

**Grant All-Detail Report**

**Projects and Practices 2017**

**Grant Title -** Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization

**Grant ID** - C17-5391

**Organization -** Carlton SWCD

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| Original Awarded Amount | $95,773.00 | Grant Execution Date | 3/6/2017 |
| Required Match Amount | $23,943.25 | **Original Grant End Date** | 12/31/2019 |
| Required Match % | 25% | **Grant Day To Day Contact** | Melanie Bomier |
| Current Awarded Amount | $95,773.00 | **Current End Date** | 12/31/2020 |

## Budget Summary

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| --- | --- | --- | --- |
|  | Budgeted | Spent | Balance Remaining\* |
| Total Grant Amount | $95,773.00 | $95,773.00 | $0.00 |
| Total Match Amount | $48,000.00 | $107,917.52 | $-59,917.52 |
| Total Other Funds | $0.00 | $0.00 | $0.00 |
| **Total** | **$143,773.00** | **$203,690.52** | **$-59,917.52** |

*\*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 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Construction Match  | Agricultural Practices | Federal Funds | Federal Highway Administration | $24,000.00  | $95,320.72  | 10/13/2020 | Y |
| Construction Match  | Agricultural Practices | Local Fund | Ecofootprint | $24,000.00  | $12,596.80  | 12/31/2018 | Y |
| Haeg, Lundquist, Svacina and Karp Dam Development  | Project Development | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $6,576.85  | $6,576.85  | 7/31/2019 | N |
| Lund Dam Removal and Stream Restoration  | Streambank or Shoreline Protection | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $0.00  |   |  | N |
| Project Management  | Administration/Coordination | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $4,404.40  | $4,404.40  | 10/31/2020 | N |
| Restoration- Survey, Design, Bidding and Inspection  | Technical/Engineering Assistance | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $2,154.76  | $2,154.76  | 12/31/2018 | N |
| Restoration-Permitting  | Planning and Assessment | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $2,776.72  | $2,776.72  | 12/31/2018 | N |
| Stateline Creek Stream Stabilization  | Streambank or Shoreline Protection | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $76,120.55  | $76,120.55  | 10/13/2020 | N |
| Stream Restoration Training  | Education/Information | Current State Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Cla.. | $3,739.72  | $3,739.72  | 12/31/2017 | N |

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## Activity Details Summary

| Activity Details | Total Action Count  | Total Activity Mapped  | Proposed Size / Unit | Actual Size / Unit |
| --- | --- | --- | --- | --- |
|  584 - Stream Channel Stabilization | 1 | 1 | 250 LINEAR FEET |  LINEAR FEET |
|  584 - Stream Channel Stabilization | 1 | 1 | 500 LINEAR FEET | 500 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  |
| SEDIMENT (TSS) | 156.00 | TONS/YR |
| PHOSPHORUS (EST. REDUCTION) | 179.00 | LBS/YR |

## Grant Activity

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| **Grant Activity - Construction Match**  |
| Description | Construction Match |
| Category | AGRICULTURAL PRACTICES |
| Start Date | 3-Sep-18 | **End Date** | 31-Oct-18 |
| Has Rates and Hours? | No  |
| Actual Results | Since the Lund project will not move forward, matching funds were used for design of the Lysne Dam/stream restoration. Construction funds will be used for a stream stabilization project for Stateline Creek. DNR Public Waters permits were applied and paid for in December 2019.  |

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| **Grant Activity - Haeg, Lundquist, Svacina and Karp Dam Development**  |
| Description | Meet with land owners and DNR to discuss restoration options. Evaluate up and down stream infrastructure, including Soo Line trail culverts. |
| Category | PROJECT DEVELOPMENT |
| Start Date | 1-May-17 | **End Date** | 30-Apr-19 |
| Has Rates and Hours? | Yes  |
| Actual Results | Water Resource Tech worked with the land owner of the County 103 structure. Also discussed the project with the DNR Hydrologist and Fisheries manager. Completed Skunk Creek Soo Line Trail culvert inventory. Worked with Lysne dam owner on his failing structure. Coordinated with NRCS for structure inspection. Land owner does not want to loose his pond, and so restoration is not an option at this time. Met with Lundquist Dam owner. Land owner also likes their pond.  |

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| **Grant Activity - Lund Dam Removal and Stream Restoration**  |
| Description | Includes construction costs, TSA assistance with engineering designs, survey, construction inspection, permitting and bidding. An estimated 250 linear feet of stream will be restored along a reduction of annual 80 tons of sediment annually. |
| Category | STREAMBANK OR SHORELINE PROTECTION |
| Start Date |  | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results |   |

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| Activity Action - Lund Stream Restoration  |
| 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 | 1 Line(s) | **Technical Assistance Provider** |  |

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| **Grant Activity - Project Management**  |
| Description | Project management including compiling invoices, reporting and project coordination. |
| Category | ADMINISTRATION/COORDINATION |
| Start Date | 1-May-17 | **End Date** | 27-Oct-20 |
| Has Rates and Hours? | Yes  |
| Actual Results | Administrative assistant and water resource technician worked on project management including invoicing and annual reporting. In 2019, a grant amendment was requested to move the remaining funds for the project to construction of a stream stabilization on Stateline Creek. This was requested because neither the Lund nor the Lysne Dam owners were ready to move forward with construction of their projects. The Stateline Creek project construction is planned for 2020 in conjunction with the replacement of the undersized culvert with a free-span bridge. The bridge construction is funded through the Federal Highway Administration.  |

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| **Grant Activity - Restoration- Survey, Design, Bidding and Inspection**  |
| Description | SWCD assistance with project Survey, Design, Bidding and Inspection.  |
| Category | TECHNICAL/ENGINEERING ASSISTANCE |
| Start Date | 2-Jun-17 | **End Date** | 25-Jun-18 |
| Has Rates and Hours? | Yes  |
| Actual Results | Water Resources Tech Hours to assist TSA III with project survey. Designs were completed and presented to land owner. Land owner had significant life events and health issues and requested to no longer move forward with the project.  |

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| **Grant Activity - Restoration-Permitting**  |
| Description | Includes hours for completing the EAW, Public Waters Permit, County wetland and shoreland permits, Arecheological site visit, along with associated fees. |
| Category | PLANNING AND ASSESSMENT |
| Start Date | 9-Jan-18 | **End Date** | 27-Sep-18 |
| Has Rates and Hours? | Yes  |
| Actual Results | Conservation Tech completed wetland delineation. Water Resources Tech completed wetland application permit. Water resources tech worked with DNR hydrologist for project (no Public Waters Permit needed) and set up wetland delineation for No Loss Permit. TEP met on site and issued the permit. Army Corps permit was also approved.  |

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| **Grant Activity - Stateline Creek Stream Stabilization**  |
| Description | Stabilize Stateline Creek where an undersized culvert chronically increased stream velocity and caused severe bank erosion. The culvert will be replaced with a free-span bridge in 2020. |
| Category | STREAMBANK OR SHORELINE PROTECTION |
| Start Date | 10-Aug-20 | **End Date** | 13-Oct-20 |
| Has Rates and Hours? | No  |
| Actual Results | Stateline Creek was stabilized using Natural Channel Design techniques including restoring the channels natural panel, stabilizing banks using toewood and installing grade control structures including rock vanes and wood J-hooks.  |

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| Activity Action - Stateline Creek Stabilization  |
| Practice | 584 - Stream Channel Stabilization | **Count of Activities** | 1 |
| Description | Stream work included: -A converging boulder cluster at the top of the project to act as a grade control. -Reshaping of 75 feet of existing channel. -Creation of approximately 200 feet of new stream channel following removal of the existing culvert that included a series of two converging boulder clusters and two boulder vanes within the channel to provide riffle-pool sequences that disperses stream energy and provides aquatic habitat in the new stream channel. -A bankfull bench on each side of the stream channel through the shadow of the proposed bridge structure. -Realignment of the channel downstream of the culvert to pull the centerline of the channel away from steep, high banks. -A series of J-hook log vanes, constructed riffles and converging boulder clusters to create a stable riffle-pool sequence. -Outside meander bends stabilized with toewood. -Re-shaping the channel to a narrower, more stable channel that can convey sediment while providing aquatic habitat.  |
| Proposed Size / Units | 500.00 LINEAR FEET | **Lifespan** | 20 Years |
| Actual Size/Units | 500.00 LINEAR FEET | **Installed Date** | 14-Sep-20 |
| Mapped Activities | 1 Line(s) | **Technical Assistance Provider** | Private Consultant |

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| **Final Indicator for Stateline Creek Stabilization** |
| **Indicator Name**  | SEDIMENT (TSS) | **Value** | 156 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Stateline Creek |
| **Final Indicator for Stateline Creek Stabilization** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 179 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Stateline Creek |

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| **Grant Activity - Stream Restoration Training**  |
| Description | DNR Stream Restoration training for the Water Resources Technician (WRT).  |
| Category | EDUCATION/INFORMATION |
| Start Date | 17-Jul-17 | **End Date** | 18-Aug-17 |
| Has Rates and Hours? | Yes  |
| Actual Results | The DNR Stream Restoration Training was increased to 2 weeks and the fees were therefore also increased. To keep our project within budget, the USFS Stream Simulation Design Approach for Providing Aquatic Organism Passage at Road-Stream Crossings was selected instead.  |

## Grant Attachments

| Document Name | Document Type | Description |
| --- | --- | --- |
| 2017 Clean Water Fund amendment executed | Grant Agreement Amendment |  |
| 2017 Competitive Grant | Grant Agreement | 2017 Competitive Grant - Carlton SWCD |
| 2017 Competitive Grant executed | Grant Agreement | 2017 Competitive Grant - Carlton SWCD |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/16/2020 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 10/29/2020 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/03/2019 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 04/03/2018 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/03/2018 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 11/20/2020 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/26/2019 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 10/29/2020 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 10/20/2020 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/11/2020 |
| Application | Workflow Generated | Workflow Generated - Application - 08/04/2016 |
| Board signed amendment | Grant Agreement Amendment |  |
| Failed Red Clay Dam | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |
| Permitting Invoice | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |
| Project Report | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |
| Signed O&M Agreement  | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |
| Stateline Creek Construction Match | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |
| Voucher, Maintanence Contract  | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 02/10/2020 |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 03/02/2017 |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 12/14/2016 |
| grantmap\_16707\_2016-07-22\_09-31-40-AM.jpg | Grant | Red Clay Dam Phase III: Stream Restoration at Failed Red Clay Dam and Partner Prioritization |