



## Grant Workplan Multipurpose Drainage Management 2019

**Grant Title** - South Heron Lake TMDL Implementation: Phase 2

**Grant ID** - C19-2122

**Organization** - Heron Lake WD

<b>Original Awarded Amount</b>	\$61,500.00	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$15,375.00	<b>Original Grant End Date</b>	12/31/2021
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Jan Voit
<b>Current Awarded Amount</b>	\$61,500.00	<b>Current End Date</b>	12/31/2021

### Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	\$61,500.00	\$0.00	\$61,500.00
Total Match Amount	\$127,479.95	\$0.00	\$127,479.95
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$188,979.95</b>	<b>\$0.00</b>	<b>\$188,979.95</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
Administration	Administration /Coordination	Local Fund	HLWD Match	\$979.95			Y
CPS Code 638 Water and Sediment Control Basin	Conservation Drainage	Current State Grant	South Heron Lake TMDL Implementation: Phase 2	\$16,500.00			N
CPS Code 638 Water and Sediment Control Basin	Conservation Drainage	Landowner Fund	Landowner Match	\$16,500.00			Y

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 2	\$0.00			N
Flowage Easement	Easements	Landowner Fund	Landowner Match	\$65,000.00			Y
Storage and Treatment Wetland Restoration	Wetland Restoration/Creation	Current State Grant	South Heron Lake TMDL Implementation: Phase 2	\$45,000.00			N
Storage and Treatment Wetland Restoration	Wetland Restoration/Creation	Landowner Fund	Landowner Match	\$45,000.00			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
<b>CPS Code 638 Water and Sediment Control Basin</b>	PHOSPHORUS (EST. REDUCTION)	902 LBS/YR	South Heron Lake	BWSR CALC (SHEET AND RILL)	
<b>Storage and Treatment Wetland Restoration</b>	PHOSPHORUS (EST. REDUCTION)	1470 LBS/YR	South Heron Lake	BWSR CALC (SHEET AND RILL)	
<b>CPS Code 638 Water and Sediment Control Basin</b>	SEDIMENT (TSS)	392 TONS/YR	South Heron Lake	BWSR CALC (SHEET AND RILL)	
<b>Storage and Treatment Wetland Restoration</b>	SEDIMENT (TSS)	1392 TONS/YR	South Heron Lake	BWSR CALC (SHEET AND RILL)	

## Grant Activity

Grant Activity - Administration	
Description	<p>Time will be 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 \$65.33 per hour.</p> <p>Cost-share contracts will be implemented as outlined in the BWSR GAM and approved by the Board of Managers of the HLWD.</p>
Category	ADMINISTRATION/COORDINATION
Has Rates and Hours?	No

**Grant Activity - CPS Code 638 Water and Sediment Control Basin**

**Description**

This activity will pay for costs associated with construction of eleven WASCObS in the JD3 system of the South Heron Lake Watershed. The WASCObS will be designed to the NRCS CPS Code 638 practice standard.

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.

Implementation of the WASCObS will coincide with the drainage improvement project for JD 3: Preliminary Engineering Report approval, 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.

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.

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, ISG, and BWSR (if they would like) 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.

**Category**

CONSERVATION DRAINAGE

**Has Rates and Hours?**

No

## Grant Activity - Flowage Easement

### Description

This activity will include costs associated with securing the flowage easement for the 10-acre wetland. The BWSR easement template will be used for the flowage easement. This easement will be protected in perpetuity.

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.

The perpetual flowage easement will be secured and held by the HLWD. The easement will be reviewed and approved by BWSR prior to wetland construction. Operation and maintenance will be the responsibility of the HLWD. Costs associated with the easement will be funded through landowner match.

### Category

EASEMENTS

### Has Rates and Hours?

No

## Grant Activity - Storage and Treatment Wetland Restoration

### Description

This activity will fund the creation of a 10-acre storage and treatment wetland, designed to the NRCS standard for a constructed wetland for treatment of agricultural storm water runoff. If tile is upgraded upstream of the practice, the practice design will be done to lower or closely match flows for the 2-year, 5-year, 10-year, and 25-year 24 hour rainfall events.

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.

The wetland restoration costs will be funded through grant dollars and landowner match.

Implementation of the wetland restoration will coincide with the drainage improvement project for JD 3: Preliminary Engineering Report approval, 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.

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.

A perpetual flowage easement will be secured and held by the HLWD. Operation and maintenance will be the responsibility of the HLWD. Costs associated with the easement will be funded through landowner match.

### Category

WETLAND RESTORATION/CREATION

### Has Rates and Hours?

No

## Grant Attachments

Document Name	Document Type	Description
2019 Competitive Grant	Grant Agreement	2019 Competitive Grant - Heron Lake WD

Document Name	Document Type	Description
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 08/30/2018
<b>Application Budget Worksheet</b>	Grant	South Heron Lake TMDL Implementation: Phase 2
<b>Project Area Map</b>	Grant	South Heron Lake TMDL Implementation: Phase 2