



## Grant All-Detail Report Multipurpose Drainage Management 2020

**Grant Title** - South Heron Lake TMDL Implementation: Phase 3

**Grant ID** - C20-6058

**Organization** - Heron Lake WD

<b>Original Awarded Amount</b>	<b>\$43,000.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	<b>\$10,750.00</b>	<b>Original Grant End Date</b>	12/31/2022
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Jan Voit
<b>Current Awarded Amount</b>	<b>\$43,000.00</b>	<b>Current End Date</b>	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$43,000.00	\$0.00	\$43,000.00
Total Match Amount	\$71,293.00	\$0.00	\$71,293.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$114,293.00</b>	<b>\$0.00</b>	<b>\$114,293.00</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	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Flowage Easement	Easements	Current State Grant	South Heron Lake TMDL Implementation: Phase 3	\$0.00			N
Flowage Easement	Easements	Landowner Fund	Landowner Match	\$27,300.00			Y
Grant Administration	Administration /Coordination	Local Fund	HLWD Inkind Contribution	\$993.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Storage and Treatment Wetland	Wetland Restoration/Creation	Current State Grant	South Heron Lake TMDL Implementation: Phase 3	\$25,000.00			N
Storage and Treatment Wetland	Wetland Restoration/Creation	Landowner Fund		\$25,000.00			Y
Water and Sediment Control Basins	Conservation Drainage	Current State Grant	South Heron Lake TMDL Implementation: Phase 3	\$18,000.00			N
Water and Sediment Control Basins	Conservation Drainage	Landowner Fund	Landowner Match	\$18,000.00			Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Storage and Treatment Wetland	PHOSPHORUS (EST. REDUCTION)	617 LBS/YR	South Heron Lake	RUSLE2 (UPDATED)	
Water and Sediment Control Basins	PHOSPHORUS (EST. REDUCTION)	1640 LBS/YR	South Heron Lake	BWSR CALC (SHEET AND RILL)	
Storage and Treatment Wetland	SEDIMENT (TSS)	584 TONS/YR	South Heron Lake	RUSLE2 (UPDATED)	
Water and Sediment Control Basins	SEDIMENT (TSS)	712 TONS/YR	South Heron Lake	BWSR CALC (SHEET AND RILL)	

### Final Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

Grant Activity - Flowage Easement	
Description	<p>This activity will include costs associated with securing the flowage easement for the 4.2 acre storage and treatment wetland. The BWSR easement template will be used for the flowage easement. This easement will be protected in perpetuity by the HLWD as drainage authority.</p> <p>Chuck Brandel, licensed professional engineer with ISG will create a preliminary design that shows the project boundary and review the plans with landowners. After securing landowner approval, final design and specifications will be done. An easement description will be drafted. The engineer will verify and present the information to the Board of Managers of the HLWD for approval. The engineer's job approval authority is available upon request.</p> <p>The perpetual flowage easement will be secured and held by the HLWD as drainage authority. The easement will be reviewed and approved by BWSR prior to wetland construction. Operation and maintenance will be the responsibility of the HLWD through drainage system funds. Costs associated with the easement will be funded through landowner match.</p>
Category	EASEMENTS
Start Date	End Date
Has Rates and Hours?	No
Actual Results	

Grant Activity - Grant Administration	
Description	Time spent by the HLWD Administrator to perform administrative duties and reporting. Staff time is estimated at five hours per year for the three-year grant period at a billing rate of \$66.20 per hour.
Category	ADMINISTRATION/COORDINATION
Start Date	End Date
Has Rates and Hours?	No
Actual Results	

## Grant Activity - Storage and Treatment Wetland

<b>Description</b>	<p>This activity will fund the restoration of a 4.2 acre basin area to restore a storage and treatment wetland. It will be designed to meet wetland restoration requirements, including a 50' buffer. If tile is upgraded upstream of the practice, the practice will be designed to lower or closely match the 2-, 5-, 10-, and 25-year 24 hour rainfall events.</p> <p>Chuck Brandel, ISG will have job approval authority for design and construction certification. He is a licensed engineer in Minnesota and has Technical Service Provider Certification for Minnesota, which is needed to meet NRCS design standards.</p> <p>The wetland restoration costs will be funded through grant dollars and landowner match.</p> <p>Implementation of the wetland restoration will coincide with the drainage improvement project for JD 3: Final Engineering Report and approval, construction documents, final design documents, and project bidding. All of these steps will be approved by the Board of Managers of the HLWD. Landowner engagement will be done throughout the process.</p> <p>Contractors will be required to list similar projects and references prior to bidding and will not be eligible if they do not have experience with the practice. ISG requires the contractor to have insurance and to be bonded. A preconstruction meeting with the HLWD, landowners, contractor, and ISG will be conducted to review the design and construction timelines. ISG will have trained inspectors onsite to ensure that construction meets the plans and specification requirements of the design. The project engineer will certify the final design and provide a detailed as-built.</p> <p>A perpetual flowage easement will be secured and held by the HLWD as drainage authority, as approved by BWSR, not to exceed the 2018 RIM rate. Operation and maintenance will be the responsibility of the HLWD through drainage system funds. Costs associated with the easement are landowner match.</p>			
<b>Category</b>	WETLAND RESTORATION/CREATION			
<b>Start Date</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 20%; text-align: center;"><b>End Date</b></td> <td style="width: 30%;"></td> </tr> </table>		<b>End Date</b>	
	<b>End Date</b>			
<b>Has Rates and Hours?</b>	No			
<b>Actual Results</b>				

## Grant Activity - Water and Sediment Control Basins

Description	<p>This activity will pay for costs associated with the construction of 15 CPS Code 410 structures in CD 3 and four in JD 14, both tributaries to South Heron Lake. Designed according to the criteria outlined in the FY20 RFP, these shallow depressions with native plantings slowly release water into the drainage system over a 24-48 hour period, reducing erosion and removing sediment with the temporary ponding of water.</p> <p>Chuck Brandel, ISG will have job approval authority for each project's design and construction certification. He is a licensed engineer in Minnesota and also has Technical Service Provider Certification for Minnesota, which is needed to design to meet NRCS standards.</p> <p>Implementation of the CPS Code 410 structures will coincide with the drainage improvement projects for CD 3 and JD 14: Final Engineering Report approval, construction documents, final design documents, and project bidding. All of these steps will be approved by the Board of Managers of the HLWD. Landowner engagement will be done throughout the process.</p> <p>Landowner funds will be used as match for design and construction. Payment for these projects will follow the BWSR GAM as outlined in the checklist for contract processing.</p> <p>Contractors will be required to list similar projects and references prior to bidding and will not be eligible if they do not have experience with the practice. ISG requires the contractor to have insurance and to be bonded. A preconstruction meeting with the HLWD, landowners, contractor, and ISG will be conducted to review the design and construction timelines. ISG will have trained inspectors on site to ensure that construction meets the plans and specification requirements of the design. The project engineer will certify the final design and provide a detailed as-built.</p>		
Category	CONSERVATION DRAINAGE		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

## Grant Attachments

Document Name	Document Type	Description
2020 Competitive Grant	Grant Agreement	2020 Competitive Grant - Heron Lake WD
Application	Workflow Generated	Workflow Generated - Application - 09/09/2019

Document Name	Document Type	Description
<b>Project Overview Map</b>	Grant	South Heron Lake TMDL Implementation: Phase 3
<b>South Heron Lake TMDL Implementation: Phase 3 Budget Worksheet</b>	Grant	South Heron Lake TMDL Implementation: Phase 3
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 03/24/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 01/22/2020
<b>grantmap_24552_2019-09-06_10-38-39-AM.jpg</b>	Grant	South Heron Lake TMDL Implementation: Phase 3