



Grant All-Detail Report

Watershed Based Implementation Funding Phase I 2020

Grant Title - Lake Superior North Watershed Based Funding

Grant ID - C20-9833

Organization - Lake County

Original Awarded Amount	\$330,508.00	Grant Execution Date	3/20/2020
Required Match Amount	\$33,050.80	Original Grant End Date	12/31/2022
Required Match %	10%	Grant Day To Day Contact	Christine McCarthy
Current Awarded Amount	\$330,508.00	Current End Date	12/31/2022

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$330,508.00	\$0.00	\$330,508.00
Total Match Amount	\$33,350.80	\$0.00	\$33,350.80
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$363,858.80	\$0.00	\$363,858.80

*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
Fiscal Agent & Grant Administration	Administration /Coordination	Current State Grant	Lake Superior North Watershed Based Funding	\$18,000.00	\$262.76		N
Groundwater Nutrient Load Reduction Initiative through SSTS Abatement	Subsurface Sewage Treatment Systems	Current State Grant	Lake Superior North Watershed Based Funding	\$160,000.00	\$3495.72		N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Lake County Groundwater Abatement through SSTS Database, Inspection, and Priority Upgrades	Subsurface Sewage Treatment Systems	Current State Grant	Lake Superior North Watershed Based Funding	\$152,508.00	\$8106.48		N
Match - Staff Time	Regulations/Ordinances/Enforcement	Local Fund	County	\$33,350.80			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
Groundwater Nutrient Load Reduction Initiative through SSTS Abatement	PHOSPHORUS (EST. REDUCTION)	204 LBS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est. Based on 60 systems
Lake County Groundwater Abatement through SSTS Database, Inspection, and Priority Upgrades	PHOSPHORUS (EST. REDUCTION)	102 LBS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est. based on 30 systems
Groundwater Nutrient Load Reduction Initiative through SSTS Abatement	BOD 5	7386 LBS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est based on 60 systems
Lake County Groundwater Abatement through SSTS Database, Inspection, and Priority Upgrades	BOD 5	3693 LBS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est. based on 30 systems
Groundwater Nutrient Load Reduction Initiative through SSTS Abatement	NUTRIENTS (NITRATE)	936 LBS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est. based on 60 systems
Lake County Groundwater	NUTRIENTS (NITRATE)	282 LBS/YR	Lake Superior	Septic System	Estimated based on 30 systems

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Abatement through SSTS Database, Inspection, and Priority Upgrades			Watershed	Improvement Estimator (SSIE)	
Groundwater Nutrient Load Reduction Initiative through SSTS Abatement	SEDIMENT (TSS)	2.04 TONS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est. based on 60 systems
Lake County Groundwater Abatement through SSTS Database, Inspection, and Priority Upgrades	SEDIMENT (TSS)	1 TONS/YR	Lake Superior Watershed	Septic System Improvement Estimator (SSIE)	Est., based on 30 systems

Final Indicators Summary

Indicator Name	Total Value	Unit
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Grant Activity

Grant Activity - Fiscal Agent & Grant Administration	
Description	Provide grant administration and coordination, including eLink reporting and fiscal administration/invoicing.
Category	ADMINISTRATION/COORDINATION
Start Date	March 20, 2020
End Date	
Has Rates and Hours?	No
Actual Results	Lake County has administered, managed and coordinated the grant.

Grant Activity - Groundwater Nutrient Load Reduction Initiative through SSTS Abatement - Cook County

Description	In continuation and to complete lingering outcomes of the Cook County Lake Shore Septic Compliance Program, a Clean Water Fund Grant, Cook County will work with contracted assistance in the effort of bringing a large number of known failing septic systems into compliance. This project will significantly reduce the amount of nutrients being released that is adversely impacting the water quality within the Lake Superior North Watershed. This will involve technical and financial assistance and adherence to ordinance provisions. Project deliverables will include average pollution reduction numbers using the SSTS Excel Estimator. This project address LSN1W1P priority implementation goals SSTS 1.3 (and additionally: SSTS 1.44).		
Category	SUBSURFACE SEWAGE TREATMENT SYSTEMS		
Start Date	March 20, 2020	End Date	
Has Rates and Hours?	No		
Actual Results	The Cook County Septic Compliance and preservation of ground water quality project got off to a slow start with COVID-19 making contact with people on their properties difficult and uncertain. Most of the limited effort was in screening and prioritizing of known septic failures for us to focus on. As such, our Environmental Health Officer worked to generate and confirm that list for us to prioritize moving into our next phase. The priority of cases elevates any of the imminent threats to public health, followed by the most egregious of system failures, considering also proximity to surface and ground water resources and any neighboring drinking water well system. The phases are proceeding in cases of twelve systems, with the first two phases already in process, so there are currently twenty-four systems that have had active contact with the intent of upgrading or otherwise bringing into compliance. We anticipate that once we have made our initial progress with the first two phases, we will begin to see a more accelerated processing of cases through 2021.		

Grant Activity - Lake County Groundwater Abatement through SSTS Database, Inspection, and Priority Upgrades - Lake County

Description	This project will address LSN1W1P Priority Implementation Goal SSTS 1.1 (additionally: SSTS 1.2 and Groundwater-Goal-1) by developing a data set of Lake County septic systems, reaching out and educating high priority landowners, conducting approximately 30 septic inspections, and upgrading approximately 20 systems and replacing 10. To complete this project, tax-assessed codes and septic systems will be mapped in ArcMap and compliance reviews targeted by riparian zones (100ft shoreland, 300ft rivers). Historical records (approximately 3500 systems) will also be reviewed. Inspections will be conducted by staff in Tier 1, then Tier 2, then Tier 3/remaining watershed areas. The County will utilize their current administrative process for enforcement if needed. Landowner assistance incentives will then be provided to landowners in a cost-share format to repair non-compliant systems, with priority to high status sites. This project addresses a recent 15-20% failure compliance rate in Lake County and will bring data in the watershed up-to-date for long-term water quality improvements. Many existing landowners have old septic systems that lack property maintenance or were designed inadequately to protect groundwater. With the greatest percent of Lake County residents living in the Lake Superior Watershed, this project will identify and target the greatest source of groundwater contamination in Lake County.	
Category	SUBSURFACE SEWAGE TREATMENT SYSTEMS	
Start Date	March 20,2020	End Date
Has Rates and Hours?	No	
Actual Results	12/30/2020 In the spring of 2020 Lake County staff scanned residential septic files in the Lake County portion of watershed from permit files starting in 1973 for shoreland properties and in 1978 for non-shoreland properties. In addition, a list of the parcels in the Lake County portion of the watershed were identified. A list of the parcels with septic files were cross-referenced from the Lake County Assessors list of parcels with septic systems. In November, commercial septic files within the Lake County portion of the watershed were scanned.	

Grant Activity - Match - Staff Time

Description	Planning and Zoning Staff in Lake and Cook Counties will provide in-kind match time to meet the objectives of the grant, including reviewing records of septic system compliance, conducting septic system inspections, and aiding in enforcement of septic system ordinances and regulations.	
Category	REGULATIONS/ORDINANCES/ENFORCEMENT	
Start Date	March 20, 2020	End Date
Has Rates and Hours?	No	
Actual Results	12/30/2020 No work has been done under this grant category to date.	

Grant Attachments

Document Name	Document Type	Description
2020 Watershed Based Implementation Funding	Grant Agreement	2020 Watershed Based Implementation Funding - Lake County
2020 Watershed Based Implementation Funding EXECUTED	Grant Agreement	2020 Watershed Based Implementation Funding - Lake County
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/10/2021
Application	Workflow Generated	Workflow Generated - Application - 01/22/2020
Cook SSTS Estimator	Grant	Lake Superior North Watershed Based Funding
LSN Milestones	Grant	Lake Superior North Watershed Based Funding
Lake SSTS Estimator	Grant	Lake Superior North Watershed Based Funding
WBIF update	Grant	Lake Superior North Watershed Based Funding
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/03/2020