Contract No. 005-071
“Sheyenne River Sedimentation Reduction Project Phase II”

Please Note that Contract 001-009 provided funding for Phase 1 of this multi-year project

Submitted by Barnes County Soil Conservation District
Principal Investigator: Lori Frank Jason Elston

Directive B

PARTICIPANTS

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Cost Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA Section 319 - cash</td>
<td>$400,200 (Phases 1 &amp; 2)</td>
</tr>
<tr>
<td>Resource Conservation &amp; Development (Technical &amp; Financial Assistance)</td>
<td>$5,000 (Phases 1 &amp; 2)</td>
</tr>
<tr>
<td>Natural Resources Conservation Service (Technical Assistance)</td>
<td>$5,000 (Phases 1 &amp; 2)</td>
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<tr>
<td>ND Department of Health (Technical Assistance)</td>
<td>$15,000 (Phases 1 &amp; 2)</td>
</tr>
<tr>
<td>Barnes County Soil Conservation District (Technical &amp; Financial Assistance)</td>
<td>$62,500 (Phases 1 &amp; 2)</td>
</tr>
<tr>
<td>North Dakota State University Extension Service (Technical Assistance)</td>
<td>$500 (Phases 1 &amp; 2)</td>
</tr>
<tr>
<td>Barnes County Rural Water Users (Financial Assistance)</td>
<td>$2,000 (Phases 1 &amp; 2)</td>
</tr>
<tr>
<td>Landowners</td>
<td>$346,800 (Phases 1 &amp; 2)</td>
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<tr>
<td>Subtotal Cash Cost Share</td>
<td>$837,000</td>
</tr>
<tr>
<td>Unknown (a portion of the landowners contribution maybe in-kind)</td>
<td>0 (in-kind)</td>
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<tr>
<td>Subtotal In-kind Cost Share</td>
<td>$0</td>
</tr>
<tr>
<td>North Dakota Industrial Commission (Phase I)</td>
<td>$126,000</td>
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<tr>
<td>North Dakota Industrial Commission (Phase II)</td>
<td>$200,000</td>
</tr>
<tr>
<td>Total Project Cost</td>
<td>$1,163,000</td>
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Project Schedule – 53 months (Phases I & II)

Contract Date – July 30, 2015 (Phase II)
Start Date – April 1, 2014 (Phases I & II)
Completion Date – September 30, 2018

Project Deliverables:
Status Report: December 31, 2015 ✓
Status Report: June 30, 2016 ✓
Status Report: December 31, 2016 ✓
Status Report: June 30, 2017 ✓
Status Report: December 31, 2017 ✓
Status Report: June 30, 2018 ✓
Final Report: September 30, 2018 ✓

OBJECTIVE/STATEMENT OF WORK:

Project is designed to provide technical, financial and educational assistance to all agriculture producers and landowners with riparian acreage and/or upland cropland at high risk of erosion within the Sheyenne River Watershed in Barnes County. Goal is to restore the aquatic life uses and to maintain the recreational uses of the Sheyenne River and its tributaries. Promote the use of best management practices to restore the aquatic life uses and to maintain the recreational uses of the Sheyenne River and its tributaries. OHF dollars will be used to reduce the landowner costs of implement best management practices by 60%.

The project will involve the following tasks:
1. Provide technical and financial assistance to producers/landowners within ½ mile of the Sheyenne River and its tributaries and to prioritize locations when outside the AnnAgnps priority areas.
2. Assist with best management practices that protect/enhance our riparian, crop, and non-crop acreage in high priority areas.
3. Develop education programs to heighten public awareness of non-point pollution impacts and solutions.
4. Develop working partnerships in the local community to benefit natural resources.

Funds will be used to reduce the sources of sedimentation within the priority areas, develop a water quality farm assessment focused on a systems approach for water quality management at the farm unit level, reduce E. coli concentrations, with a target concentration per sampling site of a geometric mean of 126 colonies/100 ml with less than 10% of the samples exceeding 409 colonies/100 ml. And lastly to carry out an information/education program to promote water quality awareness and best management practices.

**STATUS:**

**Contract 005-071 - Executed**

8/5/2015 - Three projects were funded involving - 20,668 feet of fencing and partial funding of streambank and shoreline stabilization of 190 feet (a portion of the costs for this last project came from Contract 001-009)

8/31/2015 - Work completed included cover crops for late fall grazing (photo posted on website)

9/30/2015 - Work completed included 330 acres of cover crops for late fall grazing and 1 artesian well sealing. Artesian well no longer in use was running through old feeding yard and then draining into a tributary less than ½ mile from Sheyenne River. (photos posted on website)

10/31/2015 - Work completed included 1275 feet of shallow pipeline and 1 watering tank installed. (photos posted on website)

11/30/2015 - Work completed included 11,630 linear feet of cross fence, 47 acres of rangeland planting and 2 each of spring fed watering facilities.

6/1/2016 - Work completed during the time period of 12/1/2015 to 5/31/2016 included 882 linear feet of fence to incorporate a rotational grazing system and 600-foot pipeline with watering tank to facilitate cattle rotation. In addition, there was pasture/hayland/range planting of 244 acres.

7/1/2016 - Work completed during the time period of 6/1/2016 to 6/30/2016 included the installation of 7571 linear feet of fence to incorporate a rotational grazing system, the installation of portable solar tank to facilitate better grazing distribution and the planting of 37 acres.

9/30/2016 - Work completed during the time period of 7/1/2016 - 9/30/2016 included cover crops seeded for soil health, cross-fence installed around last year’s range planting, cross-fencing for a 20-cell rotation system was installed and installation of pipelines, trough, tank and well.

10/31/2016 - The new Lake Ashtabula cabin owners encountered severe erosion issues left by the previous owners. The gullies were first filled with rock and packed with top-soil, then seeded heavily with a deep-rooted grass mix. Straw erosion blankets and erosion rolls were then installed to prevent further erosion until grasses were up and able to protect the area.

11/30/2016 - Work completed during period covered by report included fencing & waterers installed to facilitate a winter grazing system; cover crops planted after wheat harvest for late fall grazing; and cross fencing to facilitate a 20 cell rotational grazing system. (Photos posted on website)
12/31/2016 - The Status Report included photographs (see Status Report posted on website) and this narrative: Severely eroded waterway was feathered out and will be seeded to deep rooted grasses next spring. Contractor started work late fall & we ran out of time for seeding. Grassed waterway will trap soil sediment and prevent it from leaving the field and entering waterways.

9/30/2017 - The Status Report included photographs (see Status Report posted on website) for a fencing project to facilitate grazing rotation, improve distribution and exclude livestock from riparian areas. The project included 4270 feet (single wire electric).

12/22/2017 - There has been no additional work done beyond what was presented in the 9/30/2017 report so it was agreed that a 12/31/2017 report is not required. Mr. Elston has indicated that they anticipate the remaining amount of less than $7,000 will be utilized in 2018. A producer has already been identified to complete the work.

6/30/2018 – Mr. Elston indicated that they will be requesting an amendment to the scope of work. Because of this, it was agreed that a 6/30/2018 report is not required.

9/14/2018 – A no-cost amendment to the Scope of Work was approved to include the installation of a canoe/kayak launch at a Riparian Park that is owned by Barnes County SCD.

9/26/2018 – The canoe/kayak launch has been installed. Launch is 75 feet long and 15 feet wide. It was constructed of a rock base with gravel surface. Photos are available in the full report.

This contract is now closed with a returned commitment of $639.46.

Updated 9/26/2018