



# Grant All-Detail Report

## Water Quality and Storage Pilot Program 2022

**Grant Title** - Custer 7 & Sodus 32 Storage Projects - Lyon County, MN

**Grant ID** - C22-7759

**Organization** - Lyon SWCD

Original Awarded Amount	\$340,940.81	Grant Execution Date	8/3/2022
Required Match Amount	\$85,235.20	Original Grant End Date	12/31/2024
Required Match %	25%	Grant Day To Day Contact	John Biren
Current Awarded Amount	\$340,940.81	Current End Date	12/31/2024

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$340,940.81	\$19,104.00	\$321,836.81
Total Match Amount	\$89,350.00	\$0.00	\$89,350.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$430,290.81</b>	<b>\$19,104.00</b>	<b>\$411,186.81</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
Admin	Administration /Coordination	Local Fund	In-kind contribution	\$10,000.00			Y
Easements	Easements	Current State Grant	Custer 7 & Sodus 32 Storage Projects - Lyon County, MN	\$101,990.81			N
Easements	Easements	Landowner Fund	Landowner Donation	\$66,300.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Engineering	Technical/Engineering Assistance	Current State Grant	Custer 7 & Sodus 32 Storage Projects - Lyon County, MN	\$53,960.00	\$19,104.00	12/2/2022	N
Storage Project	Agricultural Practices	Current State Grant	Custer 7 & Sodus 32 Storage Projects - Lyon County, MN	\$184,990.00			N
Storage Project	Agricultural Practices	Local Fund	Lyon County	\$13,050.00			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 Project	PHOSPHORUS (EST. REDUCTION)	172.46 LBS/YR	070200080102	BWSR CALC (GULLY STABILIZATION)	Void-area method used to estimate reduction
Storage Project	SOIL (EST. SAVINGS)	492.75 TONS/YR	070200080102	BWSR CALC (GULLY STABILIZATION)	Void-area method used to estimate reduction
Storage Project	SEDIMENT (TSS)	172.46 TONS/YR	070200080102	BWSR CALC (GULLY STABILIZATION)	Void-area method used to estimate reduction

### Final Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

Grant Activity - Admin	
Description	Administration of the grant by SWCD staff and Highway Department staff to implement storage projects. Staff workload will include permitting, wetland impact review, easement development and review, and landowner coordination efforts.
Category	ADMINISTRATION/COORDINATION
Start Date	End Date
Has Rates and Hours?	No
Actual Results	

Grant Activity - Easements	
Description	Portion of maximum easement payments based on 2018 RIM rates for crop and non-cropland. 18.17 acres of non-cropland and 5.06 acres of cropland will be eligible for easement payments. Easement will be perpetual and recorded on the property deed. The Sodus 32 flowage easements will be held by Lyon County and the Custer 7 flowage easements will be held by Lyon County Drainage Authority (County Ditch No. 14). Lands donated within the project footprint will be applied as match. Easement drafting, recording and title review expenses incurred by landowners and the SWCD will be expensed to the grant.
Category	EASEMENTS
Start Date	End Date
Has Rates and Hours?	No
Actual Results	

Grant Activity - Engineering		
Description	Bolton & Menk Inc. design the storage projects and provide construction oversight, inspection and construction certification of each project. Specifically, Shaun Luker, P.E. License No. 48756 and Duane Hansel, P.E. License No. 14972 will be the project engineers through Bolton & Menk Inc. Lyon County Highway Engineer Aaron VanMoer, P.E. License No. 50428 will provide construction oversight and inspection of the 230th Ave road raise and road embankment protection.	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results		

Grant Activity - Storage Project		
Description	Storage to be achieved through three grade stabilization structures, including: Sodus 32 embankment, Custer 7 embankment, and 230th Ave road raise and armoring. All structures will meet NRCS standards and specifications for grade stabilization structure. The Lyon County Highway Department will contribute 510 tons of aggregate surfacing for 230th Ave, blading/leveling and traffic control as match for the project. Landowner's and/or land operators will be responsible for all storage component operation and maintenance requirements. The SWCD will conduct site spot checks to ensure storage components are functioning as designed.	
Category	AGRICULTURAL PRACTICES	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results		

### Grant Attachments

Document Name	Document Type	Description
2023 Water Quality and Storage Pilot	Grant Agreement	2023 Water Quality and Storage Pilot - Lyon SWCD
2023 Water Quality and Storage Pilot EXECUTED	Grant Agreement	2023 Water Quality and Storage Pilot - Lyon SWCD
Application	Workflow Generated	Workflow Generated - Application - 04/04/2022
Feasibility Study	Grant	Custer 7 & Sodus 32 Storage Projects - Lyon County, MN

Document Name	Document Type	Description
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 07/19/2022
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 06/23/2022
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 07/08/2022