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Wisconsin Department of Natural Resources
Bureau of Watershed Management (WT/3)
101 S. Webster St.
Madison, WI 53703
PO Box 7921
Madison, WI 53707-7921

JUL 08 2014

DNR BUREAU OF WATERSHED
FINANCIAL ASSISTANCE**Final Report Form 3400-189** (rev. 7/30/09)

- Targeted Runoff Management Grant Program (ch. NR 153)
- Notice of Discharge Program (ch. NR 153)
- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

NOTICE: This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

INSTRUCTIONS: Your grant agreement requires you to submit a Final Report with your final reimbursement request. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR as described in the instructions.

1. GRANT TYPE. Check the one that applies.

- ☐ Targeted Runoff Management Grant – Agricultural
 ☐ Targeted Runoff Management Grant – Urban
☒ Urban Nonpoint Source & Storm Water Management Grant – Construction
 ☐ Urban Nonpoint Source & Storm Water Management Grant – Planning
☐ Notice of Discharge Grant

2. PROJECT NAME & LOCATION.

2.1. Project Name: Grange Avenue Green Streets - 2012	2.2. Grant Number: USC-MI01-40251-12	
2.3. Governmental Unit Name: City of Milwaukee - Department of Public Works	2.4. Primary Watershed Name: Kinnickinnic River	2.5. Watershed Code: MI01

NOTE FOR SECTION 2.6 (which follows):

Section 2.6. includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.

2.6 Site Location(s) →	A.	B.	C.	D.	E.
Name of Cost-Share Recipient or Governmental Unit	City of Milwaukee - Dept. of Public Works				
Cost-Share Agreement Number (Agricultural only)					
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	040400030501				
Nearest Surface Receiving Water Affected					
Name:	Kinnickinnic River				
Waterbody Identification Code(s) (WBIC):	15100				
Nearest Impaired Water Affected					
Name:	Kinnickinnic River				
Waterbody Identification Code(s) (WBIC):	15100				
Pollutants Reduced	Solids				
Impairments/Impacts Addressed	TSS Removal				

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	06N	06N	06N	06N	06N
Range	R22E	R22E	R22E	R22E	R22E
Section	30* 31* *section line divides area	30* 31* *section line divides area	30* 31* *section line divides area	30* 31* *section line divides area	32* 29* *section line divides area
Quarter	SE NE	SE NE	SE NE	SE NE	NW SW
Quarter-Quarter	SE NE	SE NE	SE NE	SE NE	NW SW
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	42°56'41.1" N	42°56'41.1" N	42°56'41.1" N	42°56'41.1" N	42°56'41.1" N
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	87°56'1.3" W	87°55'55.9" W	87°55'54.6" W	87°55'51.8" W	87°55'42.4" W

3. SUMMARY OF RESULTS.

Table A. Agricultural Projects. – Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities			
A.1. Management Measures	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting "T"	acres	
Manure Storage Facilities: New Construction/Alterations	Number of facilities	facilities	
	Number of animal units	animal units	
Manure Storage Facilities: Closure	Number of facilities	facilities	
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	facilities	
	Number of animal units	animal units	
Clean Water Diversions in WQMA	Pollutant load reduction	lbs.	
	Number of farms with diversions	farms	
	Number animal units	animal units	
Nutrient Management on Agricultural Land	Acres planned	acres	
Prohibition: Manure Storage Overflow	Number of farms	farms	
	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	lbs.	
	Number of facilities	facilities	
	Number of animal units	animal units	

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	06N	06N	06N	06N	06N
Range	R22E	R22E	R22E	R22E	R22E
Section	32* 29* *section line divides area	32* 29* *section line divides area	29	29	29
Quarter	NE SE	NE SE	SW	SW	SW
Quarter-Quarter	NW SW	NW SW	SE	SE	SE
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	42°56'41.1" N	42°56'41.1" N	42°56'43.2" N	42°56'44.2" N	42°56'45.1" N
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	87°55'19.8" W	87°55'14.2" W	87°55'6.3" W	87°55'3.8" W	87°55'1.0" W

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	06N	06N	06N		
Range	R22E	R22E	R22E		
Section	29	29	29		
Quarter	SE	SE	SE		
Quarter-Quarter	SE	SE	SE		
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	42°56'48.5" N	42°56'49.4" N	42°56'50.3" N		
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	87°54'49.7" W	87°54'46.7" W	87°54'43.8" W		

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Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
	Number of farms	farms	

Table A. Agricultural Projects. (continued)			
A.2. Other Management Measures	Units of Measure	Quantity	Measurement Method Used
Streambank & Shoreline Protection	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		

Table B. Urban Construction Projects Serving Developed Areas.			
B.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities	TSS reduced	3039 lbs.	WinSLAMM
	TSS reduction	98 %	WinSLAMM
B.2. Other Management Measures			
20-40% Reduction in TSS for non-NR 216 communities	TSS reduced	lbs.	
	TSS reduction	%	
Infiltration	Pre-development stay-on volume	%	
	Stay-on volume	ft ³ /year	
Peak flow discharge for 2 year/24 hour design storm	Change in cubic feet per second for design year	ft ³ /sec	
Protective areas	Bank protected	feet	
Fueling & maintenance areas	Oily sheen presence reduced	☐ Yes ☐ No	
Streambank & Shoreline Protection	Bank erosion reduced	tons	
	Bank protected	feet	
Other:	Pollutant load reduction (if method available)		
	Units (use feet, acres or number as applicable)		

Table C. Urban Planning Projects.

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C.1. Governmental unit(s) involved (list by name):

C.2. Estimate total acres covered by the planning product:

Existing Developed Urban Areas	New Development	Total Acres
acres	acres	acres

C.3. Products developed (check all below that apply)

Identify Documents by Name (if applicable)

- ☐ Storm Water Plan
- ☐ Construction or Erosion Ordinances
- ☐ Post-construction Storm Water Ordinances
- ☐ Other Types of Storm Water Quality Ordinances
- ☐ Financing Methods: identified and evaluated
- ☐ Financing Methods: developed or implemented
- ☐ I & E Plan
- ☐ I & E Implementation Activities
- ☐ Other:

C.4. Identify the Storm Water goals addressed (check all that apply)

- ☐ Reduce TSS
- ☐ Maintain infiltration
- ☐ Control Peak Flow
- ☐ Protective Areas
- ☐ Control of Fueling & Maintenance Areas
- ☐ Remove Illicit Discharges
- ☐ Other:

Comments:

4. Satisfaction of Notice Requirements. If cost sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Chs. NR 151 or 243 Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
				☐	☐	
				☐	☐	

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				☐	☐	
				☐	☐	

5. Additional Information. (Space will expand to fit your text.)

We have been monitoring the bio-retention facilities during rain events and they appear to be functioning as designed. During heavy rain events water will pool in the depressed bio-retention areas prior to infiltrating through the engineered soil. After rain events the facilities were observed to be dry with all ponding water having been infiltrated through the engineered soil. Per these observations, we have concluded that the bio-retention facilities are working as designed.

6. Summary of Project Challenges. (Space will expand to fit your text.)

The biggest challenge in the field as well as during the design process was determining the location of the underground utilities surrounding the project area. During design accurate utility locations were needed to identify suitable sites for bio-retention and coordinate with utility owners to ensure service was not interrupted during construction or affected during the life of the bio-retention areas.

In the field the contractor was required to work around various utilities which included high voltage street lighting, water main, sanitary sewer main, irrigation lines, telephone lines, etc. The contractor was required to locate and excavate around many of these utilities. Work was also done in high traffic areas which required additional measures to protect the construction crew as well as the general public.

7. Grantee Certification.

Checking here ☒ certifies that, to the best of your knowledge, the information contained in this report is correct.

Name of Authorized Representative (type or print) ↓

Jeffrey S. Polenske

Title of Authorized Representative (type or print) ↓

City Engineer (City of Milwaukee)

Signature of Authorized Representative

Date

6/27/14

8. For Departmental Use Only.

Regional NPS Coordinator – Please complete the following:

8.A. Check here ☒ If you have received the following from the project sponsor:

- one (1) printed, signed, original Final Report + attachments
- one (1) electronic version of Final Report.

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

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8.B. Comments about this project:

All units along W. Grange Ave are complete.
Plants appear to be doing well and the
overall aesthetics pleasing. Engineered to do
the job, money well spent. JAL

8.C. Type or print Name of Regional NPS Coordinator →

Jamie Lambert

8.D. Signature of Regional NPS Coordinator

Jamie Lambert

8.E. Date

7/03/2014

COPY



Department of Public Works
Infrastructure Services Division

Ghassan Korban
Commissioner of Public Works

Preston Cole
Director of Operations

Jeffrey S. Polenske
City Engineer

June 25, 2014

Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee WI, 53212

Attn: Jamie Lambert – Wastewater Specialist

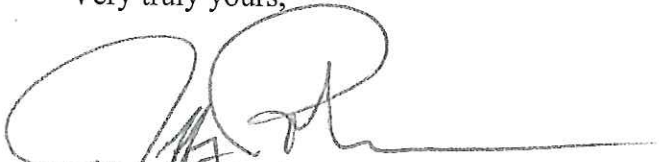
Subject: Urban Nonpoint Source & Storm Water (UNPS&SW)
Grant Program Final Report (Form 3400-189)

Dear Ms. Lambert:

Transmitted herewith is the Final Report (Form 3400-189) for the subject UNPS&SW grant. This report is being submitted to finalize grant number **USC-MI01-40251-12 for the Grange Avenue Green Streets – 2012** project located in the City of Milwaukee. Also included in the transmittal is a compact disc containing an electronic copy of the report along with the project photos.

If you have any questions, please contact Mr. Tim Thur at (414) 286-2463.

Very truly yours,



Jeffrey S. Polenske, P.E.
City Engineer

NMS
TJT NMJ: adj
Enclosure
c: David Calhoon - WDNR
23-10

