



# Grant All-Detail Report

## Septic Treatment Systems Upgrade - NRBG 2020

**Grant Title** - 2020 - Septic Treatment Systems Upgrade - NRBG (Chisago County)

**Grant ID** - P20-7057

**Organization** - Chisago County

Original Awarded Amount	<b>\$40,000.00</b>	Grant Execution Date	<b>1/8/2020</b>
Required Match Amount	\$0.00	Original Grant End Date	12/31/2022
Required Match %	0%	Grant Day To Day Contact	Kurt Schneider
Current Awarded Amount	\$40,000.00	Current End Date	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$40,000.00	\$40,000.00	\$0.00
Total Match Amount	\$0.00	\$0.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$40,000.00</b>	<b>\$40,000.00</b>	<b>\$0.00</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
Admin	Administration /Coordination	Current State Grant	2020 - Septic Treatment Systems Upgrade - NRBG (Chisago Coun..	\$4,000.00	\$4,000.00	12/31/2020	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Subsurface Sewage Treatment systems	Subsurface Sewage Treatment Systems	Current State Grant	2020 - Septic Treatment Systems Upgrade - NRBG (Chisago Coun..	\$36,000.00	\$36,000.00	12/11/2020	N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
126M - Septic System Improvement	9	2	750 SQUARE FEET	750 SQUARE FEET
126M - Septic System Improvement	2	1	563 SQUARE FEET	563 SQUARE FEET
126M - Septic System Improvement	3	1	1250 SQUARE FEET	1250 SQUARE FEET
126M - Septic System Improvement	1	1	500 SQUARE FEET	500 SQUARE FEET
126M - Septic System Improvement	2	1	375 SQUARE FEET	375 SQUARE FEET
126M - Septic System Improvement	4	1	900 SQUARE FEET	900 SQUARE FEET
126M - Septic System Improvement	8		1 COUNT	1 COUNT
126M - Septic System Improvement	2	1	400 SQUARE FEET	400 SQUARE FEET

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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### Final Indicators Summary

Indicator Name	Total Value	Unit
<b>NITROGEN</b>	339.00	LBS/YR
<b>SEDIMENT (TSS)</b>	0.49	TONS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	85.00	LBS/YR

<b>BOD 5</b>	2,255.00	LBS/YR
<b>Total Suspended Solids (TSS)</b>	811.00	Mg/L

## Grant Activity

Grant Activity - Admin			
<b>Description</b>	administer grant money		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>	1-Feb-20	<b>End Date</b>	31-Dec-20
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	Approved and processed 8 grant applications, tracked grant progress and filed state reports.		

Grant Activity - Subsurface Sewage Treatment systems			
<b>Description</b>	Replace and install new septic systems to replace imminent health threats and failing to protect ground water		
<b>Category</b>	SUBSURFACE SEWAGE TREATMENT SYSTEMS		
<b>Start Date</b>	1-Feb-20	<b>End Date</b>	31-Dec-20
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	8 septic system were installed. 7 mounds and 1 pressure bed installed. All 8 septic systems received new tanks.		

Activity Action - 02.00168.00			
<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	2 bedroom mound with new tanks.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	14-Feb-20
<b>Mapped Activities</b>	No	<b>Technical Assistance Provider</b>	Other

Final Indicator for 02.00168.00			
<b>Indicator Name</b>	NITROGEN	<b>Value</b>	19
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)

<b>Waterbody</b>	Green Lake		
<b>Final Indicator for 02.00168.00</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	6
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Green Lake		
<b>Final Indicator for 02.00168.00</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	0.0715
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Green lake		
<b>Final Indicator for 02.00168.00</b>			
<b>Indicator Name</b>	BOD 5	<b>Value</b>	259
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Green lake		

<b>Activity Action - 08.00268.00</b>			
<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	3 bedroom mound and new tank installation.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	9-Jun-20
<b>Mapped Activities</b>	No	<b>Technical Assistance Provider</b>	Other

<b>Final Indicator for 08.00268.00</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	.024
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Lawrence Creek		
<b>Final Indicator for 08.00268.00</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	4
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Lawrence Creek		

Final Indicator for 08.00268.00			
Indicator Name	NITROGEN	Value	20
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Lawrence creek		

Final Indicator for 08.00268.00			
Indicator Name	BOD 5	Value	86
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Lawrence creek		

Activity Action - 04.00585.00			
Practice	126M - Septic System Improvement	Count of Activities	1
Description	3 bedroom with a mound and new tanks installation.		
Proposed Size / Units	1.00 COUNT	Lifespan	30 Years
Actual Size/Units	1.00 COUNT	Installed Date	19-May-20
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for 04.00585.00			
Indicator Name	BOD 5	Value	86
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Trulson Lake		

Final Indicator for 04.00585.00			
Indicator Name	SEDIMENT (TSS)	Value	.024
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Trulson Lake		

Final Indicator for 04.00585.00			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Trulson Lake		

Final Indicator for 04.00585.00			
Indicator Name	NITROGEN	Value	20

<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Trulson lake		

<b>Activity Action - 06.01280.00</b>			
<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>	3 bedroom mound and new tanks installation.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	30 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	10-Jun-20
<b>Mapped Activities</b>	No	<b>Technical Assistance Provider</b>	Other

<b>Final Indicator for 06.01280.00</b>			
<b>Indicator Name</b>	BOD 5	<b>Value</b>	86
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Rush Lake		

<b>Final Indicator for 06.01280.00</b>			
<b>Indicator Name</b>	NITROGEN	<b>Value</b>	20
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Rush Lake		

<b>Final Indicator for 06.01280.00</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	.24
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Rush Lake		

<b>Final Indicator for 06.01280.00</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	4
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Rush Lake		

Activity Action - 11.01026.07			
Practice	126M - Septic System Improvement	Count of Activities	1
Description	2 bedroom pressure bed and new tanks installation.		
Proposed Size / Units	1.00 COUNT	Lifespan	30 Years
Actual Size/Units	1.00 COUNT	Installed Date	26-Jun-20
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for 11.01026.07

Indicator Name	SEDIMENT (TSS)	Value	.018
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Mud Lake		

Final Indicator for 11.01026.07

Indicator Name	BOD 5	Value	65
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Mud lake		

Final Indicator for 11.01026.07

Indicator Name	NITROGEN	Value	6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Mud lake		

Final Indicator for 11.01026.07

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Mud Lake		

Activity Action - 06.00536.00			
Practice	126M - Septic System Improvement	Count of Activities	1
Description	3 bedroom mound and new tanks installation.		
Proposed Size / Units	1.00 COUNT	Lifespan	30 Years
Actual Size/Units	1.00 COUNT	Installed Date	15-Jul-20
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for 06.00536.00

Indicator Name	SEDIMENT (TSS)	Value	.024
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Rush Lake		

Final Indicator for 06.00536.00

Indicator Name	BOD 5	Value	86
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Rush Lake		

Final Indicator for 06.00536.00

Indicator Name	NITROGEN	Value	20
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Rush lake		

Final Indicator for 06.00536.00

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Rush lake		



Activity Action - 02.00129.00			
Practice	126M - Septic System Improvement	Count of Activities	1
Description	4 bedroom mound and new tank installation.		
Proposed Size / Units	1.00 COUNT	Lifespan	30 Years
Actual Size/Units	1.00 COUNT	Installed Date	15-Dec-20
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for 02.00129.00

Indicator Name	SEDIMENT (TSS)	Value	.054
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lake		

Final Indicator for 02.00129.00

Indicator Name	NITROGEN	Value	25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lakes		

Final Indicator for 02.00129.00

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lakes		

Final Indicator for 02.00129.00

Indicator Name	BOD 5	Value	108
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lake		

Activity Action - 02.00583.00			
Practice	126M - Septic System Improvement	Count of Activities	1
Description	5 bedroom mound and new tanks installation.		
Proposed Size / Units	1.00 COUNT	Lifespan	30 Years
Actual Size/Units	1.00 COUNT	Installed Date	12-Nov-20
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for 02.00583.00			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lakes		

Final Indicator for 02.00583.00			
Indicator Name	NITROGEN	Value	30
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lakes		

Final Indicator for 02.00583.00			
Indicator Name	BOD 5	Value	130
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lakes		

Final Indicator for 02.00583.00			
Indicator Name	SEDIMENT (TSS)	Value	.036
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Chisago Lakes		

## Grant Attachments

Document Name	Document Type	Description
<b>2020/2021 Natural Resources Block Grant</b>	Grant Agreement	2020/2021 Natural Resources Block Grant - Chisago County
<b>2020/2021 Natural Resources Block Grant EXECUTED</b>	Grant Agreement	2020/2021 Natural Resources Block Grant - Chisago County
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/12/2021

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/01/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/01/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 05/05/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/03/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/29/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/19/2022
<b>Financial Report</b>	Grant	2020 - Septic Treatment Systems Upgrade - NRBG (Chisago County)
<b>Grant Agreement</b>	Grant	2020 - Septic Treatment Systems Upgrade - NRBG (Chisago County)