



# Grant Progress Report

## Watershed Based Implementation JUN 2022

**Grant Title:** 2022 Metro WBIF - Rum River Watershed

**Grant ID:** C22-5234

**Grantee:** Anoka CD

**Fiscal Agent:** Anoka CD

**Grant Day-to-Day Contact:** Chris Lord

**Grant Award (\$):** \$371,157.00

**Required Match (%):** 10

**Required Match (\$):** \$37,115.70

**Grant Execution Date:** 08/19/2022

**Grant End Date:** 12/31/2025

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$371,157.00	\$6,090.19	\$365,066.81
Match Funds	\$37,116.00	\$1,033.39	\$36,082.61
Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$408,273.00</b>	<b>\$7,123.58</b>	<b>\$401,149.42</b>

\*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?
Admin	Administration/Coordination	Local Fund	LRRWMO, URRWMO	\$3,716.00	\$179.50	\$3,536.50	Y
Ag BMPs	Agricultural Practices	Local Fund	LRRWMO, URRWMO	\$2,800.00		\$2,800.00	Y
Ag BMPs	Agricultural Practices	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$25,000.00		\$25,000.00	N
Trott Brook assessment	Planning and Assessment	Local Fund	LRRWMO	\$3,000.00	\$853.89	\$2,146.11	Y

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
Trott Brook assessment	Planning and Assessment	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$30,000.00		\$30,000.00	N
Project development	Project Development	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$14,082.00	\$1,453.92	\$12,628.08	N
Critical area planting	Special Projects	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$46,375.00		\$46,375.00	N
Critical area planting	Special Projects	Landowner Fund	Landowners	\$4,000.00		\$4,000.00	Y
SSTS fix up	Subsurface Sewage Treatment Systems	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$62,000.00		\$62,000.00	N
SSTS fix up	Subsurface Sewage Treatment Systems	Landowner Fund	Landowners	\$6,200.00		\$6,200.00	Y
Tech/Engineering	Technical/Engineering Assistance	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$43,700.00	\$4,636.27	\$39,063.73	N
Urban BMPs	Urban Stormwater Management Practices	Local Fund	LRRWMO, URRWMO	\$14,000.00		\$14,000.00	Y
Urban BMPs	Urban Stormwater Management Practices	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$125,000.00		\$125,000.00	N
Wetland restoration	Wetland Restoration/Creation	Local Fund	LRRWMO, URRWMO	\$3,400.00		\$3,400.00	Y
Wetland restoration	Wetland Restoration/Creation	Current State Grant	2022 Metro WBIF - Rum River Watershed	\$25,000.00		\$25,000.00	N

## Indicator Summary

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Special Projects	Water Pollution (Reduction Estimates)	2.5	Phosphorus (Est. Reduction)
Subsurface Sewage Treatment Systems	Water Pollution (Reduction Estimates)	6	Phosphorus (Est. Reduction)
Subsurface Sewage Treatment Systems	Water Pollution (Reduction Estimates)	18	Nitrogen
Wetland Restoration/Creation	Water Pollution (Reduction Estimates)	2	Phosphorus (Est. Reduction)
Urban Stormwater Management Practices	Water Pollution (Reduction Estimates)	4.9	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	.1	Phosphorus (Est. Reduction)

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
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## Grant Activities

### Activity Name: Admin

**Activity Category:** Administration/Coordination

**Has Rates and Hours?:** Yes

**Description:** Grant administration/coordination including bookkeeping, record-keeping, and required reporting.

Milestones: Annual elink reporting.

Staff & credentials:

Kathy Berkness, Office Administrator. 15+yrs at ACD managing state grants in elink.

Chris Lord, District Manager - 30+yrs at ACD managing state grants.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Local Fund	LRRWMO, URRWMO	\$3,716.00	\$179.50	\$3,536.50	12/31/2022	Y

### Actual Results

2022 - Bookkeeping and elink reporting.

## Activity Name: Ag BMPs

**Activity Category:** Agricultural Practices

**Has Rates and Hours?:** Yes

**Description:** Description for both urban and ag BMPs activities: Install highly ranked BMPs identified in SWAs to improve water quality in high priority water resources. Up to 5 biofiltration basins, 1 pond modification, 1 check dam, 1 hydrodynamic device, ag water quality practice, or a combination will be completed. Projects to be completed will come from these subwatershed assessment studies: City of St. Francis Rum River (2016), Ford Brook (underway in 2022), City of Anoka (2016), City of Ramsey (2016), and the anticipated 2023 studies of the Rum and Mississippi drainages being completed with FY20 Rum metro WBIF. Projects will be selected based on cost effectiveness at phosphorus reduction. Designs will be guided by the MN Stormwater Manual and NRCS standards. Actual pollutant reductions achieved will be dependent upon selected projects, and a minimum anticipated reduction is 5 lbs/yr TP across all target waterbodies and across both the urban and agricultural activities in this grant. Milestones: 2023 project ID, 2024 design, 2025 installation.

### Staff & credentials:

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

C. Lord, District Mgr - 30+ yrs ACD project mgmt. BS natural resources.

J. Wagner, Water Resource Specialist. 6 yrs ACD project mgmt. BS in environmental sci.

M. Haustein, Stormwater & Shoreline Specialist. 12 yrs ACD project mgmt. MS in ecology.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$25,000.00		\$25,000.00		N
Local Fund	LRRWMO, URRWMO	\$2,800.00		\$2,800.00		Y

### Actual Results

2022 - No expenses.

## Activity Name: Critical area planting

Activity Category: Special Projects

Has Rates and Hours?: Yes

**Description:** Establish native plantings for the benefit of water quality in critical areas. Critical areas are defined as shorelands or other land with a surface flow path to priority waters such that the planting offers soil stabilization and runoff filtering. Plantings may be in conjunction with other BMPs, such as other shoreland stabilization practices.

Target locations:

- (1) RIM easements - Approx 10 acres at Rum RIM easements on riparian parcels in Anoka County.
- (2) Locations in shoreland prioritization studies - Approx 2,500 sq ft at shorelands identified in ACD inventories.
- (3) Others in critical areas.

Work may include site prep, seeding, and may include a short term vendor maintenance contract. Any maintenance contracts must be completed within the grant term. A one year maintenance contract with a professional service provider will be included when possible and deemed warranted to ensure project success.

Pollutant reductions will be estimated with either the sheet erosion or sheet & rill BWSR calculators. For streambank or lakeshore stabilization the BWSR streambank calculator or WI NRCS method may be used. A minimum anticipated reduction is 2.5 lbs/yr TP.

Funds for this activity may be used in non-Anoka Co portions of the Rum River watershed provided match funds are not from the LRRWMO or URRWMO. The primary target waterbody is the Rum River. Secondary targets are Rum River tributaries.

Staff & credentials:

Carrie Taylor, Restoration Ecologist. 6 yrs ACD ecological restoration project mgmt. JAA for critical area planting. MS in Land Rehabilitation.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$46,375.00		\$46,375.00		N
Landowner Fund	Landowners	\$4,000.00		\$4,000.00		Y

## Actual Results

2022 - No expenses.

## Activity Name: Project development

**Activity Category:** Project Development

**Has Rates and Hours?:** Yes

**Description:** Staff time to support the urban BMPs, ag BMPs, critical area planting, and wetland restoration activities. May include preliminary information gathering and outreach to secure willing landowners. Approx 25% ag BMPs, 25% urban BMPs, 5% SSTS fix up, 20% critical area planting, and 25% wetland restoration.

Staff and credentials:

Carrie Taylor, Restoration Ecologist. 6 yrs ACD ecological restoration project mgmt. JAA for critical area planting. MS in Land Rehabilitation.

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

C. Lord, District Mgr - 30+ yrs ACD project mgmt. BS natural resources.

J. Wagner, Water Resource Specialist. 6 yrs ACD project mgmt. BS in environmental sci.

M. Haustein, Stormwater & Shoreline Specialist. 12 yrs ACD project mgmt. MS in ecology.

## Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$14,082.00	\$1,453.92	\$12,628.08	12/31/2022	N

## Actual Results

2022 - Updated ranking of candidate projects in the City of St. Francis subwatershed assessment. Worked with the school district and City on candidate projects. Three projects rose to the top and were pursued: a stormwater pond enhancement at the high school (later dropped by based on technical site assessment), swale check dams at the high school, and a network of rain gardens in the 225th Ave neighborhood.

## Activity Name: SSTS fix up

**Activity Category:** Subsurface Sewage Treatment Systems

**Has Rates and Hours?:** Yes

**Description:** Repair or replace up to four (4) non-compliant septic systems. ACD grant policies apply, including that funding is only available to households meeting low income criteria and cost share is on a sliding scale where the landowner pays 10-20% dependent upon income. These BWSR funds will be used only after MPCA SSTS fix up grant funds to the ACD (approx \$35K/yr) have been exhausted, per BWSR policy.

Priority areas for use of these funds are CWMP priority restoration and protection waterbodies which include Lake George, Pickerel Lake, East Twin Lake, the Rum River, Cedar Creek, & Ford Brook. Groundwater quality is also an aim of this activity and is prioritized everywhere due to the geology. Priority goes to riparian parcels. Anticipated pollutant reductions, based on the BWSR calculator, are 6 lbs of TP/yr and 18 lb N/yr per SSTS.

Milestones: 1-2 SSTS replacements each year.

ACD staff and credentials:

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

K. Larson, Water Resource Technician. 4 yrs of water monitoring and 2 yrs of managing the ACD septic system fix up grant program. BS in environmental studies.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$62,000.00		\$62,000.00		N
Landowner Fund	Landowners	\$6,200.00		\$6,200.00		Y

### Actual Results

2022 - No work.



## Activity Name: Tech/Engineering

**Activity Category:** Technical/Engineering Assistance

**Has Rates and Hours?:** Yes

**Description:** Staff time to support the urban BMPs, ag BMPs, critical area planting, SSTS fix up, and wetland restoration activities. May include site assessments, surveys, analysis and design, construction processes (bidding, contracts, oversight/inspections, as-builts and similar.

Approx 25% ag BMPs, 25% urban BMPs, 5% SSTS fix up, 20% critical area planting, and 25% wetland restoration.

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

C. Lord, District Mgr - 30+ yrs ACD project mgmt. BS natural resources.

J. Wagner, Water Resource Specialist. 6 yrs ACD project mgmt. BS in environmental sci.

M. Haustein, Stormwater & Shoreline Specialist. 12 yrs ACD project mgmt. MS in ecology.

K. Larson, Water Resource Technician. 4 yrs of water monitoring and 2 yrs of managing the ACD septic system fix up grant program. BS in environmental studies.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$43,700.00	\$4,636.27	\$39,063.73	12/31/2022	N

### Actual Results

2022 - Survey, including bathymetry, of a candidate stormwater pond enhancement at St. Francis High School, which led to the project being dropped. Survey, soil borings, and initial design work for swale check dams at the high school. Stormwater mapping analysis for rain gardens in the 225th Ave neighborhood.

## Activity Name: Trott Brook assessment

**Activity Category:** Planning and Assessment

**Has Rates and Hours?:** Yes

**Description:** Study of the Trott Brook corridor to identify causes of low oxygen and biotic impairments, and identify projects to address it. Target areas are W of Variolite St and E of Nowthen Blvd where there are larger parcels sizes that facilitate BMP installation.

Study components will include: (1) Review of historically collected data including water quality, (2) rapid desktop & field assessment of entire target stream length by canoe to identify current conditions, (3) Detailed analysis of selected stream reaches using BANCs analysis to estimate stream bank erosion, Pfankuch or other habitat assessment, measurement of pattern/profile variables (width, cross section, slope, etc), or others. (4) Others as recommended by topic matter experts at the MN DNR or selected consultants. These data will be analyzed to evaluate stream restoration project options. The final output of this activity is a report identifying causes of stream impairments and in- or near-stream projects to address these issues. For favored projects, a concept, cost estimate, and estimated benefit will be developed. Project types may include wetland or stream restoration, bank stabilization, re-meandering ditched reaches, adding in-stream habitat features, or others.

This activity may be supplemented with locally funded (non-grant, non-match) water quality monitoring, as determined during the LRRWMO 2023 budgeting process.

Anticipated collaborators on this activity include the City of Ramsey, LRRWMO, and MN DNR.

Milestones: 2024 study start, 2025 completion.

Staff and credentials:

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

C. Lord, District Mgr - 30+ yrs ACD project mgmt. BS natural resources.

J. Wagner, Water Resource Specialist. 6 yrs ACD project mgmt. BS in environmental sci.

M. Haustein, Stormwater & Shoreline Specialist. 12 yrs ACD project mgmt. MS in ecology.

B. Keith, 1 yr of watershed assessments . MS in environmental studies.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$30,000.00		\$30,000.00		N
Local Fund	LRRWMO	\$3,000.00	\$853.89	\$2,146.11	12/31/2022	Y

### Actual Results

2022 - Outreach to colleagues, especially at the DNR and MPCA, to advise study design.

## Activity Name: Urban BMPs

**Activity Category:** Urban Stormwater Management Practices

**Has Rates and Hours?:** Yes

**Description:** Description for both urban and ag BMPs activities: Install highly ranked BMPs identified in SWAs to improve water quality in high priority water resources. Up to 5 biofiltration basins, 1 pond modification, 1 check dam, 1 hydrodynamic device, ag water quality practice, or a combination will be completed. Projects to be completed will come from these subwatershed assessment studies: City of St. Francis Rum River (2016), Ford Brook (underway in 2022), City of Anoka (2016), City of Ramsey (2016), and the anticipated 2023 studies of the Rum and Mississippi drainages being completed with FY20 Rum metro WBIF. Projects will be selected based on cost effectiveness at phosphorus reduction. Designs will be guided by the MN Stormwater Manual. Actual pollutant reductions achieved will be dependent upon selected projects, and a minimum anticipated reduction is 5 lbs/yr TP across all target waterbodies and across both the urban and agricultural activities in this grant. Milestones: 2023 project ID, 2024 design, 2025 installation.

Staff and credentials:

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

C. Lord, District Mgr - 30+ yrs ACD project mgmt. BS natural resources.

J. Wagner, Water Resource Specialist. 6 yrs ACD project mgmt. BS in environmental sci.

M. Haustein, Stormwater & Shoreline Specialist. 12 yrs ACD project mgmt. MS in ecology.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Local Fund	LRRWMO, URRWMO	\$14,000.00		\$14,000.00		Y
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$125,000.00		\$125,000.00		N
<b>Actual Results</b>						
2022 - No work.						

## Activity Name: Wetland restoration

**Activity Category:** Wetland Restoration/Creation **Has Rates and Hours?:** Yes

**Description:** We will conduct a desktop inventory to identify candidate wetland restoration sites using the Restorable Wetland Prioritization Tool ([www.wetlandrestore.org](http://www.wetlandrestore.org)) and other local data. This will be completed using program development activity funds. Thereafter, we will promote the opportunity and work with willing landowners to restore wetlands using tech/engineering and wetland restoration activity funds. In accordance with the stipulation that WBIF fund expenditures must have a primary water quality benefit, these projects are anticipated to be hydrologic restorations and not simply vegetative restoration of existing wetlands. Because of the importance of vegetative establishment within a water quality improvement project, expenditures may vegetative establishment services during the grant term. Anticipated deliverables include one wetland restoration. A minimum anticipated reduction is 2 lbs/yr TP. Priority locations are those within the subwatersheds of priority waters in the URRWMO or LRRWMO Plans or CWMP.

Milestones: 2023 project ID, 2024 design, 2025 installation.

Staff and credentials:

B. Wozney, Wetland Specialist. 20+yrs overseeing wetland projects and wetland regulation. BS in natural resources.

J. Schurbon, Watershed Projects Mgr - 21 yrs ACD project mgmt. MS in ecology.

C. Lord, District Mgr - 30+ yrs ACD project mgmt. BS natural resources.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022 Metro WBIF - Rum River Watershed	\$25,000.00		\$25,000.00		N
Local Fund	LRRWMO, URRWMO	\$3,400.00		\$3,400.00		Y
<b>Actual Results</b>						
2022 - No work.						