

**Grant All-Detail Report**

**Projects and Practices 2018**

**Grant Title -** Skunk Creek Watershed Sediment Reduction

**Grant ID** - C18-3114

**Organization -** Carlton SWCD

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| --- | --- | --- | --- |
| Original Awarded Amount | $414,830.00 | Grant Execution Date | 2/28/2018 |
| Required Match Amount | $103,707.50 | **Original Grant End Date** | 12/31/2020 |
| Required Match % | 25% | **Grant Day To Day Contact** |  |
| Current Awarded Amount | $414,830.00 | **Current End Date** | 12/31/2020 |

## Budget Summary

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| --- | --- | --- | --- |
|  | Budgeted | Spent | Balance Remaining\* |
| Total Grant Amount | $414,830.00 | $193,951.73 | $220,878.27 |
| Total Match Amount | $104,000.00 | $145,297.97 | $-41,297.97 |
| Total Other Funds | $0.00 | $0.00 | $0.00 |
| **Total** | **$518,830.00** | **$339,249.70** | **$179,580.30** |

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

## Budget Details

| Activity Name | Activity Category | Source Type | Source Description | Budgeted | Spent | Last Transaction Date | Matching Fund |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Carlton County Transportation Match | Technical/Engineering Assistance | Local Fund |  | $52,830.00 | $87,503.51 | 10/10/2019 | Y |
| Construction | Streambank or Shoreline Protection | Current State Grant | Skunk Creek Watershed Sediment Reduction | $348,830.00 | $165,644.70 | 10/10/2019 | N |
| Construction Match | Streambank or Shoreline Protection | Federal Funds |  | $51,170.00 | $57,794.46 | 9/13/2019 | Y |
| NCD Engineering Assitance | Technical/Engineering Assistance | Current State Grant | Skunk Creek Watershed Sediment Reduction | $10,000.00 | $9,353.60 | 10/8/2019 | N |
| Project Administration | Administration/Coordination | Current State Grant | Skunk Creek Watershed Sediment Reduction | $27,000.00 | $15,279.51 | 12/31/2019 | N |
| Survey Equipment | Supplies/Equipment | Current State Grant | Skunk Creek Watershed Sediment Reduction | $1,000.00 | $1,003.14 | 5/17/2018 | N |
| Technical Assistance | Technical/Engineering Assistance | Current State Grant | Skunk Creek Watershed Sediment Reduction | $28,000.00 | $2,670.78 | 12/31/2019 | N |

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## Activity Details Summary

| Activity Details | Total Action Count | Total Activity Mapped | Proposed Size / Unit | Actual Size / Unit |
| --- | --- | --- | --- | --- |
| 580 - Streambank and Shoreline Protection | 1 | 3 | 575 LINEAR FEET | 1873 LINEAR FEET |

**Proposed Activity Indicators**

| Activity Name | **Indicator Name** | **Value & Units** | **Waterbody** | **Calculation Tool** | **Comments** |
| --- | --- | --- | --- | --- | --- |

## Final Indicators Summary

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| --- | --- | --- |
| Indicator Name | Total Value | Unit |
| SOIL (EST. SAVINGS) | 280.00 | TONS/YR |
| SEDIMENT (TSS) | 280.00 | TONS/YR |
| PHOSPHORUS (EST. REDUCTION) | 322.00 | LBS/YR |

## Grant Activity

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| --- | --- | --- | --- |
| **Grant Activity - Carlton County Transportation Match** | | | |
| Description | Construction Inspection, permitting and survey/project staking match. | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 1-Apr-18 | **End Date** | 10-Oct-19 |
| Has Rates and Hours? | No | | |
| Actual Results | County Transportation Department assistance with bidding, right of way purchase, permitting assistance and design development. The winter of 2018-2019, the transportation department harvested the needed woody material (root wads) for the project. They also provided contracting and construction inspection assistance. | | |

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| **Grant Activity - Construction** | | | |
| Description | Removal of pipe structure and stream restoration construction. Slope stabilization of two slump areas upstream of stream restoration. Construction inspection provided by the Carlton County Transportation Department and will be overseen by the County Engineer, along with assistance as needed from the design engineers (Cardno). | | |
| Category | STREAMBANK OR SHORELINE PROTECTION | | |
| Start Date | 15-Jul-19 | **End Date** | 30-Aug-19 |
| Has Rates and Hours? | No | | |
| Actual Results | Public Waters Permit was submitted. Project construction was completed, which included two bank stabilization areas, removal of the concrete weir/pipe structure and a reconstructed stream channel. In stream structures included toewood, J-hooks and log vanes. | | |

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| Activity Action - Streamban Protection and Restoration | | | |
| Practice | 580 - Streambank and Shoreline Protection | **Count of Activities** | 1 |
| Description |  | | |
| Proposed Size / Units | 575.00 LINEAR FEET | **Lifespan** | 10 Years |
| Actual Size/Units | 1,873.00 LINEAR FEET | **Installed Date** | 30-Aug-19 |
| Mapped Activities | 3 Line(s) | | |

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| **Final Indicator for Streamban Protection and Restoration** | | | |
| **Indicator Name** | PHOSPHORUS (EST. REDUCTION) | **Value** | 322 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Skunk Creek | | |
| **Final Indicator for Streamban Protection and Restoration** | | | |
| **Indicator Name** | SOIL (EST. SAVINGS) | **Value** | 280 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Skunk Creek | | |
| **Final Indicator for Streamban Protection and Restoration** | | | |
| **Indicator Name** | SEDIMENT (TSS) | **Value** | 280 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Skunk Creek | | |

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| **Grant Activity - Construction Match** | | | |
| Description | Fish Passage Program Construction Match | | |
| Category | STREAMBANK OR SHORELINE PROTECTION | | |
| Start Date | 1-Apr-18 | **End Date** | 10-Oct-19 |
| Has Rates and Hours? | No | | |
| Actual Results | Project designs were finalized by consulting engineer. Match also funded part of the construction costs. | | |

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| **Grant Activity - NCD Engineering Assitance** | | | |
| Description | Natural Channel Design Engineering Assistance will be provided by Cardno and North Flow LLC. Their team have experience with stream restoration throughout the US and Midwest, including local experience. Their staff have Level 4 Rosgen training. | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 1-Apr-18 | **End Date** | 10-Oct-19 |
| Has Rates and Hours? | No | | |
| Actual Results | Cardno provided construction inspection services through the project. | | |

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| **Grant Activity - Project Administration** | | | |
| Description | Hours for Water Resources Technician to provide coordination between the Carlton County Transportation Department, Engineers and contractors. Some time may be used to evaluate the next Red Clay Dam/Nemadji projects, citizen outreach and required Grant Reporting. Through a MPCA Civic Engagement grant, newsletters are planned in the Nemadji Watershed, and if funded, this project will be included in an  article. In addition, an effort is planned to recruit additional citizen monitors to help collect transparency data in the watershed. Social media  will also be used to share project updates, and possible news related articles in the local Pine Journal may also be submitted. | | |
| Category | ADMINISTRATION/COORDINATION | | |
| Start Date | 1-Apr-18 | **End Date** |  |
| Has Rates and Hours? | Yes | | |
| Actual Results | Coordination of project design was completed in 2018. Project was put out to bid in December 2018, with the bid opening in January 2019. Project stream construction started in July and ended in August 2019. Final planting is planned for spring 2020. | | |

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| **Grant Activity - Survey Equipment** | | | |
| Description | Laser, Rod, Tripod and survey books to be used for construction and stream assessments. | | |
| Category | SUPPLIES/EQUIPMENT | | |
| Start Date |  | **End Date** |  |
| Has Rates and Hours? | No | | |
| Actual Results | Purchased laser, rod and survey paper. | | |

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| **Grant Activity - Technical Assistance** | | | |
| Description | Hours for the Water Resource Technician to assist with survey, design, inspection and permitting of the project, along with providing stream assessments/culvert inventory as needed. | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 1-Apr-18 | **End Date** |  |
| Has Rates and Hours? | Yes | | |
| Actual Results | All permits were applied for and received for the project (Public Waters, Army Corps, County Shoreland and wetland). Construction started in July 2019 and completed August 2019. | | |

## Grant Attachments

| Document Name | Document Type | Description |
| --- | --- | --- |
| 2018 Competitive Grant | Grant Agreement | 2018 Competitive Grant - Carlton SWCD |
| 2018 Competitive Grant executed | Grant Agreement | 2018 Competitive Grant - Carlton SWCD |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/03/2019 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/26/2019 |
| Application | Workflow Generated | Workflow Generated - Application - 08/08/2017 |
| Approximate Stream Channel Alignment | Grant | Skunk Creek Watershed Sediment Reduction |
| Army Corps Permit | Grant | Skunk Creek Watershed Sediment Reduction |
| Carlton County Transportation Match | Grant | Skunk Creek Watershed Sediment Reduction |
| Completed Area 1 Pano | Grant | Skunk Creek Watershed Sediment Reduction |
| Construction Invoice 2019 | Grant | Skunk Creek Watershed Sediment Reduction |
| Construction Invoice Veit | Grant | Skunk Creek Watershed Sediment Reduction |
| Construction Oversight Invoice | Grant | Skunk Creek Watershed Sediment Reduction |
| Construction Oversight Invoice 2 | Grant | Skunk Creek Watershed Sediment Reduction |
| Construction Vouchers | Grant | Skunk Creek Watershed Sediment Reduction |
| Drone Photo Area 1 | Grant | Skunk Creek Watershed Sediment Reduction |
| Hours for 2018 | Grant | Skunk Creek Watershed Sediment Reduction |
| Hours for 2019 Field Season | Grant | Skunk Creek Watershed Sediment Reduction |
| Maintanence Agreement | Grant | Skunk Creek Watershed Sediment Reduction |
| NPDS Permit | Grant | Skunk Creek Watershed Sediment Reduction |
| Preconstruction Drone Site 2 | Grant | Skunk Creek Watershed Sediment Reduction |
| Public Waters Permit | Grant | Skunk Creek Watershed Sediment Reduction |
| Public Waters Permit Invoice | Grant | Skunk Creek Watershed Sediment Reduction |
| Skunk Creek Bid Summary | Grant | Skunk Creek Watershed Sediment Reduction |
| Skunk Creek Bids | Grant | Skunk Creek Watershed Sediment Reduction |
| Skunk Creek Design | Grant | Skunk Creek Watershed Sediment Reduction |
| Skunk Creek Project Fact Sheet | Grant | Skunk Creek Watershed Sediment Reduction |
| Skunk Creek Watershed Application Images | Grant | Skunk Creek Watershed Sediment Reduction |
| SurveyEquipmentInvoice | Grant | Skunk Creek Watershed Sediment Reduction |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 12/20/2017 |
| grantmap\_18811\_2017-08-02\_02-31-09-PM.jpg | Grant | Skunk Creek Watershed Sediment Reduction |