

Redwood County/ RCRCA

Water of Concern
Minnesota River

Impairment
E. Coli/Phosphorus

CWL Funding by Category

Technical Assistance Funds

BWSR Technical Assistance Grant	\$8,100.00
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Implementation Funds

MDA AgBMP Loans for SSTS	\$type here
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BWSR SSTS Inventory Grant	\$type here
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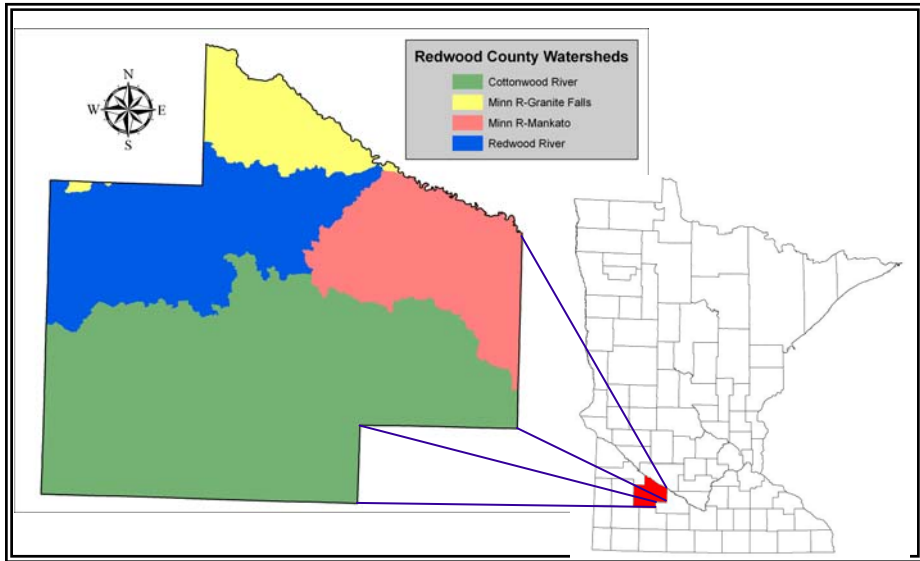
BWSR SSTS Low Income Fix Up Grant	\$79,343.42
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Leveraged Dollars	\$12,154.85
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Total CWL Funding	\$87,443.42
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PROJECT CONTACT
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Project Title: Redwood County Accelerated ITPHS and SSTS Compliance Project—8R41



Overall Project Description (abstract from work plan)

\$144,000.00 of the MPCA/BWSR ITPHS Grant, to help finance septic system upgrades of 20 (60 bedrooms) low income situations and provide technical assistance. Redwood County would cost share 75% of the cost of the system with grant dollars (on average approximately \$6,000.00 per system). We would use the current Federal Poverty guidelines to determine who would qualify and we would work with the local Human Services Department and Western Community Action located in Marshall, Minnesota to verify the household's qualifications and need. \$24,000 of the grant to facilitate the operation (inspection, check out, form development, correspondence, etc.) and outreach (one on one consultation, mailings to MPCA certified SSTS designers/installers, newspaper ads, Redwood County's website and RCRCA's website) of the project at a rate of \$30.00/hr; 30 hours per system.

This grant was set up to help finance septic system upgrades of 20 (60 bedrooms) low income situations and provide technical assistance which would result in up-to, .75 tons/yr total nitrate reduction, .41 tons/yr total phosphorus reduction, 2.74 tons/yr Biological Oxygen Demand (BOD) reduction and .89 tons/yr total suspended solids(TSS) from reaching surface water. The publicity of this grant will be through word of mouth, mailings to MPCA certified SSTS designers/installers, newspaper ads, Redwood County's website and RCRCA's website. An eligible ITPHS-SSTS is determined by the following criteria: must be an existing ITPHS-SSTS where the definition of an ITPH-SSTS will be based on the MN Rule Chapter 7080 in conjunction with the Redwood County SSTS Ordinance requirements and is deemed so by an MPCA certified compliance inspector and the applicant must be the property owner(s) listed on the deed / tax roles at the Redwood County Auditor's Office. Grant ineligibility criteria are as follows: refinancing of a previously installed SSTS, an SSTS for new construction (where no ITPHS-SSTS previously existed) or if the SSTS is currently under court order for replacement or repair. Property owners who wish to participate with this program must: show proof of total household gross income (pay stubs or income tax statements). Income eligibility will be based on the published (current year) Federal Poverty Guidelines (FPG). Gross income cannot exceed 290% of the FPG Income Standards. Grants will be awarded on a first in first out basis.

*Prepared by Board of Water and Soil Resources
Fiscal Year 2007-2009 Clean Water Legacy Project*

Subsurface Sewage Treatment System (SSTS) Inventory Data

Target Area	Total #of Parcels in Target Area	Total # of Parcels Inventoried	Total Failing SSTS Identified	Total ITPHS SSTS Identified	Total SSTS Fixed as a result of the inventory	Total Cost of Inventory
<i>Ex. Stormy Lake Watershed</i>	750	500	50	20	5	\$75,000

SSTS Low Income Imminent Health Threat Fix-Up Data

Location	Number of Landowners Contacted	Number of Systems Fixed	Total Grant Funds Expended	Funds Leveraged by Landowners
<i>Ex. Stormy County</i>	20	10	\$50,000	\$10,000
Redwood County	12	9	\$87,443.42	\$12,154.85

Contributing Partners (non-landowners)

Partner	Description	Project Contribution	Leveraged Funds
<i>EX. USDA Rural Development</i>	<i>Additional Federal grant funds were leveraged.</i>	<i>Cash</i>	<i>\$20,000</i>

Project Informational/Educational Activities

Type of Activity	Newsletters, Brochures, Posters, Etc.	Tour or Demos	Presentations Given	Presentations by guest speakers	Other
<i>EX. SSTS Outreach</i>	6	1	3	1	
Info/Promotion	1		1		1

Project Outcomes: Detail specific project outcomes that work towards meeting total maximum daily load study or local water plan and County SSTS program water quality.

Outcomes Narrative (200 words or less)

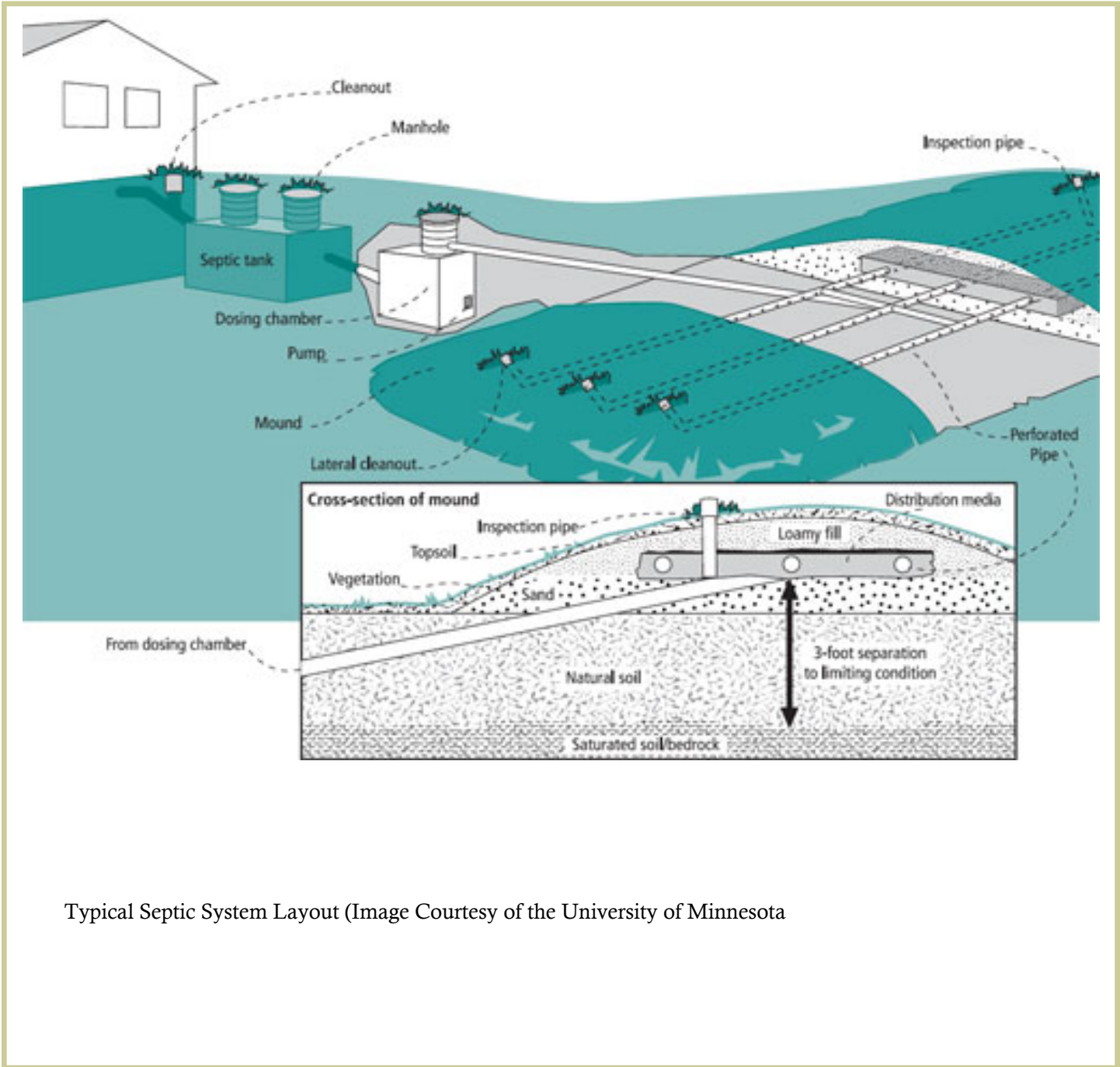
The Redwood County Accelerated SSTS Compliance Project has funded 9 septic systems in Redwood County which goes a little ways toward bringing county septic systems into compliance. The project also goes toward meeting the Lower Minnesota River Dissolved Oxygen TMDLs goals of 40% of ITPHS systems in compliance by 2010 as well as 90% of direct discharge septic systems being mitigated by 2015. Quantifiable results from this project include pollution reduction estimates of 1.867 Tons/yr of BOD, 0.52 Tons/yr of suspended solids, 1,066 lbs./yr of Nitrates, and 533.3 lbs./yr of phosphorus being introduced to the Minnesota River system through the Redwood River, Cottonwood River, and smaller Minnesota River tributaries of Redwood county. Calculations are based on assumptions of the designing factors:

1. Conservative loading estimates are based on a three-bedroom house.
2. 200 mg/L effluent biochemical oxygen demand (BOD) concentration
3. 450 gallons per day effluent output
4. 55 mg/L effluent nitrogen (N) concentration
5. 30 mg/L effluent total phosphorus (P) concentration
6. 65 mg/L effluent total suspended solids (TSS) concentration

Less quantifiable results included creating a method of disseminating grant funds throughout the county as well as awareness of where work may be needed to implement septic replacement programs in Redwood county.

Estimated number of SSTS to be upgraded in the county	Plan or Program Targets for SSTS to be Upgraded Each Year	Total Number of SSTS Fixes with this Project	% of Local Goals Met with this Project	Gallons of sewage reduced
<i>Ex. 1000</i>	<i>100</i>	<i>15</i>	<i>1.5%</i>	<i>30,000 gallons</i>
1800	-	9 (40 bed-rooms)	0.5%	2,190,000 gal/yr (est.)

Project Photos, Additional Maps, or Conservation Practice Designs



Typical Septic System Layout (Image Courtesy of the University of Minnesota)