Watershed Plans Developed	

Watersheds:

Rivers & Streams Improved or Restored *(miles)*	
Water Bodies Improved *(acres)*	
Watershed Plan Acres Developed *(acres)*	
Shoreline Erosion Reduced *(ton)*	

Federal Activity costs related to this project (including reimbursements from other Federal agencies)

Agency / Value		Agency / Value		Agency / Value		N. Total Federal Activity Costs