# Grant Progress Report

## Projects and Practices 2021

**Grant Title:** Phase 1: Targeted Rum River Bank Stabilization 2021
**Grant ID:** C21-2669
**Grantee:** Anoka CD
**Fiscal Agent:**
**Grant Day-to-Day Contact:** Chris Lord

**Grant Award ($):** $440,000.00
**Required Match (%):** 25
**Required Match ($):** $110,000.00

**Grant Execution Date:** 03/24/2021
**Grant End Date:** 12/31/2024

| | Total Budgeted | Total Spent | Balance Remaining* |
|---|---|---|---|
| **Grant Funds** | $440,000.00 | **$440,000.00** | $0.00 |
| **Match Funds** | $110,000.00 | **$110,005.27** | ($5.27) |
| **Other Funds** | $0.00 | **$0.00** | $0.00 |
| **Total** | $550,000.00 | **$550,005.27** | ($5.27) |

***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* | *Category* | *Source Type* | *Source Description* | *Budgeted* | *Spent* | *Balance Remaining* | *Match Fund?* |
|---|---|---|---|---|---|---|---|
| Phase 1: Rum Riverbank Stabilization Construction | Streambank or Shoreline Protection | Local Fund | ACD-held local funds from Anoka County, URRWMO, LRRWMO | $55,000.00 | $64,916.47 | ($9,916.47) | Y |
| Grant Administration and Coordination | Administration/Coordination | Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $4,000.00 | $3,160.65 | $839.35 | N |

| Activity Name | Category | Source Type | Source Description | Budgeted | Spent | Balance Remaining | Match Fund? |
|---|---|---|---|---|---|---|---|
| Project Development | Project Development | Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $20,000.00 | $16,035.22 | $3,964.78 | N |
| Phase 1: Rum Riverbank Stabilization Construction | Streambank or Shoreline Protection | Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $316,000.00 | $327,927.15 | ($11,927.15) | N |
| Technical and Engineering Assistance for Phase 1: Rum Riverbank Stabilization | Technical/Engineering Assistance | Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $100,000.00 | $92,876.98 | $7,123.02 | N |
| Phase 1: Rum Riverbank Stabilization Construction | Streambank or Shoreline Protection | Landowner Fund | Landowner match funds | $55,000.00 | $45,088.80 | $9,911.20 | Y |

## Indicator Summary

| Indicator Category | Proposed Indicator | Total Value | Unit |
|---|---|---|---|
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 200 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 200 | Lbs/Yr |

| Indicator Category | Final Indicator | Total Value | Unit |
|---|---|---|---|
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 360.9 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 424.6 | Tons/Yr |

## Grant Activities

### Activity Name: Grant Administration and Coordination

**Activity Category:** Administration/Coordination | **Staff time?:** Yes

**Description:** Staff time for grant administration and reporting. Tasks include annual eLINK reporting (e.g. activity progress and budget updates), coordination of expense reports and payments, and project financial management.

Credentials of anticipated staff involved:
Chris Lord - District Manager - BS Nat. Res. & Env. Sci. with 25+ yrs in project management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

Kathy Berkness - Office Admin. - 30+ yrs finance management, administering programs, progress and financial program reports, website development and management, general office admin.

**Budget Details**

| Source Type | Source Description | Budgeted | Spent | Balance Remaining | Last Transaction Date | Match Fund? |
|---|---|---|---|---|---|---|
| Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $4,000.00 | $3,160.65 | $839.35 | 12/31/2024 | N |

**Actual Results**

2021: General grant admin and reporting for the year.

2022: General grant admin and reporting for the year.

2023: General grant admin and reporting for the year.

2024: General grant admin and reporting.

## Activity Name: Phase 1: Rum Riverbank Stabilization Construction

**Activity Category:** Streambank or Shoreline Protection | **Staff time?:** No

**Description:** Construction costs for riverbank stabilization(s) (e.g. labor, materials, grading, equipment, site restoration, temporary erosion control, vegetation establishment and management).

Project construction will be completed by qualified contractors hired by the landowner(s) with ACD staff oversight. A professional engineering firm will aid with development of a bid packet and the bidding process.

An example landowner agreement is attached that addresses partner responsibilities for grant administration, project design, engineering, construction bidding and management (inspections, payments, as-built verifications), cost overruns, long-term project operations and maintenance (O&M agreement project specific to be added to each agreement), 150% state payback liability, and property access and assurances. The agreement also allows landowner escrow, designated as match for construction costs, to be used to cover realized design and engineering costs should a project fall through before construction. Landowner agreements will be attached when fully executed.

20% project assurance has been set aside by ACD (attached Feb 2021 Board minutes item Q). We will continue to look into insurance options for full coverage over the project life.

**Budget Details**

| Source Type | Source Description | Budgeted | Spent | Balance Remaining | Last Transaction Date | Match Fund? |
|---|---|---|---|---|---|---|
| Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $316,000.00 | $327,927.15 | ($11,927.15) | 12/16/2024 | N |
| Landowner Fund | Landowner match funds | $55,000.00 | $45,088.80 | $9,911.20 | 12/16/2024 | Y |
| Local Fund | ACD-held local funds from Anoka County, URRWMO, LRRWMO | $55,000.00 | $64,916.47 | ($9,916.47) | 12/31/2024 | Y |

| Actual Results |
|---|
| No work completed for this activity in 2021. |
| No work completed for this activity in 2022. |
| Construction was completed in fall 2024 along all or parts of four properties, stabilizing one of the highest priority reaches with the most significant bank erosion on the Rum River. |

**Final Indicators**

| Indicator | Total Value | Unit |
|---|---|---|
| Sediment (Tss) | 424.6 | Tons/Yr |
| Phosphorus (Est. Reduction) | 360.9 | Lbs/Yr |

| | | |
|---|---|---|
| Activity Action Name: | 221st Ave. Rum Riverbank Stabilization | Activity Count: 3 |
| Practice Type: | 580 - Streambank and Shoreline Protection | Size/Units: 405 - Linear Feet |
| TA Provider/JAA: | SWCD | Lifespan: 25 Years |
| Practice Description: | Riverbank stabilization across all or portions of 4 properties with the most significant bank erosion on the Rum river utilizing a combination of approaches including a Flexamat and rock armored toe, one rock barb, grading, and native vegetation. | Install Date: 11/25/2024<br>Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|---|---|---|---|---|
| Sediment (Tss) | Tons/Yr | 424.6 | Bwsr Calc (Stream & Ditch Stabilization) | Rum River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 360.9 | Bwsr Calc (Stream & Ditch Stabilization) | Rum River |

## Activity Name: Project Development

**Activity Category:** Project Development | **Staff time?:** Yes

**Description:** Project promotion to riparian owners, project ranking based on cost-benefit analysis and performance-based criteria; completion of operations, maintenance, and access agreements with property owners; coordination meetings with all partners (i.e. ACD, project engineer, watershed management entities, and participating cities) to discuss preliminary information gathering, concept designs, project schedule, and progress updates.

Cities and watershed management entities will be engaged in the project review and permitting elements of the grant to streamline project approvals and develop broad-based support to continue similar efforts to address the erosion problems. Project purpose and progress will also be highlighted in newspaper articles, emails to elected officials, website content, and written project profiles. This project will also directly involve private landowners as project partners. Outreach efforts to identify willing partners will include targeted mailings, site visits, and informational meetings. ACD will also develop an educational video that provides information on river morphology, ecology, bank stability, erosion control, and riparian stewardship.

Credentials of Anticipated Staff Involved:
Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

Mitch Haustein – Stormwater and Shoreland Spec. – BA Bio., MS Ecol., Evol. and Behavior with 12 yrs in monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, and BMP modeling, planning and construction management.

Jared Wagner – Water Res. Spec. – BA Env Sci with 6 yrs in water resource monitoring and analysis, monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, BMP modeling, BMP design and installation.

**Budget Details**

| Source Type | Source Description | Budgeted | Spent | Balance Remaining | Last Transaction Date | Match Fund? |
|---|---|---|---|---|---|---|
| Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $20,000.00 | $16,035.22 | $3,964.78 | 12/31/2023 | N |

| Actual Results |
| --- |
| 2021: The majority of this was spent as staff time on project development towards a very high priority site for stabilization on the Rum River. The streambank is 400+ feet in length with a sheer eroded face exceeding 20 feet in height. Time to date has been spent trying to work through project budgets, agreements and timelines with two landowners whose parcels split the project area. |
| 2022: Early in the year, we got all the way to the point of project agreements with two landowners who share the highest priority site on the Rum; one signed, the other backed away. In May of 2022, the parcel owner immediately upstream of the landowner who signed had a massive bank failure. We are now trying to get engineering and design figured out for this stretch. |
| 2023: We worked with three adjacent landowners, all with severe and worsening erosion. We worked through an initial concept with them and got deed restrictions and maintenance agreements signed for a grant-funded project for each. |
| No additional project development in 2024. |

## Activity Name: Technical and Engineering Assistance for Phase 1: Rum Riverbank Stabilization

**Activity Category:** Technical/Engineering Assistance | **Staff time?:** Yes

**Description:** Engineered construction plans including site assessments and surveys, permit applications and regulatory coordination, bidding, construction management, and final project inspection and closeout.

Up to five properties will be selected for stabilization along the Rum River in Anoka County (two or three sites is most likely scenario). This project will stabilize up to 500 linear feet, targeting the most severe erosion, and reducing TP loading by 200 lbs/yr and TSS loading by 200 tons/yr.

Credentials of Anticipated Staff Involved:
Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

Mitch Haustein – Stormwater and Shoreland Spec. – BA Bio., MS Ecol., Evol. and Behavior with 12 yrs in monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, and BMP modeling, planning and construction management.

Jared Wagner – Water Res. Spec. – BA Env Sci with 6 yrs in water resource monitoring and analysis, monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, BMP modeling, BMP design and installation.

Professional engineering firm - Firm(s) will be selected with demonstrated expertise in streambank stabilization through ACD's previously used RFP process. The selected firm will guide and assist ACD in design and engineering, bid packet development, construction site management, and inspections.

**Budget Details**

| Source Type | Source Description | Budgeted | Spent | Balance Remaining | Last Transaction Date | Match Fund? |
|---|---|---|---|---|---|---|
| Current State Grant | Phase 1: Targeted Rum River Bank Stabilization 2021 | $100,000.00 | $92,876.98 | $7,123.02 | 12/31/2024 | N |

| Actual Results |
| --- |
| 2021: Technical assistance from District Manager on concept design. |
| 2022: ACD staff time spent on conceptualizing and drawing stabilization techniques for a 30-ft. tall bank with a 10-ft. deep toe. Discussions with neighboring SWCD staff engineers, and proprietary product engineers. Came up with a possible solution to pitch to engineering firms. |
| 2023: We worked with Stantec to develop and refine a highly engineered concept design for 735 feet of severely eroding riverbank on three adjacent properties. The extreme nature of the flow dynamics and scale of the bank made this a very challenging endeavor. As of January 2024, we are working on a final design for sign off, to be submitted for permitting and bid for construction in 2024. |
| 2024: We worked in tandem with Stantec to finalize designs, permit, bid out construction work, and oversee the large scale construction along 935-feet of severely eroding Rum Riverbank. |