



# Grant Progress Report

## Watershed Based Implementation JAN 2021

**Grant Title:** 2021 Metro WBIF – Mississippi East Watershed – Washington Co.

**Grant Award (\$):** \$54,274.00

**Grant Execution Date:** 03/31/2021

**Grant ID:** C21-2037

**Required Match (%):** 10

**Grant End Date:** 12/31/2024

**Grantee:** Washington County

**Required Match (\$):** \$5,427.40

**Fiscal Agent:** Washington County

**Grant Day-to-Day Contact:** Stephanie Souter

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$54,274.00	\$54,237.92	\$36.08
Match Funds	\$13,000.00	\$13,083.00	(\$83.00)
Other Funds	\$973.00	\$973.00	\$0.00
<b>Total</b>	<b>\$68,247.00</b>	<b>\$68,293.92</b>	<b>(\$46.92)</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?
Well sealing	Groundwater	Local Fund	Washington County match for well sealing	\$13,000.00	\$13,083.00	(\$83.00)	Y
Grant Administration	Administration/Coordination	Current State Grant	2021 Metro WBIF – Mississippi East Watershed – Washington Co..	\$1,710.00	\$747.50	\$962.50	N
Surface and	Administration/Coordination	Current State Grant	2021 Metro WBIF – Mississippi East	\$2,964.00	\$3,428.50	(\$464.50)	N

<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>
Groundwater BMP Implementation			Watershed – Washington Co.				
Well/SSTS education for realtors and homeowners	Education/Information	Current State Grant	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$3,000.00	\$3,449.92	(\$449.92)	N
Smart salting class	Education/Information	Current State Grant	2021 Metro WBIF – Mississippi East Watershed – Washington Co..	\$5,600.00	\$5,612.00	(\$12.00)	N
Surface and Groundwater BMP Implementation	Forestry Practices	Current State Grant	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$20,000.00	\$20,000.00	\$0.00	N
Well sealing	Groundwater	Current State Grant		\$13,000.00	\$13,000.00	\$0.00	N
SSTS fix-up grant	Subsurface Sewage Treatment Systems	Current State Grant	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$8,000.00	\$8,000.00	\$0.00	N
SSTS fix-up grant	Subsurface Sewage Treatment Systems	Other Funds	2023 - Septic Treatment Systems Upgrade - NRBG (Washington County)	\$973.00	\$973.00	\$0.00	N

## Indicator Summary

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Pathogens (E. Coli)	68800000000000	Cfu
Water Pollution (Reduction Estimates)	BOD 5	403	Lbs/Yr
Water Pollution (Reduction Estimates)	Total Suspended Solids (TSS)	233	Mg/L
Water Pollution (Reduction Estimates)	Nitrogen	14	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	10	Lbs/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Pollution Prevention	Prevention	14	Count
Water Pollution (Reduction Estimates)	BOD 5	126	Lbs/Yr
Water Pollution (Reduction Estimates)	Nitrogen	11	Lbs/Yr
Water Pollution (Reduction Estimates)	Pathogens (E. Coli)	43000000000000	Cfu
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	6	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.035	Tons/Yr

## Grant Activities

### Activity Name: Grant Administration

**Activity Category:** Administration/Coordination

**Staff time?:** Yes

**Description:** Planner will Administer the grant including coordinating all activities, tracking time and money spent, and reporting results.

This will occur every year for each of the 3 years of the grant. The milestones will be that the reporting is completed each year.

#### 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	2021 Metro WBIF – Mississippi East Watershed – Washington Co..	\$1,710.00	\$747.50	\$962.50	01/19/2024	N

#### Actual Results

2023: planner administered the grant including coordinating all activities, tracking time and money spent, and reporting results.

2024: planner and manager time for reporting and coordination.

## Activity Name: Protect private wells in flood prone areas

**Activity Category:** Education/Information

**Staff time?:** Yes

**Description:** This will be done by using MDH data to identify private wells in flood prone areas to do targeted outreach and education and potentially offer upgrades if they are needed. The wells identified by MDH are wells that were likely not in the flood zone when built but with the change in weather patterns (climate change) these wells now are a risk to contaminating groundwater and surface water. Using criteria determined with the guidance of MDH approximately 78 well owners in the East Mississippi area will receive direct outreach. Likely just over half might request site visits. The upgrade costs vary from \$0 to \$1,000. We could likely be able to assist 20 to 40 upgrades depending on actual costs.

Planner will develop outreach materials

Environmental Scientist will conduct the site visits

Year 1 milestones:

Develop outreach materials

Send out materials

Year 2 milestones:

Work with interested well owners to educate and upgrade wells to protect from flooding

Year 3 milestones:

Continue work from year 2 and wrap up grant

REVISION: Due to COVID-19 impacts, staff turnover, and other program constraints, the budget initially allocated to this activity was moved to other activities per an approved amendment and no work will be completed for this activity.

## Actual Results

2021- preliminary discussions and review of well data, no additional actions.

2022- due to COVID-19 response and staff changes, this work did not proceed. Evaluating options for 2023.

2023 - project discontinued, funds distributed to other activities.

## Activity Name: SSTS fix-up grant

**Activity Category:** Subsurface Sewage Treatment Systems

**Staff time?:** No

**Description:** Priority is systems that are non-compliant due to failed compliance inspection. Targeted to low income systems within the East Mississippi Watershed. One system will be replaced.

No staff time will be billed to the grant for this activity.

Environmental Scientist will find system and owner that qualifies for program. This will follow current standard procedures for our Septic replacement grants and loans. The property owner will use a licensed septic contractor and the department will have a signed agreement with the land owner.

Year 1 milestone:

Identify system in the watershed that qualifies

Year 4 milestone:

Replace system

Target water resources include: groundwater

## 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	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$8,000.00	\$8,000.00	\$0.00	12/21/2023	N
Current State Grant	2023 - Septic Treatment Systems Upgrade - NRBG (Washington County)	\$973.00	\$973.00	\$0.00	12/21/2023	N

### Actual Results

No fix up grant awarded in 2021 or 2022. No eligible systems. Evaluating options for 2023.

SSTS fix up grant awarded to qualifying STSS owners in Cottage Grove, East Mississippi Watershed District. System Replaced.

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Nitrogen	11	Lbs/Yr
Phosphorus (Est. Reduction)	6	Lbs/Yr
Sediment (Tss)	0.035	Tons/Yr
BOD 5	126	Lbs/Yr
Pathogens (E. Coli)	43000000000000	Cfu

Activity Action Name:	SSTS #7 Cottage Grove Lehigh	Activity Count: 1
Practice Type:	126M - Septic System Improvement	Size/Units: 1 - Count
TA Provider/JAA:	Private Consultant	Lifespan: 30 Years
Practice Description:	SSTS Pressure Bed System Installed	Install Date: 11/13/2023
		Mapped: No

Indicator Name	Units	Value	Calculation Tool	Waterbody
Pathogens (E. Coli)	Cfu	43000000000000	Septic System Improvement Estimator (SSIE)	Groundwater
Sediment (Tss)	Tons/Yr	0.035	Septic System Improvement Estimator (SSIE)	Groundwater
Phosphorus (Est. Reduction)	Lbs/Yr	6	Septic System Improvement Estimator (SSIE)	Groundwater
BOD 5	Lbs/Yr	126	Septic System Improvement Estimator (SSIE)	Groundwater
Nitrogen	Lbs/Yr	11	Septic System Improvement Estimator (SSIE)	Groundwater

## Activity Name: Smart salting class

**Activity Category:** Education/Information

**Staff time?:** Yes

**Description:** One class per year for four years will be offered to Property Managers, Road Maintenance Personnel, and Businesses within the watershed that conduct salting activities to educate them on practices to use less salt in order to reduce contamination of surface and groundwater resources. Estimate 25 attendees per class.

An educator with EMWREP will coordinate and promote classes.

The state approved consultant will teach the classes.

Year 1 milestone:

Jointly host one class with Dakota County

Year 2 milestone:

Jointly host one class with Dakota County

Year 3 milestone:

Jointly host one class with Dakota County

Year 4 milestone:

Jointly host one class with Dakota County

Target water resources include: groundwater

### 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	2021 Metro WBIF – Mississippi East Watershed – Washington Co..	\$5,600.00	\$5,612.00	(\$12.00)	12/31/2024	N

#### Actual Results

2021 - one smart salt class was hosted jointly with Dakota County, 18 participants.

2022 - one smart salt class hosted jointly with Dakota County, 44 participants.

2023 - one smart salt class hosted jointly with Dakota County, 115 participants.

One smart salting class held October 23, 2024, with 36 attendees.

## Activity Name: Surface and Groundwater BMP Implementation

**Activity Category:** Administration/Coordination

**Staff time?:** Yes

**Description:** Partner with Washington Conservation District (WCD), to install most cost-effective BMPs with willing landowners from SWAs including rural/agricultural structural and nonstructural practices. Focus is on practices that will have a groundwater quality benefit and protect drinking water. Practices must meet the WBIF eligibility requirements and include, but are not limited to, soil health activities, volume control, bioretention, and other high performance practices.

This portion of the funding is for administrative functions of the program.

Target water resources include: groundwater, Hardwood Creek, and Clearwater Creek.

#### 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	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$2,964.00	\$3,428.50	(\$464.50)	12/30/2024	N

#### Actual Results

Administration time for WCD staff to implement practices, complete reporting, and coordinate with County staff to ensure successful completion of the grant.

## Activity Name: Surface and Groundwater BMP Implementation

**Activity Category:** Forestry Practices

**Staff time?:** No

**Description:** Partner with Washington Conservation District (WCD), to install most cost-effective BMPs with willing landowners from SWAs including rural/agricultural structural and nonstructural practices. Focus is on practices that will have a groundwater quality benefit and protect drinking water. Practices must meet the WBIF eligibility requirements and include, but are not limited to, soil health activities, volume control, bioretention, and other high performance practices. This portion of the funding is for agricultural practices on the land.

Target water resources include: groundwater, Hardwood Creek, and Clearwater Creek.

### 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	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$20,000.00	\$20,000.00	\$0.00	01/09/2025	N

### Actual Results

Forest farming project (Ramsey) implemented

Activity Action Name: Ramsey Forest Farming

Practice Type: 379 - Multi-Story Cropping

TA Provider/JAA: SWCD

Practice Description:

Activity Count: 1

Size/Units: 7 - Acres

Lifespan: 10 Years

Install Date: 11/30/2024

Mapped: Yes

## Activity Name: Well sealing

**Activity Category:** Groundwater

**Staff time?:** No

**Description:** Wells that are no longer in use (abandoned wells) are a contamination risk to groundwater and surface water. This project will prioritize sealing of abandoned wells in high risk areas that include drinking water supply management areas and contamination areas. 13 wells will be sealed.

No staff time is billed to the grant for this activity.

Planner will map target area and promote well sealing program. This activity will be incorporated into the existing well sealing program and follow that procedure. It requires an Environmental Scientist from the department to do a site visit and verify there is an eligible well. Then the land owner must sign an agreement with the department. The land owner has to get two bids from licensed well contractors and choose the lowest of the two bids. Both bids along with paid invoice and record of sealing are submitted to the department before land owner is reimbursed.

Year 1 milestone:

Map target area

Year 2 milestone:

seal 7 wells

Year 3 milestone:

seal 7 wells

Target water resources include: groundwater

### 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		\$13,000.00	\$13,000.00	\$0.00	08/23/2024	N
Local Fund	Washington County match for well sealing	\$13,000.00	\$13,083.00	(\$83.00)	08/23/2024	Y

**Actual Results**

2021 - 5 wells sealed in East Mississippi watershed.

2022 - 3 wells sealed in East Mississippi watershed.

2023: 2 wells sealed in East Mississippi watershed.

2024: 4 wells sealed in East Miss watershed using this fund.

**Final Indicators**

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Prevention	14	Count

Activity Action Name:	2021: Wells #1-5	Activity Count: 5
Practice Type:	351 - Well Decommissioning	Size/Units:
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:	Wells sealed in accordance with MN Well Code.	Install Date: 12/31/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	5	Other	groundwater

Activity Action Name:	2022: Wells #6-8	Activity Count: 3
Practice Type:	351 - Well Decommissioning	Size/Units: 1 - Count
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:	Wells sealed in accordance with MN Well Code.	Install Date: 12/31/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	3	Other	Groundwater

Activity Action Name:	2024: Wells #11-14	Activity Count: 4
Practice Type:	351 - Well Decommissioning	Size/Units: 1 - Count
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:		Install Date: 12/31/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	4	Other	Groundwater

Activity Action Name:	2023: Wells #9-10	Activity Count: 2
Practice Type:	351 - Well Decommissioning	Size/Units: 1 - Count
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:		Install Date: 12/31/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	2	Other	Groundwater

## Activity Name: Well/SSTS education for realtors and homeowners

**Activity Category:** Education/Information

**Staff time?:** Yes

**Description:** Homeowner and realtor classes or events that feature SSTS, wells/groundwater, proper disposal of hazardous waste. Realtor classes may focus on SSTS only, or a combination of water-related topics. Goal is to host at least 2 realtor classes and 1 homeowner classes. The county may partner with other organizations for registering and/or co-teaching realtor courses (e.g. realtor associations, U of M, etc).

Costs associated with staff time, materials, and refreshments.

Target water resources include: groundwater

### 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	2021 Metro WBIF – Mississippi East Watershed – Washington Co.	\$3,000.00	\$3,449.92	(\$449.92)	12/31/2024	N

### Actual Results

No activities in 2023.

Held 2 realtor classes (1 in September, 1 in December) that shared information about SSTS, wells/groundwater, and proper disposal of household hazardous waste. Partnered with Saint Paul Area Association of Realtors to get the course re-approved by Minnesota Department of Commerce so realtors can received continuing education credits from attending the course.

Sept 13, 2024: 39 attendees

Dec 17, 2024: 21 attendees

In addition, a resident well education event was held in Forest Lake on May 21, 2024. 187 homes had their water tested and received information on water quality and wells.