

**Grant All-Detail Report**

**Watershed Based Implementation JAN 2021**

**Grant Title -** Nemadji Comprehensive Watershed Management Implementation Phase 1

**Grant ID** - C21-8755

**Organization -** Carlton SWCD

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| Original Awarded Amount | $250,000.00 | Grant Execution Date | 3/21/2021 |
| Required Match Amount | $25,000.00 | **Original Grant End Date** | 12/31/2023 |
| Required Match % | 10% | **Grant Day To Day Contact** | Melanie Bomier |
| Current Awarded Amount | $250,000.00 | **Current End Date** | 12/31/2023 |

## Budget Summary

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| --- | --- | --- | --- |
|  | Budgeted | Spent | Balance Remaining\* |
| Total Grant Amount | $250,000.00 | $36,000.62 | $213,999.38 |
| Total Match Amount | $54,310.00 | $30,559.34 | $23,750.66 |
| Total Other Funds | $0.00 | $0.00 | $0.00 |
| **Total** | **$304,310.00** | **$66,559.96** | **$237,750.04** |

*\*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 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Agriculture BMP Design and Implementation  | Agricultural Practices | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $134,000.00  | $5,497.13  | 12/6/2021 | N |
| Engineering and Technical Assistance  | Technical/Engineering Assistance | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $25,000.00  | $896.98  | 6/22/2022 | N |
| Engineering and Technical Assistance  | Technical/Engineering Assistance | Federal Funds | 319 | $54,310.00  | $30,559.34  | 6/30/2022 | Y |
| Grant Adminstration  | Administration/Coordination | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $29,601.00  | $22,559.57  | 12/31/2022 | N |
| Targeted Forest Management Planning  | Forestry Practices | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $14,336.00  |   |  | N |
| Targeted Outreach  | Education/Information | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $6,240.00  | $441.79  | 2/28/2022 | N |
| Watershed Inventory and Mapping  | Inventory/Mapping | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $19,000.00  | $6,346.07  | 1/5/2023 | N |
| Watershed Project Development  | Project Development | Current State Grant | Nemadji Comprehensive Watershed Management Implementation Ph.. | $21,823.00  | $259.08  | 12/31/2022 | N |

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## Activity Details Summary

| Activity Details | Total Action Count  | Total Activity Mapped  | Proposed Size / Unit | Actual Size / Unit |
| --- | --- | --- | --- | --- |
|  147M - Forestry Management | 16 |  | 640 AC |  AC |
|  340 - Cover Crop | 1 | 2 | 170 AC | 170 AC |

**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) | 11.90 | TONS/YR |
| PHOSPHORUS (EST. REDUCTION) | 8.36 | LBS/YR |

## Grant Activity

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| **Grant Activity - Agriculture BMP Design and Implementation**  |
| Description | Work with at least 5 farmers to deveop whole farm planning and design and implement BMPs that enhance at least 340 acres of farm land in targeted areas listed in the Nemadji Comprehensive Watershed Management Plan. Highest priority practices will include limited livestock access to streams, grazing management, cover crops and feedlot runoff. Design work will be completed by consulting engineers, NRCS and TSA III depending on the practice. Landowner contacts will be completed by Carlton SWCD staff. This will accomplish 8% of our farm goal per the Nemadji Comprehensive Watershed Management Plan. |
| Category | AGRICULTURAL PRACTICES |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results | Met with 5 livestock producers during the summer of 2021. Preliminary designs were completed for one farm to divert manure runoff from Spring Creek, along with fencing cattle out of the stream. Other BMPs are being considered by the landowner. One producer planted 170 acres of cover crops in the fall of 2021. Design for a WASCB was completed with construction planned for spring 2023.  |

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| Activity Action - Cover Crops  |
| Practice | 340 - Cover Crop | **Count of Activities** | 1 |
| Description |  |
| Proposed Size / Units | 170.00 AC | **Lifespan** | 1 Year |
| Actual Size/Units | 170.00 AC | **Installed Date** | 23-Sep-21 |
| Mapped Activities | 2 Polygon(s) | **Technical Assistance Provider** | SWCD |

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| **Final Indicator for Cover Crops** |
| **Indicator Name**  | SOIL (EST. SAVINGS) | **Value** | 11.9 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | MINNFARM |
| **Waterbody** | Section 36  |
| **Final Indicator for Cover Crops** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 8.36 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | MINNFARM |
| **Waterbody** | Section 36 |

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| **Grant Activity - Engineering and Technical Assistance**  |
| Description | Engineering Study for Red Clay Dam (Elim Dam) and road erosion study. Red clay dam work will be completed by a consulting engineer selected through an RFP process. The Road Erosion study will be completed by the Carlton County Transportation Department with assistance from the Carlton SWCD. |
| Category | TECHNICAL/ENGINEERING ASSISTANCE |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results | Elim Dam design work was started fall of 2021, with soil borings for the geotechnical analysis being collected in December. Carlton County Transportation assisted with data collection for watershed storage project. A design report was completed spring 2022.  |

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| **Grant Activity - Grant Adminstration**  |
| Description | Coordinate Policy and Steering Committees, update financial reports and grant reporting, coordinate and track project work. |
| Category | ADMINISTRATION/COORDINATION |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Water Resource Manager coordinated Ag, Wetland and Watershed Storage projects, coordinated the Policy Committee and Steering Committee and tracked watershed progress.  |

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| **Grant Activity - Targeted Forest Management Planning**  |
| Description | Complete 16 new or updated forest management plans in priority subwatersheds per the Nemadji Comprehensive Watershed Management Plan. Management plans will be completed by a DNR approved Minnesota Forest Stewardship Plan Writer and include Nemadji Watershed inserts as part of the plan. This will meet 18% of our Forest Goal. |
| Category | FORESTRY PRACTICES |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results |   |

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| Activity Action - Forest Management Planning  |
| Practice | 147M - Forestry Management | **Count of Activities** | 16 |
| Description |  |
| Proposed Size / Units | 640.00 AC | **Lifespan** | 10 Years |
| Actual Size/Units |  AC | **Installed Date** |  |
| Mapped Activities | No | **Technical Assistance Provider** | Other |

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| **Grant Activity - Targeted Outreach**  |
| Description | Conduct targeted outreach for lakes and groundwater. Includes both staff time for materials development and events along with printing and mailing of materials. |
| Category | EDUCATION/INFORMATION |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Worked with local graphic designer to help with advertising of the Contractor/Realtor workshop planned for February 2022.  |

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| **Grant Activity - Watershed Inventory and Mapping**  |
| Description | Create tools to track implementation progress and organize well data. ESRI tools will be used and work will be completed by the Carlton SWCD and Carlton County. Inventory Net Lake will be completed by consultants. |
| Category | INVENTORY/MAPPING |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Water resources manager hours building watershed tracking tool to show plan progress.  |

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| **Grant Activity - Watershed Project Development**  |
| Description | Develop projects including wetland restoration, forest and farm management and watershed protection. Hours will be used for staff to develop implementation projects, including reaching out to landowners, identifying potential sites and finding funding opportunities. Project development will be focused on targeted areas identified in the Nemadji Comprehensive Watershed Management Plan. Pre-project data collection (drone/wetland information) will be collected by Carlton County. |
| Category | PROJECT DEVELOPMENT |
| Start Date | 1-Apr-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results |   |

## Grant Attachments

| Document Name | Document Type | Description |
| --- | --- | --- |
| 2021 Watershed Based Implementation Funding | Grant Agreement | 2021 Watershed Implementation Funding - Carlton SWCD |
| 2021 Watershed Based Implementation Funding EXECUTED | Grant Agreement | 2021 Watershed Implementation Funding - Carlton SWCD |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/18/2023 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/21/2022 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/28/2022 |
| Application | Workflow Generated | Workflow Generated - Application - 01/28/2021 |
| Milestones | Grant | Nemadji Comprehensive Watershed Management Implementation Phase 1 |
| Nemadji Watershed Targeting Maps | Grant | Nemadji Comprehensive Watershed Management Implementation Phase 1 |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 02/01/2021 |