



Grant All-Detail Report Projects and Practices 2019

Grant Title - Upper Chippewa River Watershed Groundwater Protection

Grant ID - C19-2759

Organization - Douglas SWCD

Original Awarded Amount	\$356,960.00	Grant Execution Date	3/13/2019
Required Match Amount	\$89,240.00	Original Grant End Date	12/31/2021
Required Match %	25%	Grant Day To Day Contact	Jerome Haggemiller
Current Awarded Amount	\$356,960.00	Current End Date	12/31/2022

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$356,960.00	\$317,602.85	\$39,357.15
Total Match Amount	\$524,240.00	\$711,846.89	\$-187,606.89
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$881,200.00	\$1,029,449.74	\$-148,249.74

*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
Adminstration / Coordination	Administration /Coordination	Current State Grant	Upper Chippewa River Watershed Groundwater Protection	\$13,400.00	\$1,689.58	12/31/2021	N
Adminstration / Coordination	Administration /Coordination	Local Fund	Local Match	\$3,350.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Manure Storage BMPs	Livestock Waste Management	Current State Grant	Upper Chippewa River Watershed Groundwater Protection	\$300,000.00	\$292,108.31	12/27/2021	N
Manure Storage BMPs	Livestock Waste Management	Federal Funds	Federal EQIP Funds	\$435,000.00	\$431,185.53	12/27/2021	Y
Manure Storage BMPs	Livestock Waste Management	Local Fund	Landowner Match	\$75,000.00	\$279,014.36	12/27/2021	Y
Project Development	Project Development	Current State Grant	Upper Chippewa River Watershed Groundwater Protection	\$13,400.00	\$3,329.75	12/31/2021	N
Project Development	Project Development	Local Fund	Local Match	\$3,350.00	\$1,647.00	12/31/2019	Y
Technical Assistance and Engineering / Design	Technical/Engineering Assistance	Current State Grant	Upper Chippewa River Watershed Groundwater Protection	\$30,160.00	\$20,475.21	12/28/2021	N
Technical Assistance and Engineering / Design	Technical/Engineering Assistance	Local Fund	Local Match	\$7,540.00			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
360 - Closure of Waste Impoundments	5	5	1 COUNT	1 COUNT
360 - Closure of Waste Impoundments	2	2	1 COUNT	COUNT
313 - Waste Storage Facility	2	2	1 COUNT	1 COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Manure Storage BMPs	PHOSPHORUS FEEDLOT (EST. REDUCTION)	121.6 LBS/YR	Chippewa River	MINNFARM	Average of 3 MinnFARM runs multiplied by number of projects anticipated.
Manure Storage BMPs	BOD 5	1668.3 LBS/YR	Chippewa River	MINNFARM	Average of 3 MinnFARM runs multiplied by number of projects anticipated.
Manure Storage BMPs	NITROGEN	421.6 LBS/YR	Chippewa River	MINNFARM	Average of 3 MinnFARM runs multiplied by number of projects anticipated.

Final Indicators Summary

Indicator Name	Total Value	Unit
PREVENTION	4.00	COUNT
NITROGEN	261.00	LBS/YR
FECAL COLIFORM	3,050,000,000,000,000.00	CFU/YR
COD	4,702.00	LBS/YR
PHOSPHORUS (EST. REDUCTION)	5,947.00	LBS/YR
BOD 5	1,045.00	LBS/YR
PHOSPHORUS FEEDLOT (EST. REDUCTION)	89.00	LBS/YR

Grant Activity

Grant Activity - Administration / Coordination	
Description	Projects will be tracked to completion, payments processed, reporting accomplished, and post construction site inspections completed. Primarily Douglas SWCD Coordinator and Water Plan Technician will be responsible for these activities. The Douglas County Feedlot Coordinator will assist in the above duties also.
Category	ADMINISTRATION/COORDINATION
Start Date	End Date
Has Rates and Hours?	Yes
Actual Results	<p>2019 cost share contract administration, coordination on inspections of ag waste system closures by Douglas County feedlot technician.</p> <p>2020 Grant management No funds spent in 2020.</p> <p>2021 Cost share contract administration, coordination on inspections of ag waste closures with Douglas Co. Feedlot Officer. Coordination of WCTSA on designs and construction inspection.</p>

Grant Activity - Manure Storage BMPs

Description	Materials and construction for: closure of 3 liquid manure storage areas; 4 ag waste projects addressing manure storage, open lot runoff, and clean water diversion. The design of the Ag Waste projects and pit closures will follow NRCS Tech Guide Standards. Cost share rate will be set by the Douglas SWCD board and will not exceed 75% of the total cost. Priority will be given to landowners who were identified as needing technical and cost share assistance from previous clean water grant regarding pit borings and or ready for construction.		
Category	LIVESTOCK WASTE MANAGEMENT		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>2019 two ag waste pond have been closed and 3 additional landowners have signed up for cost share for closing their ag waste storage pond. These ag waste closures are a result of soil boring completed on the storage ponds though CWF grant on soils investigations.</p> <p>2020 4 pit closures cost shared and 1 feedlot fix completed in 2020. Funds encumbered for 3 additional feedlot fixes to be completed in 2021.</p> <p>2021 Two feedlot fixes and two pit closures completed in 2021. Remaining funds will be spent on one pit closure in 2022.</p>		

Activity Action - Suchy pit Closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste Pit		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	COUNT	Installed Date	12-Nov-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Suchy pit Closure			
Indicator Name	PREVENTION	Value	1
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Activity Action - Thoennes pit closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste System		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	COUNT	Installed Date	12-Nov-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Thoennes pit closure			
Indicator Name	PREVENTION	Value	1
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Activity Action - Gappa Pit Closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste Pit		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	1.00 COUNT	Installed Date	13-Jan-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other

Final Indicator for Gappa Pit Closure			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1800
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Chippewa River		

Activity Action - Mike Koep Pit Closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste Pit		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	1.00 COUNT	Installed Date	13-Oct-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	SWCD

Final Indicator for Mike Koep Pit Closure			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2172
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Chippewa River		

Activity Action - Kraemer Pit Closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste Pit		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	1.00 COUNT	Installed Date	14-Dec-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other

Final Indicator for Kraemer Pit Closure			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1975
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Chippewa River		

Activity Action - Boesl feedlot fix			
Practice	313 - Waste Storage Facility	Count of Activities	1
Description	Closure of non compliant pit and construction of new ag waste storage system.		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	7-May-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	TSA

Final Indicator for Boesl feedlot fix

Indicator Name	BOD 5	Value	359
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Boesl feedlot fix

Indicator Name	COD	Value	1617
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Boesl feedlot fix

Indicator Name	PHOSPHORUS FEEDLOT (EST. REDUCTION)	Value	31
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Boesl feedlot fix

Indicator Name	NITROGEN	Value	90
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Boesl feedlot fix

Indicator Name	FECAL COLIFORM	Value	1.5E14
Indicator Subcategory/Units	MinnFARM CFU/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Activity Action - Wagner Pit Closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste pit		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	1.00 COUNT	Installed Date	9-Jul-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other

Final Indicator for Wagner Pit Closure			
Indicator Name	PREVENTION	Value	1
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Activity Action - Paul Debilzen Ag. Waste Pit Closure			
Practice	360 - Closure of Waste Impoundments	Count of Activities	1
Description	Closure of Ag Waste System		
Proposed Size / Units	1.00 COUNT	Lifespan	In Perpetuity
Actual Size/Units	1.00 COUNT	Installed Date	8-Dec-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other

Final Indicator for Paul Debilzen Ag. Waste Pit Closure			
Indicator Name	PREVENTION	Value	1
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Activity Action - Patrick Thoennes feedlot fix			
Practice	313 - Waste Storage Facility	Count of Activities	1
Description	Feedlot fix, upgrade of existing pit and run off control structures.		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	16-Dec-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	TSA

Final Indicator for Patrick Thoennes feedlot fix

Indicator Name	COD	Value	3085
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Patrick Thoennes feedlot fix

Indicator Name	BOD 5	Value	686
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Patrick Thoennes feedlot fix

Indicator Name	FECAL COLIFORM	Value	2.9E+15
Indicator Subcategory/Units	MinnFARM CFU/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Patrick Thoennes feedlot fix

Indicator Name	PHOSPHORUS FEEDLOT (EST. REDUCTION)	Value	58
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Final Indicator for Patrick Thoennes feedlot fix

Indicator Name	NITROGEN	Value	171
Indicator Subcategory/Units	MinnFARM LBS/YR	Calculation Tool	MINNFARM
Waterbody	Chippewa River		

Grant Activity - Project Development	
Description	Coordination with landowners, engineers, and consultants to development plans for construction of Ag waste systems. Site visits will be done by Douglas County Feedlot Coordinator on sites where soil boring were completed. Also other sites who fall within the grant area will be visited who need assistance in upgrading feedlots.
Category	PROJECT DEVELOPMENT
Start Date	End Date
Has Rates and Hours?	Yes
Actual Results	<p>2019 meeting with landowners on follow up of soil boring completed with Soils investigation CWF grant. Working with WCTSA on landowner contacts for survey and design. Working with Douglas County Feedlot Technician on lining up site visits for proposed projects.</p> <p>2020 Project Development No funds spent in 2020</p> <p>2021 Working with landowners, Douglas Co. Feedlot Officer, and WCTSA on project development of feedlot fixes and pit closure.</p>

Grant Activity - Technical Assistance and Engineering / Design

Description	Technical assistance in the form of site visits/evaluations, landowner meetings, outreach, and project organization. Engineering and design services provided by West Central Technical Service Area or other private engineers. The Douglas County Feedlot Coordinator will complete the site visits and will coordinate survey and design of ag waste systems, construction inspection with WTSA and private engineers. Douglas SWCD Coordinator and Water Plan Technician will also assist the Feedlot Coordinator. All project will be designed following the NRCS practice and standards of the Tech Guide.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>2019 work include WCSTA work on survey and design for 3 different feedlot projects. Projects are in design stage and will be constructed in 2020.</p> <p>2020</p> <p>Design continued in 2020. Construction was completed on one feedlot fix using EQIP funds, Two other projects were started in 2020 and will be completed in 2021. WCTSA will continue to design and inspect construction in 2021.</p> <p>2021</p> <p>Design and construction inspection by WSTSA on 2 Ag Waste fixes and two pit closures.</p>		

Grant Attachments

Document Name	Document Type	Description
2019 Competitive Grant	Grant Agreement	2019 Competitive Grant - Douglas SWCD
2019 Competitive Grant EXECUTED	Grant Agreement	2019 Competitive Grant - Douglas SWCD
2019 Competitive Grant amendment EXECUTED	Grant Agreement Amendment	
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/23/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/21/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/06/2020
Application	Workflow Generated	Workflow Generated - Application - 08/31/2018

Document Name	Document Type	Description
C19-2759 FY19 P&P Grant AMENDMENT - Douglas SWCD	Grant Agreement Amendment	
FY19 Upper Chippewa Groundwater Protection Financial Report	Grant	Upper Chippewa River Watershed Groundwater Protection
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/19/2018