

**Grant All-Detail Report**

**Projects and Practices 2021**

**Grant Title -** Net River Watershed Sediment Reduction Project - Stormwater and the Road Stream Interface

**Grant ID** - C21-8244

**Organization -** Carlton SWCD

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| Original Awarded Amount | $596,300.00 | Grant Execution Date | 2/22/2021 |
| Required Match Amount | $149,075.00 | **Original Grant End Date** | 12/31/2023 |
| Required Match % | 25% | **Grant Day To Day Contact** | Melanie Bomier |
| Current Awarded Amount | $596,300.00 | **Current End Date** | 12/31/2023 |

## Budget Summary

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| --- | --- | --- | --- |
|  | Budgeted | Spent | Balance Remaining\* |
| Total Grant Amount | $596,300.00 | $13,115.18 | $583,184.82 |
| Total Match Amount | $380,500.00 | $79,460.81 | $301,039.19 |
| Total Other Funds | $0.00 | $0.00 | $0.00 |
| **Total** | **$976,800.00** | **$92,575.99** | **$884,224.01** |

*\*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 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| County Transportation Department Match  | Streambank or Shoreline Protection | Local Fund | County Funds | $200,000.00  | $68,197.89  | 8/11/2022 | Y |
| Little Net River Gully Stabilization  | Streambank or Shoreline Protection | Current State Grant | Net River Watershed Sediment Reduction Project - Stormwater .. | $518,500.00  | $1,377.50  | 6/2/2022 | N |
| Project Coordination and Administration  | Administration/Coordination | Current State Grant | Net River Watershed Sediment Reduction Project - Stormwater .. | $24,750.00  | $8,621.70  | 12/31/2022 | N |
| Stream Stabilization Match  | Streambank or Shoreline Protection | Federal Funds | Great Lakes Commission  | $180,500.00  | $11,262.92  | 12/31/2022 | Y |
| Targeted stormwater management implmentation  | Urban Stormwater Management Practices | Current State Grant | Net River Watershed Sediment Reduction Project - Stormwater .. | $36,000.00  |   |  | N |
| Technical Project Support  | Technical/Engineering Assistance | Current State Grant | Net River Watershed Sediment Reduction Project - Stormwater .. | $17,050.00  | $3,115.98  | 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 |
| --- | --- | --- | --- | --- |
|  638 - Water and Sediment Control Basin | 2 | 1 | 1 AC |  AC |
|  410 - Grade Stabilization Structure | 1 | 1 | 0.75 AC | 0.75 AC |
|  584 - Stream Channel Stabilization | 1 |  | 250 LINEAR FEET |  LINEAR FEET |
|  580 - Streambank and Shoreline Protection | 1 | 1 | 250 LINEAR FEET | 250 LINEAR FEET |
|  410 - Grade Stabilization Structure | 1 |  | 0.73 SQUARE FEET |  SQUARE FEET |

**Proposed Activity Indicators**

| Activity Name | **Indicator Name** | **Value & Units** | **Waterbody** | **Calculation Tool** | **Comments** |
| --- | --- | --- | --- | --- | --- |
| Targeted stormwater management implmentation  | VOLUME REDUCED (ACRE-FEET/YEAR) | 2.6 ACRE-FEET/YR | Net River Watershed | MIDS |  |
| Little Net River Gully Stabilization  | PHOSPHORUS (EST. REDUCTION) | 4045.13 LBS/YR | Little Net River | BWSR CALC (GULLY STABILIZATION) |  |
| Little Net River Gully Stabilization  | SOIL (EST. SAVINGS) | 3517.5 TONS/YR | Little Net River | BWSR CALC (GULLY STABILIZATION) |  |
| Little Net River Gully Stabilization  | SEDIMENT (TSS) | 3517.5 TONS/YR | Little Net River | BWSR CALC (GULLY STABILIZATION) |  |

## Final Indicators Summary

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| Indicator Name | Total Value  | Unit  |
| SOIL (EST. SAVINGS) | 518.00 | TONS/YR |
| PHOSPHORUS (EST. REDUCTION) | 518.00 | LBS/YR |

## Grant Activity

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| **Grant Activity - County Transportation Department Match**  |
| Description | County pledged match funds for the project |
| Category | STREAMBANK OR SHORELINE PROTECTION |
| Start Date | 1-Apr-21 | **End Date** | 15-Aug-22 |
| Has Rates and Hours? | No  |
| Actual Results | Carlton County forces installed a grade control / water and sediment control basin at the site to divert stormwater runoff away from the failing bank into a stable outlet. An additional grade stabilization was installed on the west bank of the stream.  |

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| Activity Action - Grade Stabilization Little Net River  |
| Practice | 410 - Grade Stabilization Structure | **Count of Activities** | 1 |
| Description |  |
| Proposed Size / Units | 0.75 AC | **Lifespan** | 10 Years |
| Actual Size/Units | 0.75 AC | **Installed Date** | 26-May-21 |
| Mapped Activities | 1 Point(s)  | **Technical Assistance Provider** | Other |

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| **Final Indicator for Grade Stabilization Little Net River** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 424 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | Other |
| **Waterbody** | Little Net River |
| **Final Indicator for Grade Stabilization Little Net River** |
| **Indicator Name**  | SOIL (EST. SAVINGS) | **Value** | 424 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | Other |
| **Waterbody** | Little Net River |

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| **Grant Activity - Little Net River Gully Stabilization**  |
| Description | Implementation of the gully stabilization that includes: 1) Correct the stormwater concerns at the road stream interface, 2) stabilize the gully and 3) stabilize the streambank.  Cardno engineering and the Carlton County Transportation Department will be designing and overseeing project implementation. Cardno will be focused on the stream portion of the project while the transportation department will focus on the road/stormwater work. Additional consulting assistance from LHB on road/stormwater may be requested. Credentials available upon request. Designs standards with follow County State Aid Road and NRCS Standards. |
| Category | STREAMBANK OR SHORELINE PROTECTION |
| Start Date | 1-Jun-21 | **End Date** | 29-Nov-22 |
| Has Rates and Hours? | No  |
| Actual Results | The stream portion of the project was designed within the restrictions of DNR Fisheries. Streambank work was completed in November 2022. Trees that fell as a result of the slide were removed from the stream to lesson the constriction at the site. Roots were left in place to hold soil.  |

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| Activity Action - Little Net River Stabilization  |
| Practice | 584 - Stream Channel Stabilization | **Count of Activities** | 1 |
| Description |  |
| Proposed Size / Units | 250.00 LINEAR FEET | **Lifespan** | 10 Years |
| Actual Size/Units |  LINEAR FEET | **Installed Date** |  |
| Mapped Activities | No | **Technical Assistance Provider** | Private Consultant |

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| Activity Action - Grade Stabilization  |
| Practice | 410 - Grade Stabilization Structure | **Count of Activities** | 1 |
| Description |  |
| Proposed Size / Units | 0.73 SQUARE FEET | **Lifespan** | 10 Years |
| Actual Size/Units |  SQUARE FEET | **Installed Date** |  |
| Mapped Activities | No | **Technical Assistance Provider** | Private Consultant |

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| **Grant Activity - Project Coordination and Administration**  |
| Description | Time for the Carlton SWCD Water Resources Technician to coordinate the project including assisting with permitting, bidding, consultant interactions, landowner contacts and provide project reporting/invoicing. |
| Category | ADMINISTRATION/COORDINATION |
| Start Date | 1-May-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Water Resource Manager coordinated the project, including working with consulting engineers, permiters, and the County Transportation Department.  |

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| **Grant Activity - Stream Stabilization Match**  |
| Description | Great Lakes Commission Project Construction Match. |
| Category | STREAMBANK OR SHORELINE PROTECTION |
| Start Date |  | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results | Water planner coordinated both CWF and GLC grant funds.  |

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| Activity Action - Streambank and shoreline stabilization  |
| Practice | 580 - Streambank and Shoreline Protection | **Count of Activities** | 1 |
| Description | Down trees from the Net River slide were removed from the stream to lessen the stream constriction. Roots were left in place to hold the soil. This will reduce in channel erosion. |
| Proposed Size / Units | 250.00 LINEAR FEET | **Lifespan** | 10 Years |
| Actual Size/Units | 250.00 LINEAR FEET | **Installed Date** | 29-Nov-22 |
| Mapped Activities | 1 Line(s) | **Technical Assistance Provider** | Private Consultant |

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| **Final Indicator for Streambank and shoreline stabilization** |
| **Indicator Name**  | SOIL (EST. SAVINGS) | **Value** | 94 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | Other |
| **Waterbody** | Little Net RIver |
| **Final Indicator for Streambank and shoreline stabilization** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 94 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | Other |
| **Waterbody** | Little Net River |

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| **Grant Activity - Targeted stormwater management implmentation**  |
| Description | Design and implement targeted storm water management implementation to protect downstream infrastructure. Design and construction oversight will be through a licensed engineer (County Engineer or consultant depending on project site) and/or TSA III if applicable. NRCS and/or Minnesota Stormwater Manual standards will be followed. Credentials available upon request. |
| Category | URBAN STORMWATER MANAGEMENT PRACTICES |
| Start Date | 1-Jun-21 | **End Date** | 15-Sep-23 |
| Has Rates and Hours? | No  |
| Actual Results |   |

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| Activity Action - Targeted Stormwater Practices  |
| Practice | 638 - Water and Sediment Control Basin | **Count of Activities** | 2 |
| Description |  |
| Proposed Size / Units | 1.00 AC | **Lifespan** | 10 Years |
| Actual Size/Units |  AC | **Installed Date** |  |
| Mapped Activities | 1 Point(s)  | **Technical Assistance Provider** | Private Consultant |

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| **Grant Activity - Technical Project Support**  |
| Description | Hours for Carlton SWCD Water Resource Technician to provide technical support for the project, including construction inspection and SWPPP inspections.  |
| Category | TECHNICAL/ENGINEERING ASSISTANCE |
| Start Date | 1-May-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Water Resources Manager oversaw the water and sediment control basin installation and stream stabilization for this project.  |

## Grant Attachments

| Document Name | Document Type | Description |
| --- | --- | --- |
| 2021 Competitive Grant | Grant Agreement | 2021 Competitive Grant - Carlton SWCD |
| 2021 Competitive Grant EXECUTED | Grant Agreement | 2021 Competitive Grant - Carlton SWCD |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 12/27/2021 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 07/27/2021 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/09/2023 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/28/2022 |
| Application | Workflow Generated | Workflow Generated - Application - 08/10/2020 |
| DNR FIsheries Comments | Grant | Net River Watershed Sediment Reduction Project - Stormwater and the Road Stream Interface |
| Grant Application Image | Grant | Net River Watershed Sediment Reduction Project - Stormwater and the Road Stream Interface |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 01/25/2021 |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 12/17/2020 |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 02/05/2021 |
| grantmap\_28471\_2020-08-10\_06-40-10-AM.jpg | Grant | Net River Watershed Sediment Reduction Project - Stormwater and the Road Stream Interface |