

Grant All-Detail Report Projects and Practices 2015

Grant Title - 2015 - Dry Creek Watershed Gully Stabilization Project

Grant ID - C15-8972

Organization - Chisago SWCD

Original Awarded Amount	\$150,000.00	Grant Execution Date	4/7/2015
Required Match Amount	\$37,500.00	Original Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	Craig Mell
Current Awarded Amount	\$150,000.00	Current End Date	12/31/2018

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$150,000.00	\$150,000.00	\$0.00
Total Match Amount	\$56,037.96	\$65,382.60	\$-9,344.64
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$206,037.96	\$215,382.60	\$-9,344.64

^{*}Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

						Last	
	Activity					Transaction	Matching
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Administration	Administration	Current	Dry Creek Watershed Gully	\$2,500.00	\$2,500.00	11/20/2018	N
	/Coordination	State Grant	Stabilization Project				
Peterson/Reed Ave Gully	Agricultural	Current	2015 - Dry Creek Watershed	\$104,000.00	\$109,109.1	11/20/2018	N
	Practices	State Grant	Gully Stabilization Project		6		
Peterson/Reed Ave Gully	Agricultural	Federal		\$18,537.96	\$18,537.96	6/7/2017	Υ
	Practices	Funds					

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	Activity					Last Transaction	Matching
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Peterson/Reed Ave Gully	Agricultural Practices	Local Fund	Chisago County	\$26,000.00	\$43,744.64	11/20/2018	Υ
Project Development	Project Development	Current State Grant	Dry Creek Watershed Gully Stabilization Project	\$1,500.00	\$1,500.00	3/3/2016	N
Sundeen Gully	Agricultural Practices	Current State Grant	2015 - Dry Creek Watershed Gully Stabilization Project	\$12,000.00	\$7,150.00	6/16/2015	N
Sundeen Gully	Agricultural Practices	Local Fund	Amador Township	\$4,000.00	\$3,100.00	6/16/2015	Υ
Technical/Engineering	Technical/Engi neering Assistance	Current State Grant	Dry Creek Watershed Gully Stabilization Project	\$30,000.00	\$29,740.84	11/20/2018	N
Technical/Engineering	Technical/Engi neering Assistance	Local Fund	Chisago County	\$7,500.00			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
412 - Grassed Waterway and Swales	1	1	700 LINEAR FEET	700 LINEAR FEET
638 - Water and Sediment Control	4	4	1384 LINEAR FEET	1412 LINEAR FEET
Basin				
468 - Lined Waterway or Outlet	1	1	116 LINEAR FEET	148 LINEAR FEET
468 - Lined Waterway or Outlet	1	1	500 LINEAR FEET	510 LINEAR FEET
393 - Filter Strip	2	2	1000 LINEAR FEET	1015 LINEAR FEET
362 - Diversion	2	2	955 LINEAR FEET	1015 LINEAR FEET

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Construction	PHOSPHORUS (EST.	22 LBS/YR	St. Croix River	BWSR CALC (GULLY	

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Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
	REDUCTION)			STABILIZATION)	
Construction	SEDIMENT (TSS)	25 TONS/YR	St. Croix River	BWSR CALC (GULLY	
				STABILIZATION)	

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	90.31	TONS/YR
SOIL (EST. SAVINGS)	85.03	TONS/YR
PHOSPHORUS (EST. REDUCTION)	98.20	LBS/YR

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Grant Activity

Grant Activity - Administration						
Description	Elink reporting, grant execution, and similar administrative activities					
Category	ADMINISTRATION/COORDINATION					
Start Date	13-Apr-15	End Date	20-Nov-18			
Has Rates and Hours?	Yes					
Actual Results	As of May 19, 2015 Contract for Sundeen project completed. Elink	As of May 19, 2015 Contract for Sundeen project completed. Elink reporting is up to date.				
	As of January 19, 2016					
	The Sundeen project was completed and certif	fied. Repayment was issued. Elink report	ing is up to date.			
	As of January 9, 2017					
	SWCD staff has been in communication with C reconstruction portion of the project (not fund					
	As of June 13, 2017					
	The SWCD Board approved the cost share requ	uest on April 11, 2017, and approved reim	nbursement on June 13, 2017. Elink			
	reporting is up to date.					
	As of January 4, 2018					
	Reimbursement payment was issued for work	done on the field above Reed Avenue. El	ink reporting is up to date.			
	As of November 20, 2018					
	Final reimbursement for the Reed Avenue proj	ect was issued. All funds are spent in this	s category.			

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Grant Activity - Peterson/Reed	d Ave Gully				
Description	Three gullies have formed off the edge of an agricultural field and drain into the road ditch along Reed Avenue. The large volume of runoff is causing erosion within the road ditches and depositing large amounts of sediment in the Wild River State Park. A series of water and sediment control basins will be installed on the edge of the agricultural field to meter out the volume and velocity of the runoff. A private contractor will be hired to install these practices. Engineering and sign off on construction will be done by MM Engineering or NRCS staff. The goal for the WASCOBs is to slow the water down so that it no longer causes erosion within the gully channels. The pollution reduction goal for the WASCOBs is 10 lbs of phosphorus and 13 tons of sediment per year. The project lifespan for agricultural BMPs is 10 years.				
	In the road ditch along Reed Avenue, severe erosion is occurring due to stormwater runoff from the gullies as well as the road itself. Large sediment loads are being deposited on the road and in the neighboring Wild River State Park. Chisago County Public Works will secure all right-of-entry and required easements for work outside of their road right-of-way and for maintenance activities for the 25 year life span of the project. Chisago County Public Works will contract the work in the road ditch to be done at the same time as the road improvement project. Engineering staff for the Chisago County Public Works will sign off on the project. As part of the road project, Chisago County is installing curb and gutter to direct the runoff from the road into a stable water quality treatment basin. This portion of the project will have a 25 year lifespan. The goal is to stabilize the road ditch and stop erosion from occurring in the ditch itself. The pollution reduction goal is to reduce 6 lbs of phosphorus and 6 tons of sediment per year. A formal agreement will be developed with Chisago County Public Works before engineering begins.				
Category	AGRICULTURAL PRACTICES				
Start Date	11-Apr-17	End Date	25-Oct-18		
Has Rates and Hours?	No	·			
Actual Results	early work on a design has begun As of January 9, 2017 No construction has taken place in 2017, in coordination with the As of June 13, 2017	n. Further survey and design will be co . Surveying and design have been completed the complete Chisago County Public Works road recompleted the complete Chisago County Public Works road recompleted the control of t	Project development was completed in 2015 and inducted in 2016 with anticipated construction in 2017. pleted. Finalized designs will be ready for construction construction project. ersions, and vegetated filter strips. Construction was		

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completed and reviewed/approved by Marv Kunkel, NRCS Civil Engineering Technician. The certification of project completion was approved by the SWCD Board on June 13, 2017. The Chisago County Public Works has not started construction on their adjacent road project at this time (not funded through this grant).

As of January 4, 2018

The WASCOBS, diversions, and waterways were installed and certified by Marv Kunkel, NRCS Civil Engineering Technician. Reimbursement has been issued. The second part of this project along Reed Avenue is scheduled for installation in 2018.

As of November 20, 2018

Activity Action - Peterson/Reed Avenue

The second part of this activity was completed in the fall of 2018 in conjunction with the Chisago County Public Works road construction project on County Road 81/Reed Avenue. The Chisago SWCD paid for the water quality portions of the project that the County would NOT have done if they were just paving the road, up to the amount remaining for this project (\$65,000). An additional \$15,415.64 of water quality work was funded by the County as match, along with the County's installation of the concrete curb and gutter to guide the runoff into the water treatment areas (\$28,329). See attachment for additional Actual Results...

	Practice		638 - Water and Sediment Control	Count of	f Activities		4
			Basin				
	Description		Water and sediment control basin, be	erm betwe	een 4 and 6 ft tall, grassed.		
	Proposed Size	/ Units	1,384.00 LINEAR FEET	Lifespan			10 Years
	Actual Size/U	nits	1,412.00 LINEAR FEET	Installed	l Date		12-May-17
	Mapped Activ	ities	4 Point(s)				
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		SEDIMEN	T (TSS)		Value	3.42	
Indicator Subcateg	ory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWSR CALC (SHEET AND RILL)	
Waterbody		Dry Creek					
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		PHOSPHO	ORUS (EST. REDUCTION)		Value	3.76	
Indicator Subcateg	ory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)	
Waterbody		Dry Creek					
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name	ndicator Name SOIL (EST. SAVINGS)			Value	16.50		
Indicator Subcateg	ory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR			Calculation Tool	BWS	R CALC (SHEET AND RILL)
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Waterbody	Dry Creek				
Final Indicator for Peterson/Reed Avenue					
Indicator Name	SEDIMENT (TSS)	Value	5.15		
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)		
Waterbody	Dry Creek				
Final Indicator for Peterson/Reed	Avenue				
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	8.13		
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)		
Waterbody	Dry Creek				
Final Indicator for Peterson/Reed	Avenue				
Indicator Name	SOIL (EST. SAVINGS)	Value	24.8		
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)		
Waterbody	Dry Creek				

	Activity Action	ı - Peterson	/Reed Avenue					
	Practice		468 - Lined Waterway or Outlet	Count of Activities		1		
	Description		Lined waterway or outlet-rock lined <	Lined waterway or outlet-rock lined < or equal to 6"				
	Proposed Size / Units		116.00 LINEAR FEET	Lifespan		25 Years		
	Actual Size/Units		148.00 LINEAR FEET	Installed Date		12-May-17		
	Mapped Activities		1 Line(s)	Line(s)				
Final Indicator for I	Peterson/Reed	Avenue						
Indicator Name		PHOSPHO	PRUS (EST. REDUCTION)		Value	6		
Indicator Subcateg	ory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (GULLY STABILIZATION)	
Waterbody		Dry Creek						
Final Indicator for I	Peterson/Reed	Avenue						
Indicator Name SEDIMEN		SEDIMENT	IT (TSS)		Value	6		
Indicator Subcategory/Units WATER PO		OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWS	R CALC (GULLY STABILIZATION)		
Waterbody		Dry Creek						

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Activity Action - Peterson/Reed Avenue					
Practice	362 - Diversion	Count of Activities	2		
Description	Earthen diversion				
Proposed Size / Units	955.00 LINEAR FEET	Lifespan	10 Years		
Actual Size/Units	1,015.00 LINEAR FEET	Installed Date	12-May-17		
Mapped Activities	2 Line(s)				

	Practice		393 - Filter Strip	Count of Activities		2	
	Description		Filter strips across slope				
	Proposed Size / Units		1,000.00 LINEAR FEET	Lifespan			10 Years
	Actual Size/U	nits	1,015.00 LINEAR FEET	Installed	l Date		12-May-17
	Mapped Activ	ities	2 Polygon(s)				
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		SEDIMEN [*]	T (TSS)		Value	12.1	5
Indicator Subcateg	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	R CALC (FILTER STRIP)
Waterbody		Dry Creek					
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		SOIL (EST.	T. SAVINGS)		Value	5.86	
Indicator Subcates	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWS	R CALC (FILTER STRIP)
Waterbody		Dry Creek	k				
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		PHOSPHO	ORUS (EST. REDUCTION)		Value	16.7	4
Indicator Subcates	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (FILTER STRIP)
Waterbody		Dry Creek					
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	37.39	9
Indicator Subcates	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (FILTER STRIP)
Waterbody	Waterbody Dry Creek						
Final Indicator for	Peterson/Reed	Avenue					
Indicator Name		SEDIMEN [*]	T (TSS)		Value	37.4	1
Indicator Subcates	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	R CALC (FILTER STRIP)
Waterbody		Dry Creek					

Activity Action - Peterson/Reed Avenue

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Final Indicator for Peterson/Reed Avenue					
Indicator Name	SOIL (EST. SAVINGS)	Value	12.79		
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)		
Waterbody	Dry Creek				

	Activity Action - Peterson/Reed Avenue Smart Ditch						
	Practice		468 - Lined Waterway or Outlet	Count o	f Activities	1	
	Description		12" trapezoidal Smart Ditch ending in	a large ro	ock bowl that continues throu	igh 3 rock checks before entering	
			another large rock bowl, before enter	ring a culv	ert under the road.		
	Proposed Size	/ Units	500.00 LINEAR FEET	Lifespan		25 Years	
	Actual Size/U	nits	510.00 LINEAR FEET	Installed	l Date	28-Sep-18	
	Mapped Activ	ities	1 Line(s)	1 Line(s)			
Final Indicator for Peterson/Reed Avenue Smart Ditch							
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	5.78	
Indicator Subcate	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWSR CALC (GULLY STABILIZATION)	
Waterbody		Dry Creek					
Final Indicator for	Peterson/Reed	Avenue Sm	nart Ditch				
Indicator Name		SEDIMEN [®]	NT (TSS)		Value	5.78	
Indicator Subcate	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWSR CALC (GULLY STABILIZATION)	
Waterbody		Dry Creek	ek				
Final Indicator for Peterson/Reed Avenue Smart Ditch							
Indicator Name		SOIL (EST.	. SAVINGS)		Value	25.08	
Indicator Subcategory/Units WATER Po		POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		Dry Creek					

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Grant Activity - Project Development						
Description	These funds will be used to finish the remaining project development tasks, such as meeting with the landowners. Most of					
Category	PROJECT DEVELOPMENT	the project development has already been completed. PROJECT DEVELOPMENT				
Start Date	13-Apr-15	End Date	09-Jan-17			
Has Rates and Hours?	Yes					
Actual Results	As of May 19, 2015 Meeting held with Amador Township to discuss the gully project.					
	As of January 19, 2016 Project development was completed for the State the landowner of the Reed Avenue gully proje As of January 9, 2017 Project development activities have been com	ct. The landowner is interested in the pro	eject and is cooperating.			

Grant Activity - Sundeen Gully						
Description	A gully has formed adjacent Quinlan Avenue as a result of agricultural runoff. A grassed waterway, three earthen diversions, and a 25 foot field border will be installed. The goal of the project is to meter out the runoff from the agricultural field so that it no longer causes erosion within the existing gully channel. The pollution reduction goals are 6 lbs of phosphorus and 6 tons of sediment per year. Engineering and construction check out will be completed by MM Engineering. A private contractor will be hired to install the practices.					
Category	AGRICULTURAL PRACTICES	AGRICULTURAL PRACTICES				
Start Date	1-May-15	End Date	24-Jul-15			
Has Rates and Hours?	No					
Actual Results	A grassed waterway was installed in the road ditch area adjacent to the field edge where a large gully had formed. This project was complete. Remaining funds will be used for the Reed Avenue project as needed.					

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	Activity Action - Sundeen Gully						
	Practice		412 - Grassed Waterway and	Count o	f Activities		1
			Swales				
	Description						
	Proposed Size / Units		700.00 LINEAR FEET	Lifespan			10 Years
	Actual Size/Units		700.00 LINEAR FEET	Installed	Installed Date		24-Jul-15
	Mapped Activities		1 Polygon(s)				
Final Indicator for	Sundeen Gully						
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	20.4	
Indicator Subcateg	ory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (GULLY STABILIZATION)
Waterbody		St. Croix R	liver				
Final Indicator for	Sundeen Gully						
Indicator Name SEDIMEN		SEDIMENT	IT (TSS)		Value	20.4	
Indicator Subcateg	ory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	R CALC (GULLY STABILIZATION)
Waterbody		St. Croix R	liver				

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Description	These funds will be used for su	These funds will be used for surveying, plan development, and engineering to completed the designs for the gully					
	stabilization projects. Enginee	ring is completed on one of the projects.	On the second project, engineering for the road				
	portion of the project will be co	ompleted by the Chisago County Public \	Norks engineer Joe Triplett, P.E. or Kyle Ludgwig, P.E.,				
		st of the gully stabilization will be done b	y Michael Mayer, P.E. NRCS design standards will be				
	followed.						
Category	TECHNICAL/ENGINEERING ASS						
Start Date	6-Apr-15	End Date	20-Nov-18				
Has Rates and Hours?	Yes						
Actual Results	As of May 19, 2015						
	Design reviewed and approved	for Sundeen project.					
	As of January 19, 2016	whiti and it are the constant of the state of the constant of the state of the stat	an authorization of 2015. Mean has attented an an arrival				
	concept design for the Reed Av	·	en gully in July of 2015. Work has started on an early				
	concept design for the Reed At	rende guny project.					
	As of January 9, 2017						
		he Reed Avenue project. A draft design	is complete and under review for final changes.				
	Construction is expected to tak	Construction is expected to take place in 2017.					
	As of June 13, 2017						
		· · · · · · · · · · · · · · · · · · ·	ect. The County has surveyed their part of the project				
	but has not completed plans ye	et.					
	As of January 4, 2018						
		on plans for the road reconstruction por	tion of the project and expects to install the practices				
	in the summer of 2018.	op plans for the foad reconstruction por	tion of the project and expects to install the practices				
	As of November 20, 2018						
	All of the County's match was r	recorded in the Construction activity.					
	Project was certified by Kyle Lu	idwig, Assistant County Engineer (Licens	e #46021).				

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Grant Attachments

Document Name	Document Type	Description
03/31/2015 email work plan questions	Journal	Journal Dated - 04/01/2015
2015 Competitive Grant	Grant Agreement	2015 Competitive Grant - Chisago SWCD
2015 Competitive Grant executed	Grant Agreement	2015 Competitive Grant - Chisago SWCD
Agreement with County	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/30/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/02/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/09/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/05/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/20/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/13/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/08/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/04/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/30/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/30/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/03/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/30/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/04/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/27/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/20/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/03/2017
AmadorTwp_Documents	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
Application	Workflow Generated	Workflow Generated - Application - 09/22/2014
Dry Creek Watershed Gully Stabilization	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
EXAMPLE Cost Share Contract	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
Final Financial Report plus SmartDitch documents	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
Financial Report 50%	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
Peterson_Documents	Grant	2015 - Dry Creek Watershed Gully Stabilization Project
Sundeen_Documents	Grant	2015 - Dry Creek Watershed Gully Stabilization Project

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Document Name	Document Type	Description
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/28/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/27/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 04/01/2015
grantmap_12547_2014-09-15_02-35-31-PM.jpg	Grant	2015 - Dry Creek Watershed Gully Stabilization Project

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