

Future Wastewater Infrastructure Needs and Capital Costs

Fiscal Year 2016 Biennial Survey of Wastewater Collection and Treatment



Legislative charge

Minnesota Statutes §115.03, Subd. 9. Future costs of wastewater treatment; report.

The commissioner shall, by January 15, 1998, and each even-numbered year thereafter, provide the chairs of the house and senate committees with primary jurisdiction over the agency's budget with the following information: (1) an updated list of all wastewater treatment upgrade and construction projects the agency has identified to meet existing and proposed water quality standards and regulations; (2) an estimate of the total costs associated with the projects listed in clause (1), and the projects' priority ranking under Minnesota Rules, chapter 7077. The costs of projects necessary to meet existing standards must be identified separately from the costs of projects necessary to meet proposed standards; (3) the commissioner's best estimate, developed in consultation with the commissioner of employment and economic development and affected permittees, of the increase in sewer service rates to the residents in the municipalities required to construct the projects listed in clause (1) resulting from the cost of these projects; and (4) a list of existing and proposed state water quality standards which are more stringent than is necessary to comply with federal law, either because the standard has no applicable federal water quality criteria, or because the standard is more stringent than the applicable federal water quality criteria.

HIST: 1945 c 395 s 3; 1969 c 9 s 21; 1969 c 931 s 6; 1973 c 374 s 7-9; 1973 c 412 s 12; 1976 c 76 s 1; 1979 c 147 s 1; 1984 c 597 s 41; 1985 c 248 s 70; 1Sp1985 c 13 s 229; 1986 c 444; 1987 c 186 s 15; 1989 c 335 art 1 s 127; art 4 s 33; 1992 c 601 s 2; 1993 c 87 s 1; 1993 c 186 s 8; 1996 c 437 s 9,10; 1996 c 462 s 38; 1997 c 216 s 93; 2000 c 370 s 1; 1Sp2001 c 2 s 120; 2003 c 128 art 1 s 120,121; 1Sp2003 c 4 s 1

Minnesota Pollution Control Agency

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Cover photo courtesy Pine River Area Sanitary District

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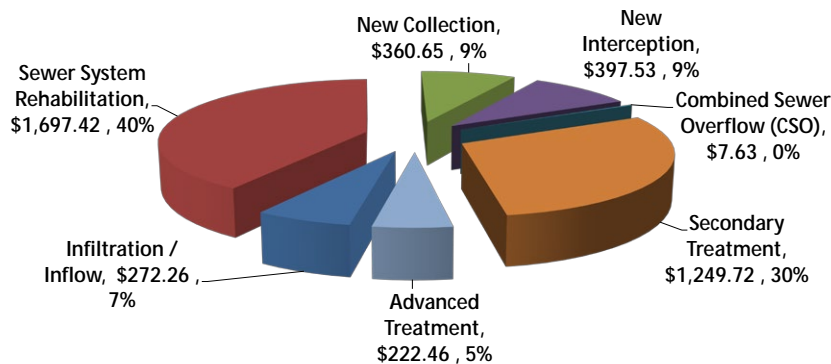
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Executive summary

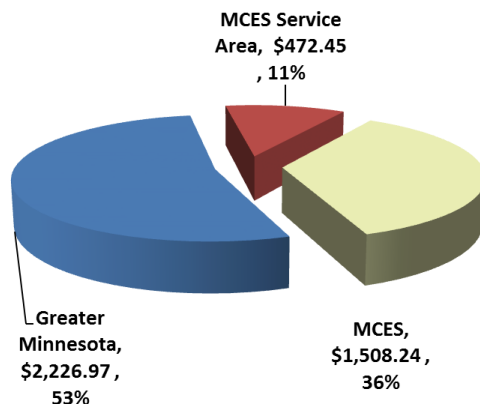
Statewide future infrastructure needs

Responding to the Minnesota Pollution Control Agency (MPCA) 2015 Wastewater Infrastructure Needs Survey (WINS) of future wastewater treatment and collection system needs, Minnesota's communities identified **over 1,350 wastewater infrastructure projects** at a cost of over **\$4.20 billion dollars**. These Projects are necessary to rehabilitate, expand, and improve wastewater collection sewer systems and treatment facilities and to extend sewer systems to newly developed or existing unsewered areas. The distribution of costs by type of project is as follows (costs are in millions of dollars):



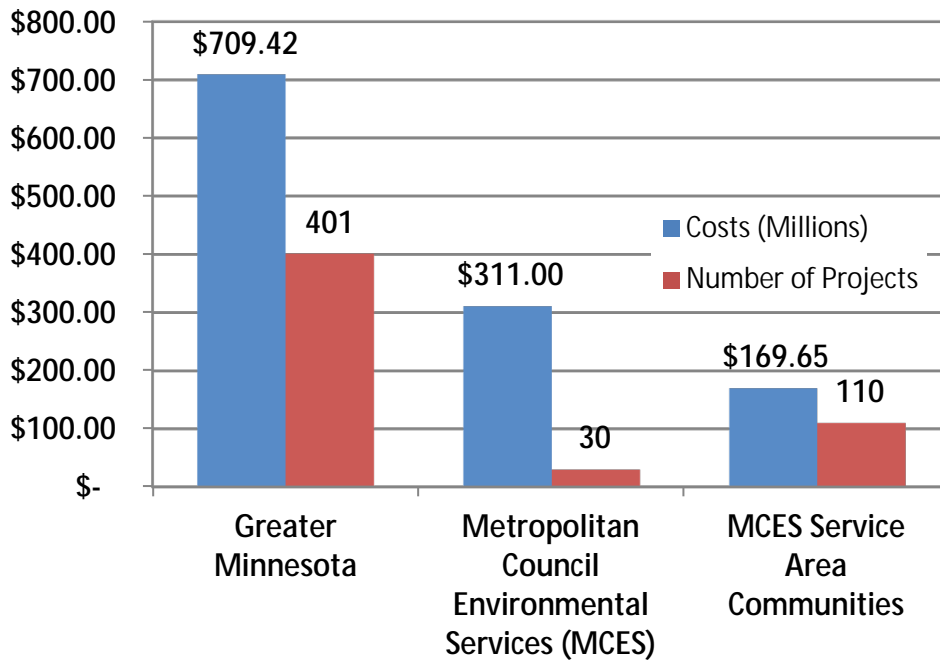
Greater Minnesota, Metropolitan Council Environmental Services, and MCES Service Area Communities needs

The distribution of need for Greater Minnesota as compared to the Metropolitan Council Environmental Services (MCES) and the approximately 112 communities served by MCES is as follows: (costs are in millions of dollars):



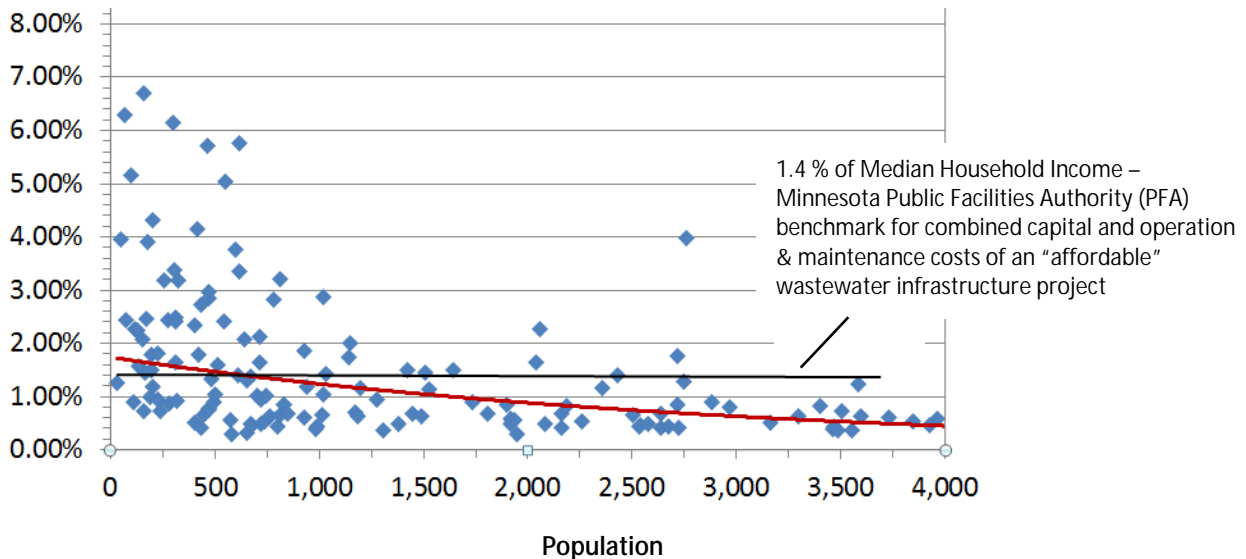
Completed wastewater infrastructure projects 2014-2015

During the two year period from January 1, 2014, through December 31, 2015, a total of 541 wastewater infrastructure projects were completed throughout Minnesota at a total cost of \$1,190.07 million. The distribution of costs and projects between Greater Minnesota, MCES, and MCES Service Area Communities are as indicated below (costs are in millions of dollars). Note that costs are overall project totals for projects completed during the time period indicated. Multi-year projects may have been initiated and costs incurred prior to January 1, 2014.):



Project affordability: effects of economies of scale

Communities with low populations frequently struggle with the affordability of wastewater infrastructure – they lack the economies of scale that help keep costs down in more populous cities. The Minnesota Public Facilities Authority (PFA) uses 1.4% of median household income as a wastewater costs affordability index for Minnesota communities. On the following linear regression the y axis is annual capital and operational costs as a percent of a community's Median Household Income. As indicated a community characteristically needs a population of approximately 750 to achieve an affordability index of 1.4%.



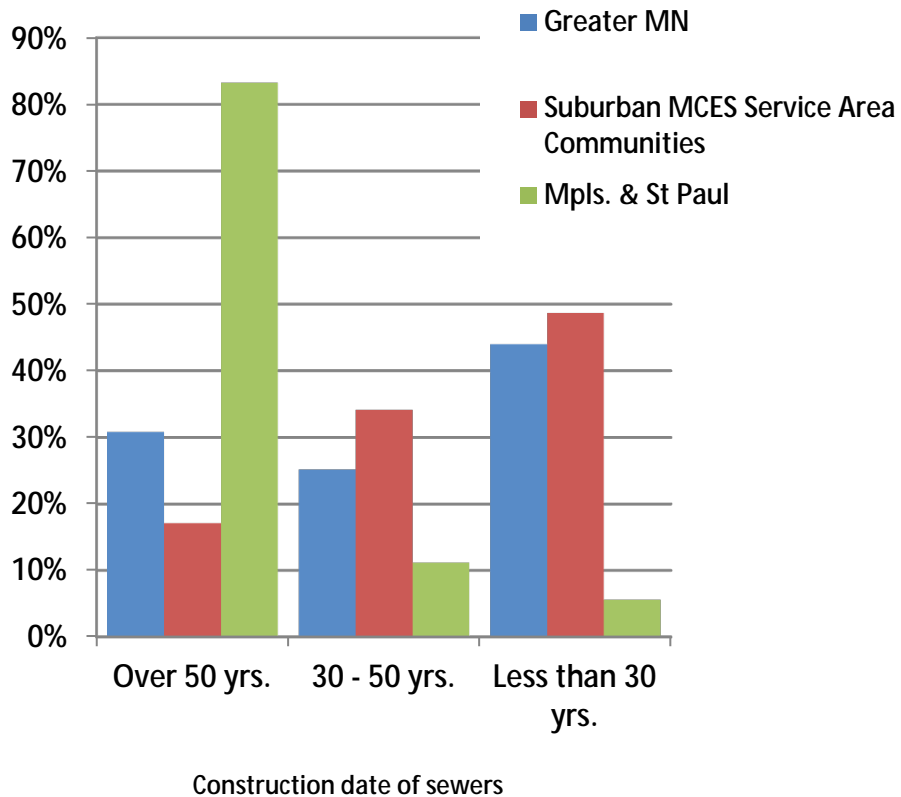
Age of collection sewers

Sewers installed over 50 years ago are frequently beyond their useful life in part because they were typically constructed of vitrified clay tiles that are not as durable and do not perform at current standards. The age and condition of Minnesota's collection sewer systems varies between communities but is primarily a contrast between: a) Minneapolis and St. Paul, b) Suburban MCES Service Area Communities, and, 3) Greater Minnesota.

As indicated below, Minneapolis and St. Paul have a high percentage (83%) of sewers constructed over 50 years ago. Accordingly both cities are engaged in long term capital improvement projects to rehabilitate their collection sewer systems. While recognizing the economies of scale of the communities involved, rehabilitating and replacing these aged sewers continues to be a significant capital investment for the central cities.

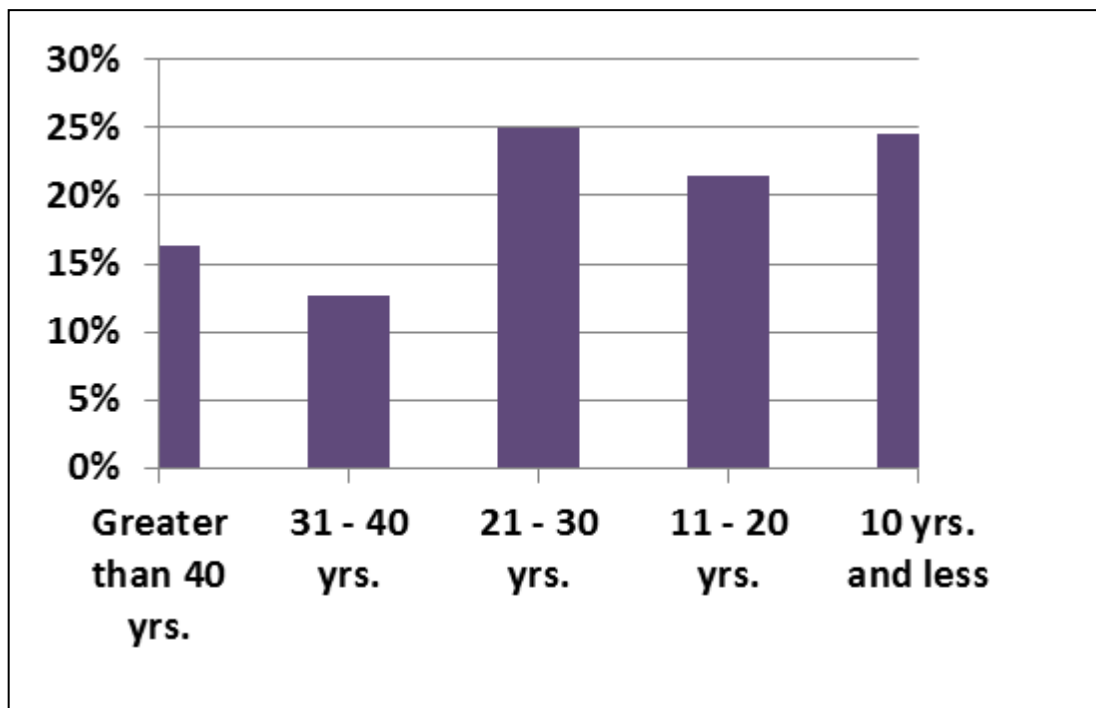
On average, suburban MCES Service Area Communities have a comparatively small percentage (17%) of sewers constructed over 50 years ago. However this average conceals substantial percentages of 50 years plus sewers in older communities located in the metro area, including: Richfield, St Louis Park, Excelsior, Falcon Heights, and Roseville. For information on specific communities, please see Appendix 6: Age of Infrastructure of Individual Communities.

In Greater Minnesota the age of collection sewer systems suggests that aged infrastructure is significant and extensive and represents an important challenge, particularly because many of the oldest sewers are located in the smallest communities. As indicated below, 31% of Greater Minnesota sewers were installed over 50 years ago and 25% of sewers in Greater Minnesota are 30 – 50 years old.



Age of treatment facilities

Major structural components of wastewater treatment facilities have an expected useful life of 40 years – dependent in part on operation and the diligence of maintenance. As these structures deteriorate, effectiveness declines leading to additional operating and maintenance, and a greater potential for permit violations and unintended discharges. As indicated below, at this point in time 16% of Greater Minnesota’s treatment facilities are over 40 years old. In 10 years, without reconstruction projects, the percentage would reach approximately 30%. This scenario would likely result in continuing significant increased infrastructure demands and costs.



Age of treatment facilities in Greater Minnesota (472 facilities surveyed)

In the Twin Cities local communities collect sewage from households, businesses, etc. and then route it to the appropriate MCES interceptors. MCES operates an extensive interceptor system conveying wastewater to its several treatment facilities for treatment and discharge. The overall scale and revenue base of the MCES system facilitates the MCES practice of managing improvements and rehabilitation through long term capital investment planning.

Introduction

The purpose and scope of this report

In keeping with Minn. Stat. § 115.03 subd.9 the Minnesota Pollution Control Agency (MPCA) has prepared this report on:

- Future infrastructure needs and capital costs of rehabilitating, improving and expanding publicly owned wastewater treatment and collection systems.
- Cost increases to residential users resulting from currently planned wastewater infrastructure projects.
- The affordability of wastewater infrastructure needs and residential costs.

Minnesota's publicly owned wastewater treatment systems are operated according to National Pollution Discharge Elimination System (NPDES) and State Disposal System (SDS) permits issued by the MPCA. The ownership and operation of publicly owned wastewater treatment and collection systems is the work of approximately 680 Minnesota cities and sanitary districts. Of the latter, Metropolitan Council Environmental Services (MCES) and Western Lake Superior Sanitary District are the most prominent in the extent of services provided.

This report does *not* address:

- Privately owned NPDES or SDS permitted wastewater treatment facilities (e.g., industrial and commercial dischargers that do not discharge to publicly owned wastewater treatment facilities).
- Privately owned Subsurface Sewage Treatment Systems (SSTS) which account for approximately 25% of the domestic wastewater discharged by Minnesota residences.
- Stormwater Collection Systems, Management and Treatment Practices. Based primarily on population, approximately 200 of Minnesota's municipalities are responsible for stormwater management according to the conditions of NPDES stormwater permits. Stormwater in communities not subject to stormwater permits is managed according to nonpoint source best management practices.
- Publicly owned wastewater treatment facilities with flows less than 10,000 gallons per day (approximately 30 households) and land based disposal. These facilities are not issued NPDES or SDS permits.
- Unsewered communities, which are typically very small rural communities without sewer collection and wastewater treatment systems.
- Under – sewerred communities; defined by the MPCA as communities with inadequate or deteriorated sewer systems and substandard or non-existent wastewater treatment with direct discharges. Again these are typically very small rural communities. (For a discussion of the wastewater needs of unsewered and under-sewerred Minnesota communities see: *Small Community Wastewater Needs in Minnesota* issued by the MPCA June, 2008 and available at: <https://www.pca.state.mn.us/sites/default/files/wq-wwtp1-06.pdf>

Basics of wastewater and wastewater treatment

Wastewater or sewage is generated and discharged by households, businesses and industries. A typical household generates approximately 160 - 250 gallons of wastewater per day. The majority of wastewater generated in Minnesota (approximately 75 %) is discharged to sanitary sewer collection systems and flows to municipally operated wastewater treatment facilities where it is treated and released. The remainder is discharged by households and businesses to SSTS and to privately operated, primarily industrial treatment facilities.

Wastewater is typically about 99% water and 1% organic matter, solids, nutrients, potentially disease-causing organisms and other pollutants. These materials are suspended and dissolved in the wastewater. Sewage treatment is a multi-stage process to reduce or eliminate pollutants and nutrients before the treated wastewater is discharged to a river, lake, stream or wetland, land applied or reused. The wastewater treatment process screens out debris and separates suspended solids and greases from the wastewater. One or more biological treatment processes are then used to remove dissolved organic matter from wastewater. Together this series of processes is defined as *secondary treatment*. Depending upon the need to address specific pollutants or to ameliorate particular conditions in receiving waters advanced treatment may also be required. *Advance treatment* typically focuses on a specific pollutant or nutrient such as phosphorous. Wastewater treatment processes range from the relatively simple (stabilization ponds) to very complex (activated sludge treatment facilities), but all require careful operation and management to ensure the protection of the water body that receives the discharge. In wastewater treatment plants, trained operators measure and monitor the incoming sewage, the treatment process and the final effluent which is discharged to the lakes and streams of Minnesota. These operators are licensed and certified by the MPCA.

Minnesota's waters are affected by pollutants from three primary sources: Point source pollution which includes discharges from wastewater treatment facilities; nonpoint pollution which includes stormwater and runoff from other land use activities such as agriculture and forestry, and; atmospheric deposition. Each receiving body of water has limits to the amount of pollutants it can receive without degradation. These limits are carefully identified and defined as the Total Maximum Daily Load (TMDL) of the receiving waters. Accordingly, each sewage treatment plant has a permit stipulating the allowable levels of pollutants in the treated discharge. The majority of Minnesota's wastewater treatment facilities operate according to United States Environmental Protection Agency (EPA), NPDES permits. These permits are issued by the MPCA according to a delegation agreement with the EPA. Treatment facilities that discharge to land using, for example, spray irrigation, receive SDS permits instead of NPDES permits.

SSTS systems do not receive NPDES or SDS discharge permits. Instead water quality and public health goals and standards are maintained through a program for registering and licensing those who install, inspect, and maintain SSTS systems and by local government permits and inspections of design, installation and operation. SSTS installation and maintenance contractors are registered and licensed by the MPCA and participate in ongoing training and education programs provided by the MPCA and the University of Minnesota Extension.

State water quality standards

Minnesota Stat. § 115.03, subd. 9(4) requires the listing of "...existing and proposed state water quality standards which are more stringent than is necessary to comply with federal law, either because the standard has no applicable federal water quality criteria, or because the standard is more stringent than the applicable federal water quality criteria." While the federal Clean Water Act (CWA) establishes the requirements to develop and implement standards and the procedures for doing so, the details of water quality protection are left up to the states. This recognizes the "place-based" nature of water quality protection – water bodies in different areas have different characteristics, support different uses and react differently to pollutants; therefore, different standards are needed to protect those diverse water bodies. Given this, there are effectively no separate state of Minnesota water quality standards proposed or in existence that exceed federal standards; Minnesota's standards are developed to protect the uses of Minnesota's waters in conformance with the federal CWA requirements.

In general, Minnesota's water quality standards are developed following one of two pathways. Often, the EPA develops national numeric water quality criteria, and the MPCA adopts water quality standards based on these national criteria by tailoring them to local conditions (such as using only data from freshwater species). Where federal criteria do not exist, states may still need to adopt numeric standards to meet the federal requirement of protecting designated uses.

For example, in Minnesota where wild rice is an important component of the aquatic life community of many waters and is a resource of cultural significance, the state has adopted a standard to protect wild rice from impacts due to excess sulfate. Such a numeric standard does not exist at the federal level, but it fulfills the federal requirement of protecting existing and designated uses. Similarly, Minnesota has adopted nutrient standards to protect lakes from nutrient enrichment, which affects recreational suitability and aquatic life. Minnesota's standards are based on Minnesota-specific conditions and considerations, since lakes in Minnesota are different than lakes in Iowa or South Dakota.

In adopting these standards, MPCA has not gone beyond federal regulations. Federal regulations require states to protect designated uses such as swimming and fishing; federal regulations also establish procedures for developing standards to achieve the required protections. The MPCA follows these procedures.

Types of infrastructure costs: capital costs, operation, and maintenance costs

While this report focuses on future capital costs, publicly owned and operated wastewater treatment and collection systems are subject to both capital costs and operation and maintenance costs. Capital costs are for constructing wastewater infrastructure, rehabilitations, improvements, and expansions. Operation and maintenance costs include personnel costs and the costs of chemicals, supplies, laboratory analysis, power, equipment repair, and replacement, etc.

Capital cost increases result from one or some combination of the following factors:

- Infrastructure rehabilitation and replacement
- Community growth and corresponding infrastructure expansion
- Development of systems to address wastewater collection and treatment in unsewered and under-sewered communities
- Treatment facility upgrades to meet new and/or more restrictive wastewater discharge standards (i.e., NPDES and SDS permit conditions and requirements or implementation of TMDLs)

Operation and maintenance cost increases are attributable to:

- Changes in operation and maintenance procedures resulting from capital changes
- Expansion of treatment facility systems and processes
- Collection system expansions
- Inflation
- Changes in operation and maintenance to achieve new and/or more restrictive discharge standards

Capital projects are identified in the report as follows:

- Sewer System Projects – Projects involving the rehabilitation, construction and/or expansion of existing sewer collection and interceptor sewer systems and projects to correct infiltration and inflow and/or combined sewer overflows. Infiltration and Inflow is stormwater and ground water that enters sanitary sewers through leaks or through the direct connection of, for example, roof downspouts. Combined Sewer Overflows (CSOs) are discharge points in a sewer system that are utilized to release untreated sewage to rivers, lakes and streams when wastewater flow in combination with stormwater runoff exceeds the capacity of wastewater treatment facilities. Sewer collection systems constructed prior to the 1950s typically combined the collection of sanitary wastes and stormwater. During storms when stormwater runoff is high, these combined systems generate flows that exceed the capacity of treatment facilities. The primary solution to this problem is to construct separate sanitary and storm sewer systems.
- Wastewater Treatment Projects – The construction, improvement, expansion of treatment facilities/works/plants for the secondary and advanced treatment of wastewater to meet water quality standards.

Data sources

The data in this report have been acquired from sources including:

The 2015 Wastewater Infrastructure Needs Survey (WINS)

The 2015 WINS survey was mailed to communities and sanitary districts in late April 2015 with completed surveys being received and data entered through mid-August. Communities are required to complete the WINS survey biennially as a part of their NPDES and SDS permit conditions. This information is acquired so that the State can identify future wastewater infrastructure needs over the next 20 years. The needs of specific communities as reported in the 2015 WINS survey are provided in Appendices 1 and 2.

The State Fiscal Year 2016 Project Priority List September 2016

The Clean Water Project Priority List (PPL) consists of project proposals submitted to the MPCA by communities and sanitary districts seeking financial assistance for sewer and wastewater treatment construction projects and for stormwater projects. Proposals include information describing and supporting the needs that will be addressed by the project. The MPCA prepares the PPL annually by ranking project proposals according to environmental criteria defined by Minn. R. ch. 7077. The PPL is then used by the Public Facilities Authority (PFA) to award grants and low-interest loans. The State Fiscal Year (SFY) 2016 PPL is included as Appendix 3 of this Report. For information regarding PFA grants and loans the website is: <http://mn.gov/deed/government/public-facilities/funds-programs/>

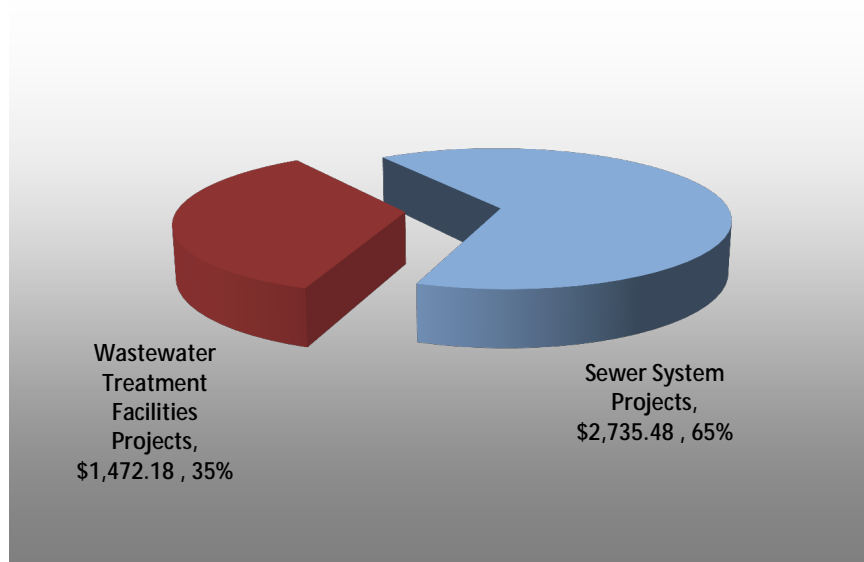
Wastewater infrastructure needs addressed by 2016 PPL project proposals for wastewater projects are a subset of, and represent approximately 22% of the total number of wastewater project proposals and 30% of the overall costs identified by the 2015 WINS Survey.

Wastewater infrastructure needs and capital costs

This section provides summary information on future wastewater infrastructure needs and corresponding capital costs facing Minnesota communities and sanitary districts. The summary data is based on over 1,350 wastewater infrastructure projects identified as future needs in the 2015 WINS survey and/or listed on the current SFY 2016 PPL. Summaries are provided statewide according to types of need (e.g., treatment facilities projects, sewer rehabilitation, etc.), the contrasting needs of Greater Minnesota and the Twin Cities Metropolitan Area, Minnesota's Economic Development Regions, and the proposer's projected time frame (i.e., current 0-5 years, 5-10 years, 10-20 years). The following charts and tables provide a basic overview of the projected \$4,207.66 million¹ in wastewater infrastructure needs. The specific needs of individual communities as reported in the 2015 WINS survey are summarized by Economic Development Regions and counties in Appendix 1; and according to needs, projects, costs, and affordability in Appendix 2.

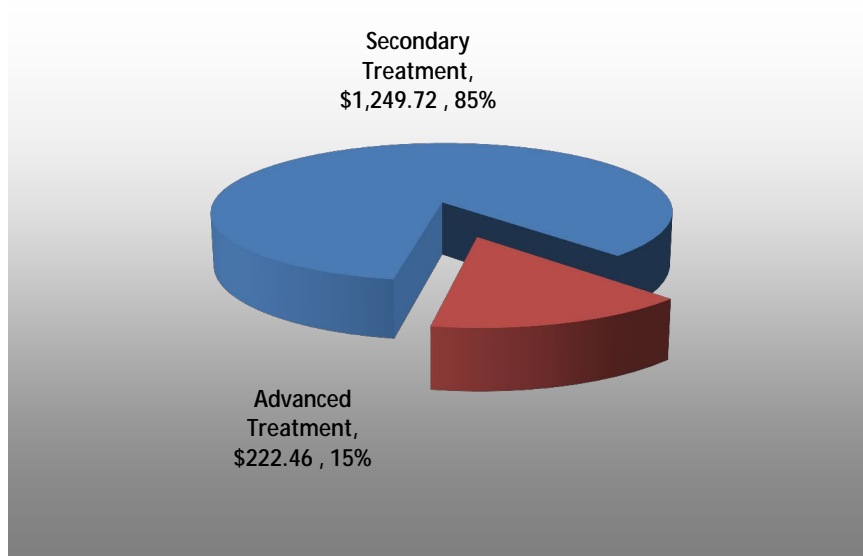
¹ The reported \$4,207.66 million of overall need of the 2016 Report compares to reported needs of previous years (in millions) as follows: 2014 - \$3,986.77; 2012 - \$3,658; 2010 - \$4,340; 2008 - \$4,526.57; 2006 - \$3,483.59 and 2004 - \$2,539.28. The general congruence of needs from 2010 through 2016 suggest that the substantial increases in identified needs over the period 2004 to 2008 should not be understood as representing an actual "on the ground" approximately 80% increase in infrastructure need over a four year period. Rather they are primarily the result of an increase in the number of communities responding to the WINS survey and improvements in the quality of responses with participating communities and sanitary districts providing more thorough and complete responses.

Chart 1: Statewide wastewater infrastructure needs by project type
Total need = \$4,207.66 (millions)



The \$1,472.18 million dollars in wastewater treatment project costs for the rehabilitation, improvement and expansion of wastewater treatment facilities and processes are distributed between secondary and advanced treatment² as indicated in Chart 2 (below):

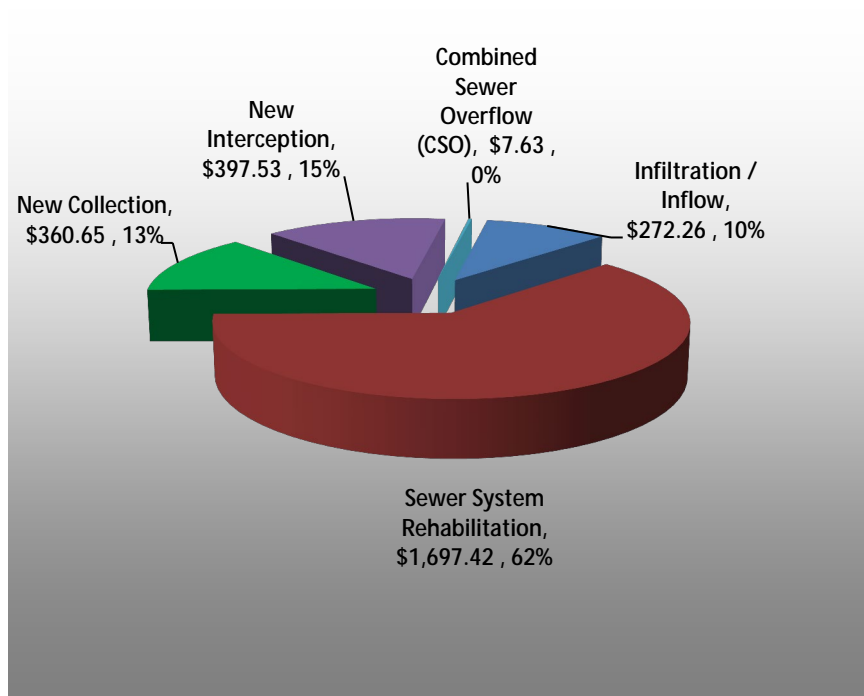
Chart 2: Statewide distribution of wastewater treatment facility needs according to secondary and advanced treatment (millions)



Of the \$2,735.48 million dollars of sewer system projects to rehabilitate, improve and expand sewer collection and interceptor systems, costs are distributed as indicated in Chart 3:

² For descriptions of secondary and advanced treatment please see pages 9-10.

Chart 3: Statewide distribution of sewer system needs by type of sewer project (millions)



Greater Minnesota needs and MCES service area needs

This section provides summary information on future wastewater infrastructure needs and capital costs facing Greater Minnesota, as compared to the Metropolitan Twin Cities. Metropolitan area wastewater infrastructure needs and capital costs are those of MCES and the corresponding sanitary sewer system needs of Twin Cities communities (i.e. MCES Service Area Communities) receiving wastewater treatment and interceptor services from MCES*.

Chart 4: Distribution of \$4,207.66 million statewide need between Greater Minnesota and the MCES and MCES Service Area Communities (millions)

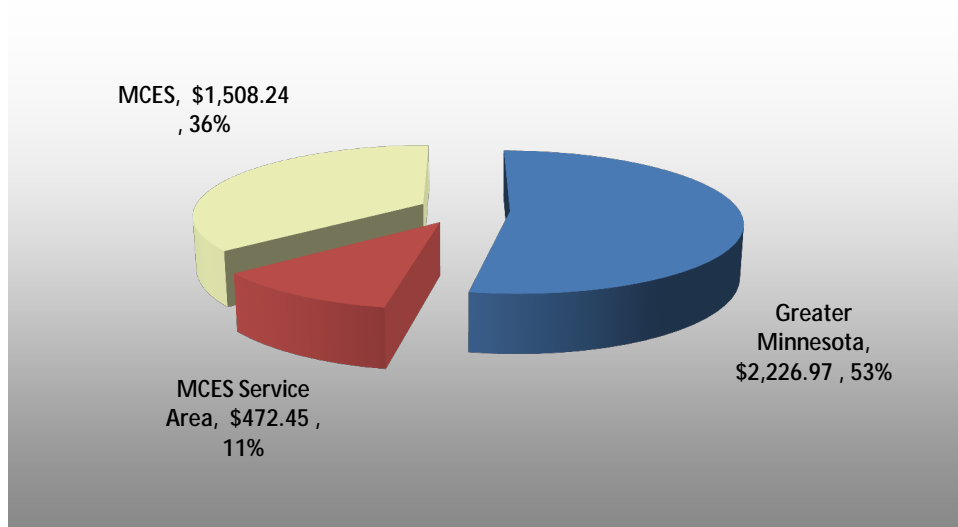
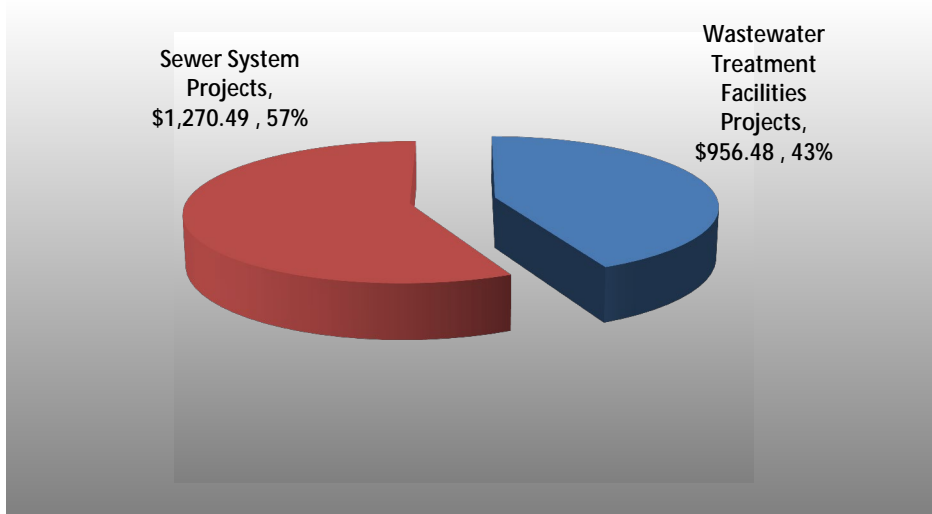


Chart 5: Greater Minnesota wastewater infrastructure needs by project type -- total Greater Minnesota need = \$2,226.97 (millions)



*The MCES service area encompasses approximately 112 communities serving a total population of: 2,608,072, 51% of the State's total population (2010 US Census) See Appendix 4 for a list of MCES Service Area Communities.

Chart 6: Greater Minnesota wastewater infrastructure needs by treatment facilities and sewer system type -- total Greater Minnesota need = \$2,226.97 (millions)

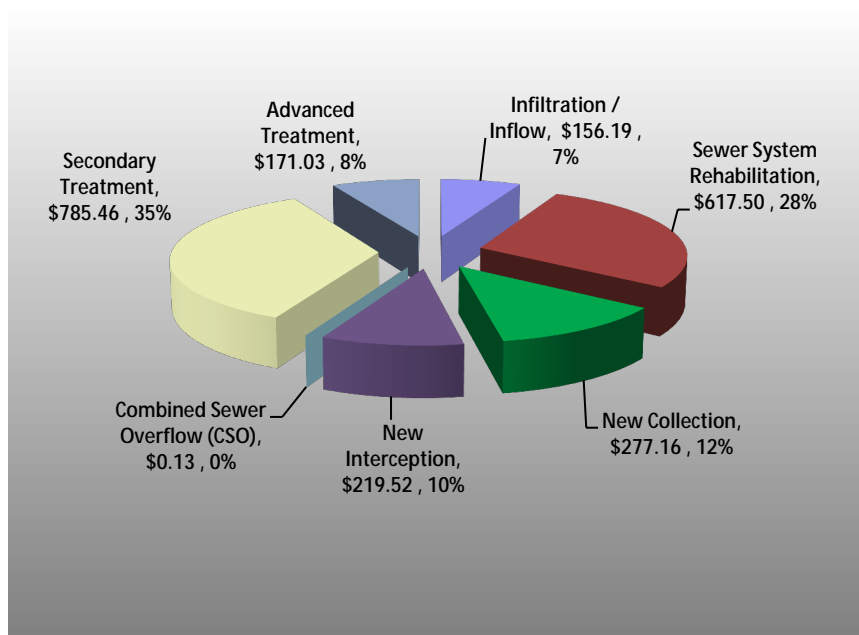
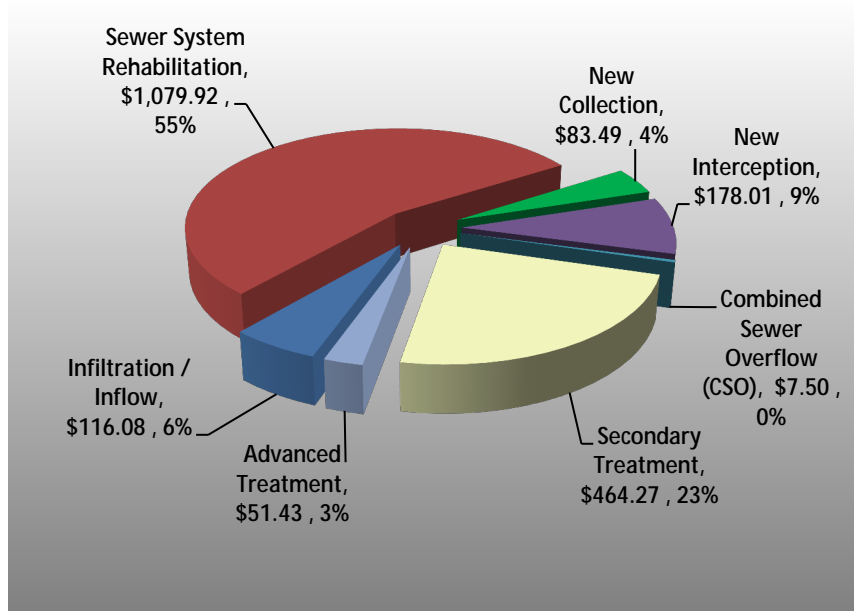


Chart 7: MCES and MCES Service Area Communities wastewater infrastructure needs by treatment facilities and sewer system type – total need = \$1,980.69 (millions) *

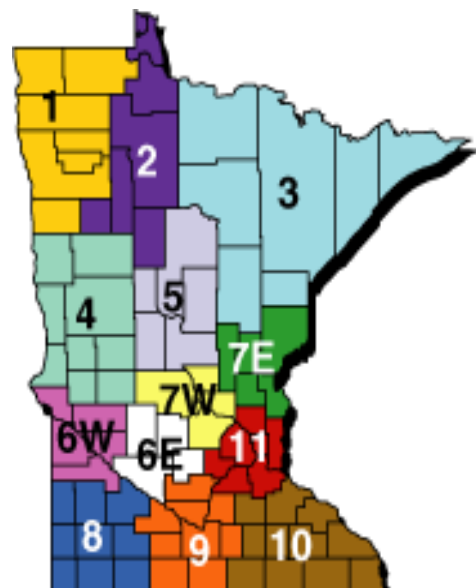


* The comparatively low percentages for “New Collection” may be influenced by a widespread local community policy of requiring residential developers to incorporate wastewater collection construction into development projects. Consequently such capital costs are not reported to the WINS survey which only identifies *public* needs. Also note that approximately 94% of the \$343.05 of New Interceptor needs is attributable to MCES.

Needs by economic development region

Table 1: Projected wastewater infrastructure needs by Minnesota’s Economic Development Regions [UPDATED]

Economic Development Regions (EDR)	Projected Wastewater Infrastructure Needs (\$ million)
1	48.38
2	60.13
3	379.13
4	192.49
5	88.84
6E	134.27
6W	52.98
7E*	101.68
7W*	348.69
8	246.00
9	134.45
10	294.46
11**	<u>2,126.16</u>
Statewide Total:	<u>4,207.66</u>



EDR # 1
 Kittson
 Marshall
 Norman
 Pennington
 Polk
 Red Lake
 Roseau
EDR # 2
 Beltrami
 Clearwater
 Hubbard

Lake of the
 Woods
 Mahnomon
EDR # 3
 Aitkin
 Carlton
 Cook
 Itasca
 Koochiching
 Lake
 St. Louis
EDR # 4
 Becker

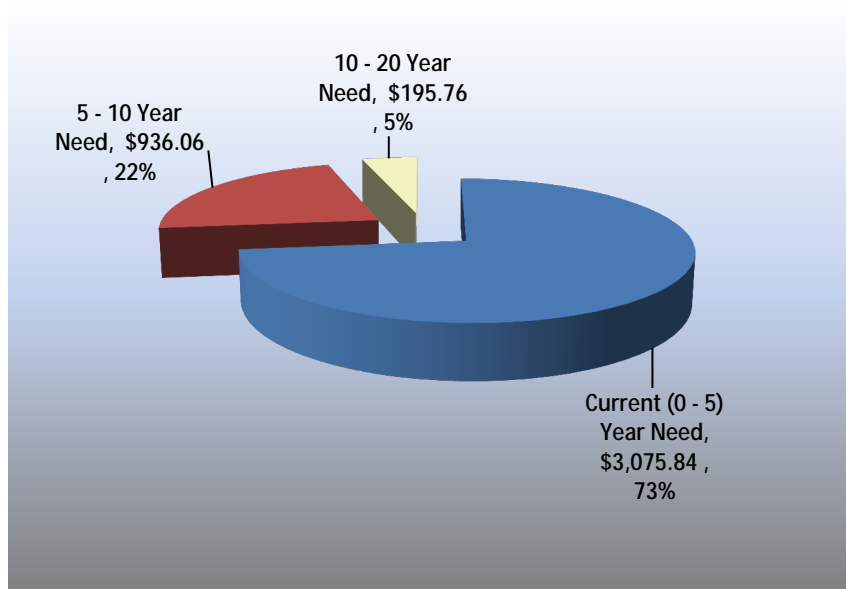
* EDRs 7E & 7W include three Twin Cities Metro Counties: Chisago, Sherburne, and Wright

** Twin Cities Metropolitan Area (includes Metropolitan Council Environmental Services (MCES), MCES Service Area Communities and also a number of projects in exurban communities being integrated into the MCES Service Area.

Statewide needs by timeframe

Chart 8 below, illustrates wastewater infrastructure needs according to time frames. As indicated, the majority of costs are identified as current needs. Infrastructure costs of 5-10 years and 10-20 years may be underrepresented, in part because such costs are unanticipated. In addition, many communities, particularly smaller communities, lack the planning and fiscal resources to engage in strategic and comprehensive capital improvement planning. (See "Appendix 5: Survey Responses and Methodological Considerations" for further discussion of this point.)

Chart 8: Wastewater infrastructure needs by time frame (millions)



Completed wastewater infrastructure projects 2014 - 2015

During the two year period from January 1, 2014, through December 31, 2015, a total of 541 wastewater infrastructure projects were completed throughout Minnesota for a total cost of \$1,190.07 million. The distribution of costs and projects between Greater Minnesota, MCES and MCES service area communities are as indicated on the chart below. Note that costs are overall project totals for projects activities during the time period indicated. Multi-year projects may have been initiated and costs incurred prior to January 1, 2014.

Chart 9: Distribution of \$1,190.07 (millions) of completed projects between Greater Minnesota, MCES and MCES Service Area Communities

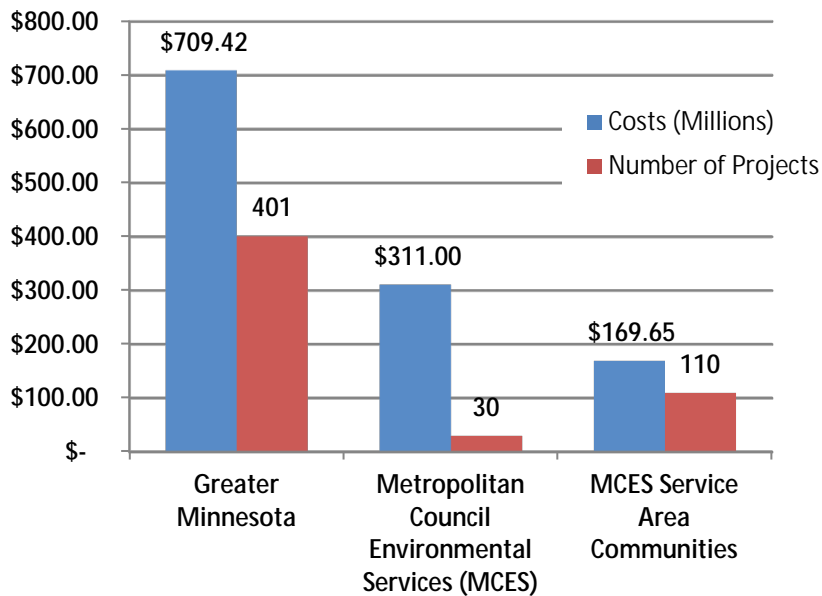


Chart 10 indicates that from Jan. 1, 2014 to Dec. 31, 2015 Greater Minnesota improvements focused on sewer system rehabilitation (along with I/I correction) and on rehabilitation and improvement of secondary treatment.

Chart 10: Distribution of \$709.42 (millions) of completed projects in Greater Minnesota

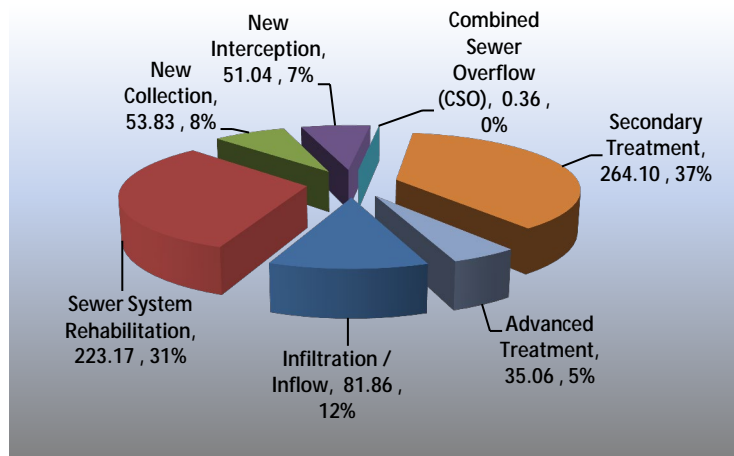


Chart 11 indicates improvements by MCES Service Area Communities from Jan. 1, 2014 through Dec. 31, 2015 focused primarily on I/I correction and sewer rehabilitation.

Chart 11: Distribution of \$169.65 of completed projects in the MCES Service Area (in millions)

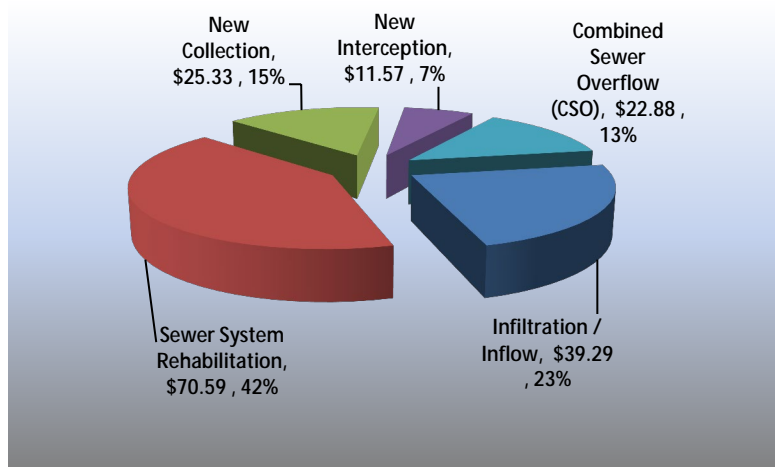
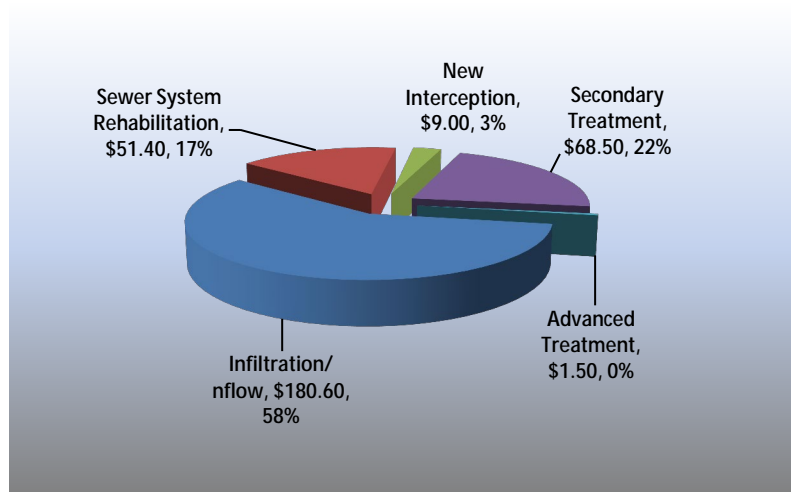


Chart 12 indicates construction activities by MCES from January 1, 2014, through December 31, 2015, focused on I/I.

Chart 12: Distribution of \$311.00 of completed MCES improvement projects (in millions)



Wastewater infrastructure needs, household costs, and affordability

This section provides summary information on household costs and a comparative measure of affordability of wastewater infrastructure projects. In determining the effects of infrastructure costs on households, the following assumptions have been made:

- Current (0 – 5 yr.) projects are assigned an estimated market rate loan of 2.69% over 20 years.
- Residential connections are assumed to be responsible for providing 90% of the debt service payments for individual communities and projects. This general assumption may not apply to specific communities where, for example, a treatment facility's expansion is being funded by industrial development, in which case the residential share of a project could be considerably less than 90%.

- With sewer system collection or interceptor costs, affordability figures assume that such costs are spread across the entire community at 90% for residential connections, whereas such costs may in fact be localized and limited within communities and paid according to special assessments.

Chart 13 below is a regression analysis illustrating the relationship between population and household costs. Costs are for current (0 – 5 yrs.) infrastructure projects identified in 2015 WINS as necessary to meet existing identified sewer and wastewater treatment capital needs along with annual operation and maintenance costs. These combined household costs are presented as a percentage of annual median household income (2010 U.S. Census). The graph indicates the pronounced effect of economies of scale on household costs and affordability. The Minnesota PFA uses 1.4% of median household income as a wastewater costs affordability index for Minnesota communities. As indicated, a community characteristically needs a population of approximately 750 to achieve an affordability index of 1.4%.

Chart 13: Current wastewater infrastructure projects: household capital and operational cost as a percentage (%) of median household income for communities according to population

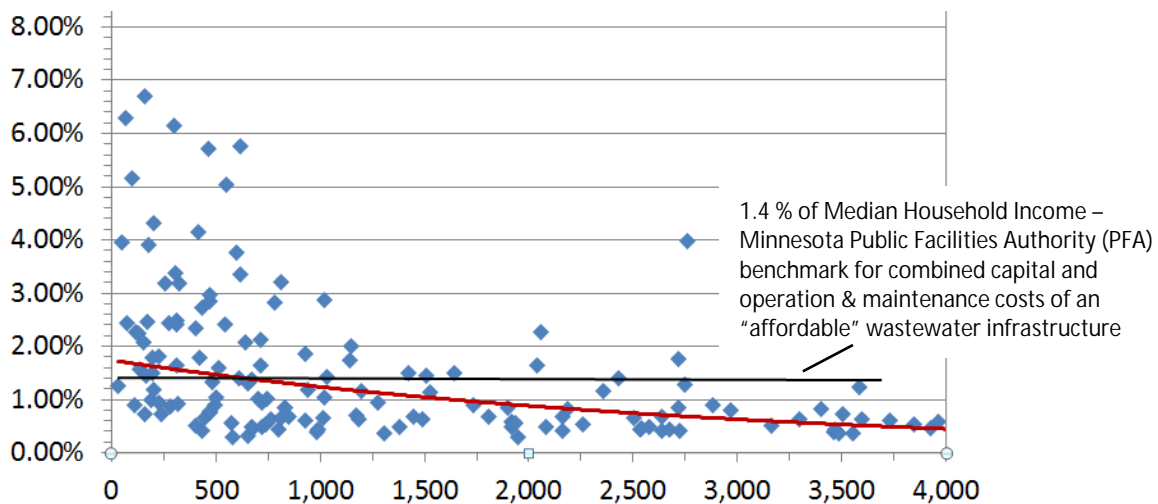


Chart 14 below indicates within each Economic Development Region (EDR) the percentage of communities responding to the WINS survey where the cost of paying for current (0 – 5 yrs.) wastewater infrastructure needs along with operating and maintenance costs exceed 1.4 percent of median household income. (A table listing counties by EDR is provided on page 17)

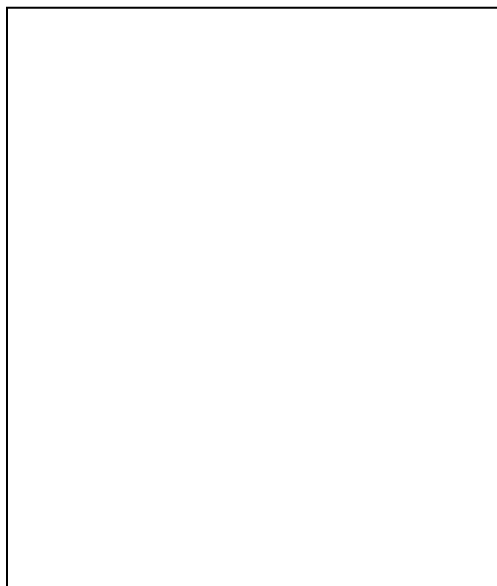
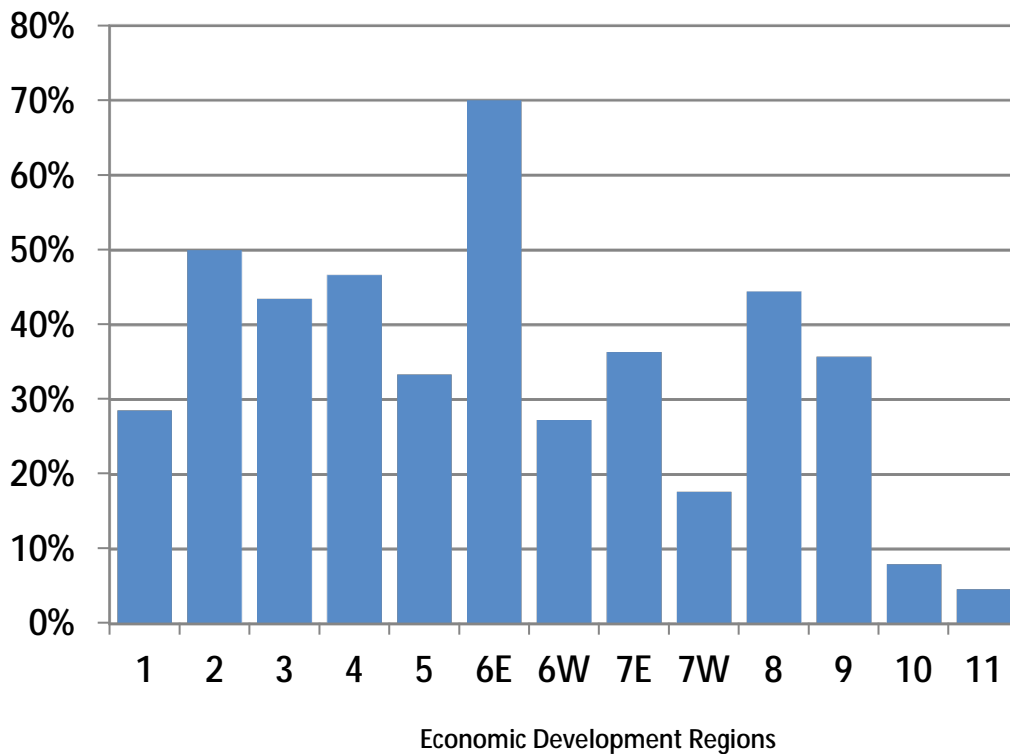


Chart 14: Percentage of communities with wastewater infrastructure needs exceeding 1.4% of median household income



Age and condition of existing wastewater Infrastructure

A report by the American Society of Civil Engineers (ASCE) issued February, 2007 describes the nation's aging and deteriorated wastewater infrastructure in which overloaded and inadequate systems "discharge billions of gallons of untreated sewage into U.S. surface waters each year."³ The report notes that many collection systems have reached the end of their useful lives and blocked or broken pipes result in the release of raw sewage. The report goes on to cite estimates that a national investment of \$390 billion will be required over the next 20 years to replace existing systems and build new ones to meet increasing demands. How does Minnesota compare to the rest of the nation when it comes to the age and condition of our existing wastewater infrastructure?

Combined sewer overflows (CSO): In many areas of the U.S., particularly in major metropolitan areas at and east of the Mississippi River, sewer collection systems constructed prior to the 1950s combined the collection of sanitary wastes and stormwater. During storms when stormwater runoff is high, these combined systems generate flows that greatly exceed the capacity of treatment facilities. Consequently,

³ Available at the ASCE website: <http://www.infrastructurereportcard.org/fact-sheet/wastewater>

overflow “relief” discharge points – CSOs – are necessary from which untreated sewage is released to rivers, lakes and streams.

Nationwide CSO discharges of untreated sewage – estimated by EPA (2004) to reach 850 billion gallons per year – continue to be an enormous water quality and public health problem. In many metropolitan areas and states, eliminating CSO discharges comprises a major share of infrastructure needs and costs. In contrast Minnesota has acted effectively to address this problem. Thanks to a concerted funding effort during the 1980s and construction during the 1980s and 1990s, CSO elimination is now a relatively minor problem. Minnesota has only one remaining CSO permit which has not reported a discharge in many years.

Aged collection sewers and treatment facilities: The age and condition of Minnesota’s collection sewer systems and treatment facilities varies between communities but is primarily a contrast between Greater Minnesota and the Twin Cities MCES service area. In Greater Minnesota the age of collection sewer systems and wastewater treatment facilities suggests that aged infrastructure is significant and extensive and represents an important challenge.

The expected useful life of sewer piping manufactured and installed is approximately 40-80 years. Factors including soils, geological conditions, flows, loadings, maintenance and the deterioration of materials will determine the actual life of particular installations. The ongoing condition and serviceability of sewers will vary on a case-by-case basis but performance can be enhanced and extended through effective programs of inspection, maintenance, repair, relining and rehabilitation. Chart 15 “Greater Minnesota Age of Collection Sewer Systems” presents the age of collection sewers in Greater Minnesota. As indicated, 44% of sewers in Greater Minnesota are less than 30 years old, 25% are 30 – 50 years old, and 31% of Greater Minnesota sewers were installed over 50 years ago.

Sewers installed over fifty years ago are frequently beyond their useful life in part because many such systems were constructed of vitrified clay tiles that are not as durable and do not perform at current standards. Accordingly substantial infiltration, inflow, outflow, obstruction and other performance problems tend to be pervasive. Based on current levels of investment in major sewer rehabilitation and replacement – as documented in WINS surveys received – it appears that there may be a significant gap in Greater Minnesota between the deterioration and the replacement of aged collection sewers.

Available at the ASCE website: <http://www.infrastructurereportcard.org/wastewater/>

Chart 15: Greater Minnesota - Age of Collection Sewer Systems (9,965 miles of sewers surveyed) [Updated]

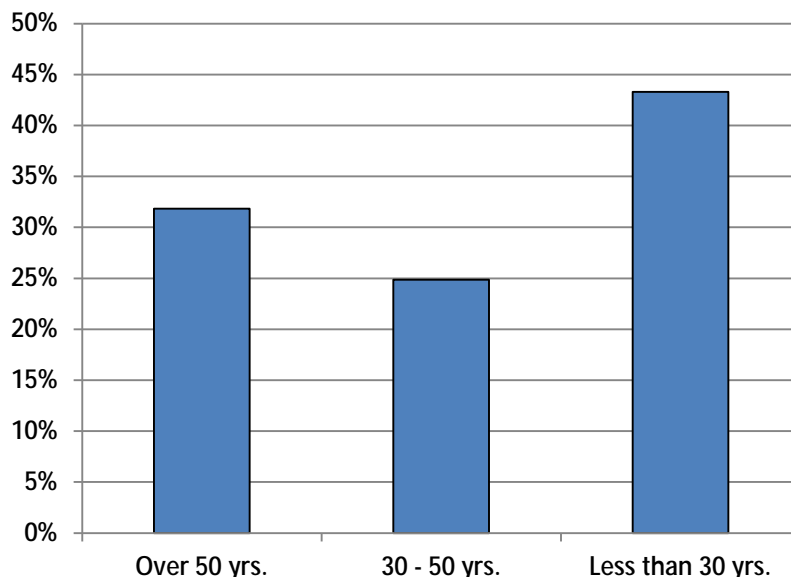
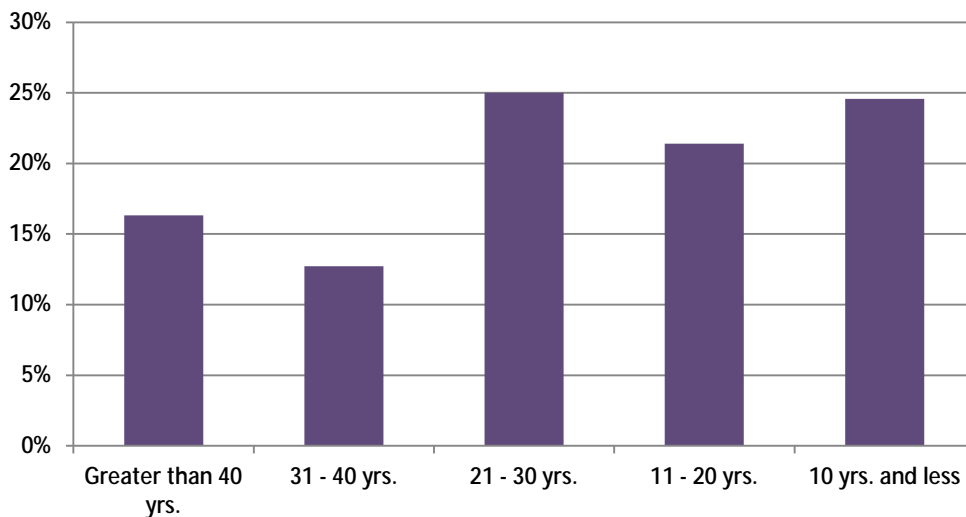


Chart 16 "Greater Minnesota Age of Wastewater Treatment Facilities" indicates the age of treatment facilities in Greater Minnesota.

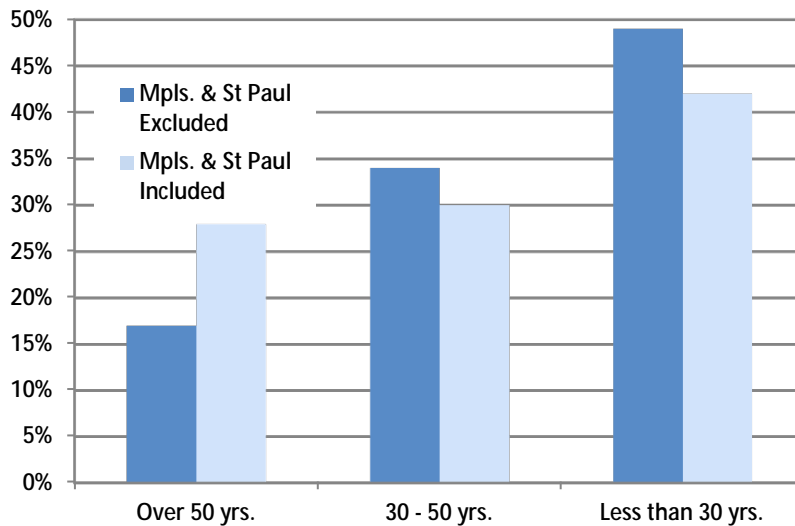
Chart 16: Greater Minnesota - Age of Wastewater Treatment Facilities (472 facilities surveyed)



Major structural components of wastewater treatment facilities have an expected useful life of 40 years – dependent in part on operation and maintenance. As these structures deteriorate beyond their useful life effectiveness declines leading to a greater potential for: permit violations, spills and related unintended discharges and additional operational and maintenance expenses. While at this point in time 16% of Greater Minnesota’s treatment facilities are over 40 years old, in 10 years without reconstruction projects the percentage would reach approximately 28%. This scenario would likely result in significantly increased infrastructure demands and costs.

In the Twin Cities, local communities collect sewage from households, businesses, etc. and then route it to the appropriate MCES interceptors. MCES operates an extensive interceptor system conveying wastewater to its treatment facilities for treatment and discharge. Given the overall scale and the extensive revenue base of MCES, the MCES system is managed for scheduled rehabilitation and improvements according to extensive long term capital improvement planning. Consequently within the Twin Cities Metropolitan Area, local community collection sewers comprise the primary consideration relative to aged and deteriorated wastewater infrastructure. The age of collection sewers in the Twin Cities Metropolitan Area, excluding and including Minneapolis and St. Paul (MSP), is indicated by Chart 17 "MCES Communities (excluding and including MSP) Age of Collection Sewer Systems"

Chart 17: MCES communities (excluding and including MSP) – Age of Collection Sewer Systems
MCES Communities (excluding MSP) – 8,239 miles of sewers
MSP – 1,578 miles of sewers



The *dark blue bars* in Chart 17 indicate the age of Twin Cities Metropolitan Area community collection sewer systems with Minneapolis and St. Paul *excluded*. The *light blue bars* indicate the comparative data when Minneapolis and St. Paul are *included*. The reason for presenting MCES service area data with and without the Twin Cities is as follows: a) Minneapolis and St. Paul have Capital Improvement Plans in place to rehabilitate collection sewers that were not a part of the circa 1980s and 1990s CSO program and, b) While not minimizing the very substantial investments and the costs being incurred by Minneapolis and St. Paul, these communities have the economies of scale and the established financial resources to complete these projects and are making and planning to continue to make substantial progress in rehabilitating and replacing older sewers. Accordingly, in the Twin Cities Metropolitan Area outside of the cities of Minneapolis and St. Paul, 17% of collection sewers (1,410 miles) were installed 50 or more years ago. Thus on average suburban MCES Service Area Communities have a comparatively small percentage of sewers constructed over 50 years ago. However this average conceals substantial percentages of 50 years plus sewers in older communities located in the metro area, including: Richfield, St Louis Park, Excelsior, Falcon Heights, and Roseville.

The age of the collection sewer systems and wastewater treatment facilities of specific communities as reported in the 2015 WINS survey are provided in Appendix 6.

Estimating future costs

A number of factors influence the variability between reported estimates of future costs and the actual costs of infrastructure improvements encountered during construction. There are also conditions affecting the availability and timeliness of cost estimates.

The timeframe from when a need is identified and costs are estimated to the completion of construction consists of several phases:

- Recognition of need
- Facilities planning
- Plans and specifications
- Bidding and construction

The WINS survey uses three timeframes for cost estimates:

- Current needs (immediate needs up to 5 years)
- 5 – 10 year needs
- 10 – 20 year needs

The longer the timeframe from the initial estimate of future costs to the actual date of construction, the greater the likelihood of variability between the initial estimate and the actual construction costs. Correspondingly, as an anticipated project moves from initial planning to facility planning to the development of construction plans and specifications, cost estimates will become more detailed, refined and precise. There are, however, exceptions to this overall process.

Conditions affecting the availability and timeliness of cost information include:

Cost estimates from active projects

Communities that have already identified a wastewater need and are actively planning and developing a project will characteristically have readily available needs and cost information. Such information is likely to be both reasonably accurate and up-to-date. Accordingly, projects currently on the PPL are more likely to have readily available and well-developed cost information than communities not yet actively engaged in assessing and addressing needs.

Community capabilities, resources, and expertise

Correspondingly, the accuracy of future cost estimates are also affected by the availability of resources and expertise to:

- Effectively monitor, survey, and track the condition of existing infrastructure and ascertain the need for rehabilitation and replacement.
- Engage in strategic planning to address growth and expanding capacity needs.
- Estimate project costs, including architectural and engineering specifications, construction costs planning and project administration.

Given these factors, the capability of a community or sanitary district to estimate the future costs of wastewater treatment has to do with the availability of resources and expertise. The availability of resources and expertise is, in turn, dependent upon the number of connections and the economies of scale within a community or sanitary district. In general, as the population of a service area exceeds 1,000 residents, it becomes increasingly feasible for communities and sanitary districts to engage in capital improvement planning for wastewater infrastructure. A comprehensive approach implemented

by a number of communities – known as *Asset Management Planning* – involves carefully maintaining while closely monitoring system components to gain the efficiencies of maximum useful life and systematic, scheduled replacement. Smaller communities that are not faced with an immediate need tend to lack the resources required to exercise the technical and administrative capabilities necessary to survey and plan for infrastructure improvements. For additional comments on estimating future costs please see Appendix 5: Survey Responses and Methodological Considerations.

Average monthly residential sewer charges

Responding to the 2015 WINS Survey, 660 communities identified what they charged for sewer service for an average or typical residential connection at an assumed volume of 60,000 gallons annually / approximately 164 gallons per day. The following table provides various statistical parameters for average monthly residential sewer charges in Greater Minnesota and in the MCES Service Area. Greater Minnesota charges are reported by a series of population ranges. The sewer charges of individual communities as reported in response to WINS are listed alphabetically by community and also from highest to lowest charge in *Appendix 7 Average Monthly Residential Sewer Charges*.

Greater Minnesota					
Community Pop.	Average	Median	High	Low	Range
Under 500	\$ 30.67	\$ 30.00	\$ 102.05	\$ 1.67	\$ 100.38
500 to 999	\$ 35.79	\$ 35.00	\$ 185.00	\$ 8.17	\$ 176.83
1,000 to 2,499	\$ 37.56	\$ 34.95	\$ 96.90	\$ 12.50	\$ 84.40
2,500 to 4,999	\$ 36.25	\$ 36.95	\$ 83.00	\$ 13.30	\$ 69.70
5,000 to 9,999	\$ 40.67	\$ 31.82	\$ 88.33	\$ 10.25	\$ 78.09
10,000 to 24,999	\$ 33.09	\$ 28.09	\$ 46.50	\$ 15.37	\$ 31.13
25,000 and Over	\$ 26.91	\$ 27.45	\$ 42.69	\$ 16.42	\$ 26.27
MCES Service Area (All Communities)					
	Average	Median	High	Low	Range
	\$ 23.23	\$ 27.45	\$ 56.00	\$ 10.23	\$ 45.77

Variability of residential sewer charges

The overall range of sewer charges collected by Minnesota communities is considerable. The city of Lanesboro, which has the highest reported residential sewer charges in the State (as reported in 2015 WINS) collected \$185.00 monthly as compared to several communities that charge less than \$2.50 monthly. While this is the most dramatic contrast, *the variability of charges is the most pronounced characteristic of what local communities collect for sewer use*. Note that on the Table, the smallest range of sewer charges (from highest to lowest) is that of Greater Minnesota communities with a population 25,000 and over and yet even for this group the highest charge is almost 3 times the lowest. Moreover even if we exclude the range of charges of 37 times (from lowest to highest) represented by Lanesboro (i.e., Greater Minnesota communities with populations 500 to 999) and substitute the next

highest monthly charge of \$116.25 (Clear Lake) for this group, the typical range as identified in the table for Greater Minnesota is that the highest charge is 13 times the lowest while for the MCES communities the value is approximately five. This remarkable variability of costs can be both puzzling and a matter of significant concern to the residents of a community facing sewer charges that are several times those of a neighboring community – where the neighbor is otherwise quite similar in population and other characteristics. Here are a number of factors that help to account for the variability of charges:

- **Stage in the life cycle** – If Community #1 has recently constructed a new treatment facilities either for the first time or to replace a deteriorated facility, and has correspondingly made major improvements to its collection system, it's residential sewer charges are likely to be quite high; particularly if compared to Community #2 that has fully retired the debt on its existing treatment facility and collection system. Such differences in stage of the life cycle can result in what are perhaps the most dramatic contrasts in sewer charges.
- **Economies of scale** – In constructing wastewater infrastructure, particularly treatment facilities, there are certain threshold costs that must be met to build, for example treatment ponds serving a population of 500. Once these costs are met, it is incrementally less expensive to construct expanded ponds that will serve a population of 1,000 or 1,500. The costs of such expanded ponds in more populous communities can then be “spread out” over a large base of residential customers. As a result, residential customers in smaller communities will likely face higher sewer charges.
- **Population densities and the structure of communities** – In providing sewer collection services, population densities and the physical structure of a community can have a significant impact on capital costs, and to a lesser extent operation and maintenance costs. Consider for example an older, developed St. Paul or Minneapolis neighborhood where residential structures are adjacent on small lots and streets are laid out on a grid – as compared to a suburban or exurban community with very large lots, winding streets, or a community built up around a lake or a small town with scattered development. Clearly the older city grid structure will have lower capital and maintenance costs which should affect residential sewer charges.
- **Meeting permit requirements** – Treatment facilities that fail to meet NPDES or SDS discharge permit requirements – releasing insufficiently treated discharges and excessive volumes – can, at least in the short term, be less expensive to operate, resulting in lower sewer charges. Treatment facilities fail to meet discharge requirements because of some combination of an inadequate physical plant (deteriorated structures or insufficient capacities) or failure to operate and maintain the plant properly. Failure to meet permit requirements can also be brought about by a collection sewer system where excessive infiltration and inflow results in unauthorized discharges from a treatment facilities overwhelmed by the volume of wastewater. The apparent cost “savings” of failing to meet permit requirements will actually result in higher overall costs because of fines and other penalties and because of costs of rehabilitating or replacing neglected treatment and collection systems.
- **Advanced treatment** – Implementation of the EPA – TMDL program to restore, protect, and preserve Minnesota's water resources will result in permit requirements to reduce the discharge of specific pollutants into water resources and watersheds. These advanced treatment requirements, the costs of which are included in the Report, result in additional capital and operation and maintenance expenditures and corresponding increases in residential sewer charges.
- **Asset management** – Asset management is the planned and systematic operation and maintenance of treatment facilities and collection systems structures to ensure that structures and equipment will achieve their maximum service life. While as prudent management asset management can have both short and long term benefits (e.g., avoiding the premature

replacement of a major pump or the deterioration of a tank or other major capital structure) avoiding such costly failures can result in somewhat increased ongoing operational and maintenance costs. Conversely, without effective asset management the costs of reoccurring failures and emergencies can quickly increase residential sewer charges.

- **Recover of costs through assessments and property taxes** – Communities have the option of recovering all of their wastewater costs (i.e., operation and maintenance and the capital costs of treatment facilities and collections systems) through sewer charges. Communities also choose to recover capital costs in particular through property assessments and property taxes. Clearly these choices can have a dramatic impact on residential sewer charges, where the sewer charges can be much higher in a community that recovers all of its costs through the sewer charge, as compared to a community that makes use of property assessments and property taxes – even where when added up the actual overall cost per residential connection is the same.
- **Subsidizing wastewater costs** – Although as a rule, Minnesota communities operate wastewater utilities as dedicated funds (i.e., sewer service income through charges and sewer service expenses are kept separate from other municipal funds), communities may also, on occasion subsidize wastewater costs from other city revenue (e.g., municipal liquors), resulting in residential sewer charges that are below what is required to cover costs.
- **Site availability and conditions for soil based systems** – For small communities where the cost of a conventional wastewater collection and treatment system is prohibitive, SSTs that serve individual residences, clusters of residences or the full community may be the most practicable alternative. Despite reduced costs of some of these systems, site specific conditions such as small residential lots, unsuitable soil types for treatment, or insufficient depth to high water table, may add significant costs to using a soil-based treatment alternative. Significant cost increases may also be related to discharge standards necessary to protect groundwater and related public health.

Appendices to 2016 Future Wastewater Infrastructure Needs and Capital Costs are bound as a separate document available upon request. The Table of Contents above (page 4) briefly describes the Appendices. The Report and the Appendices will also be available early 2016 at the following location on the MPCA website: <https://www.pca.state.mn.us/about-mpca/legislative-reports>

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 1

County	Community /	Population**	Estimated Project Cost(s) (millions)
Kittson			
	Hallock	.....	\$1.53
			\$1.53
Marshall			
	Grygla	233	\$0.15
	Oslo	311	\$2.50
	Stephen	720	\$3.50
	Viking	.....	\$1.16
	Warren	1,900	\$5.30
			\$12.61
Norman			
	Borup	97	\$2.50
	Twin Valley	833	\$0.85
			\$3.35
Pennington			
	Thief River Falls	8,563	\$1.20
			\$1.20
Polk			
	Climax	256	\$2.46
	Crookston	7,887	\$1.19
	East Grand Forks	8,458	\$9.42
	Erskine	494	\$0.41
	Fertile	851	\$0.35
	Mentor	150	\$1.85
	Nielsville	182	\$0.15
			\$15.83
Red Lake			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
 Communities Providing Estimates of Future Wastewater Infrastructure Costs
 Summarized by Economic Development Regions and Counties***

	Red Lake Falls	1,447	\$0.70
			<hr/>
			\$0.70
Roseau			
	Greenbush	722	\$0.08
	Warroad	2,039	\$13.08
			<hr/>
			\$13.16
<hr/>			
	Economic Development Region: 1		
	Total Estimated Costs to address identified needs:	\$48.38	million
<hr/>			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 10

County	Community /	Population**	Estimated Project Cost(s) (millions)
Dodge			
	Dodge Center	2,640	\$0.53
	Kasson	5,807	\$8.35
	Mantorville	1,175	\$3.70
			\$12.58
Fillmore			
	Fountain	404	\$0.18
	Ostrander	303	\$5.63
	Preston	. . . . .	\$0.39
	Rushford	. . . . .	\$0.80
	Whalan	. . . . .	\$1.01
			\$8.01
Freeborn			
	Albert Lea	18,046	\$7.33
	Albert Lea - Stables Area	. . . . .	\$7.18
	Freeborn County - Stables Are	. . . . .	\$5.40
	Glenville	. . . . .	\$0.11
	Hartland	281	\$0.68
	Manchester	. . . . .	\$3.21
	Myrtle	45	\$2.55
			\$26.45
Goodhue			
	Cannon Falls	4,073	\$7.60
	Dennison	\$0.76
	Pine Island	\$0.50
	Randolph	\$7.43

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** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
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	Wanamingo	1,013	\$1.10
			\$17.39
Houston	Caledonia	2,880	\$3.00
	Houston	\$0.47
	La Crescent	4,867	\$1.04
			\$4.51
Mower	Adams	800	\$0.01
	Austin	24,559	\$9.75
	Austin Twp	991	\$0.63
	Grand Meadow	985	\$0.68
	Le Roy	. . . . .	\$0.52
	Racine	449	\$1.23
	Red Rock Twp - Nicolville	. . . . .	\$0.20
	Rose Creek	470	\$1.24
			\$14.27
Olmsted	Cascade Twp	. . . . .	\$0.50
	Eyota	. . . . .	\$0.10
	Oronoco	. . . . .	\$12.75
	Oronoco Twp - Cedar Beach	2,121	\$1.55
	Rochester	105,576	\$106.40
	Stewartville	. . . . .	\$1.67
			\$122.97
Rice	Faribault	23,195	\$6.65
	Lonsdale	3,466	\$10.30
	Northfield	18,608	\$0.62

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**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

		\$17.57
Steele		
	Aurora Twsp - Bixby	\$0.23
	Blooming Prairie 1,919	\$2.92
	Ellendale 654	\$1.21
	Owatonna 25,456	\$45.55
		\$49.91
Wabasha		
	Mazeppa 675	\$0.50
	Plainview 3,332	\$0.50
	Wabasha 2,532	\$0.05
	Zumbro Falls 166	\$0.75
		\$1.80
Winona		
	Dresbach Twp 527	\$3.59
	Goodview 4,003	\$10.85
	Winona 27,671	\$4.57
		\$19.01
<p style="text-align: center;">Economic Development Region: 10</p> <p style="text-align: center;">Total Estimated Costs to address identified needs: \$294.46 million</p>		

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 11

County	Community /	Population**	Estimated Project Cost(s) (millions)
	MCES - Metro Council Env. S		\$1,508.24
			\$1,508.24
Anoka	Andover	30,371	\$5.36
	Anoka		\$3.20
	Bethel	470	\$4.19
	Columbia Heights		\$0.15
	Fridley	27,394	\$1.27
	Ham Lake	15,112	\$2.00
	Oak Grove		\$0.10
	Ramsey		\$0.50
	St Francis		\$24.00
	St Francis - East & West Facil	7,218	\$2.73
			\$43.49
Carver	Chanhassen	23,000	\$17.34
	Chaska		\$5.40
	Cologne	1,489	\$7.70
	Hamburg	610	\$2.93
	Laketown Twp	2,304	\$0.74
	Mayer	1,306	\$1.05
	Norwood Young Amercia		\$5.00
	Norwood Young America	3,554	\$3.50
	Victoria		\$0.34

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** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

	Waconia	10,429	\$3.96
	Watertown	4,140	\$22.10
			\$70.07
Dakota	Apple Valley	49,020	\$6.39
	Burnsville	60,699	\$1.79
	Eagan	. . . . .	\$0.39
	Farmington	20,305	\$4.11
	Hastings	. . . . .	\$0.77
	Inver Grove Heights	. . . . .	\$1.52
	Lakeville	54,951	\$3.62
	Lilydale	818	\$0.50
	Mendota Heights	11,191	\$0.74
	South St Paul	. . . . .	\$4.00
			\$23.82
Hennepin	Bloomington	82,962	\$4.15
	Brooklyn Center	29,949	\$15.54
	Brooklyn Park	74,743	\$22.61
	Champlin	. . . . .	\$1.29
	Corcoran	. . . . .	\$4.80
	Dayton	4,622	\$12.70
	Deephaven	. . . . .	\$0.93
	Eden Prairie	60,024	\$0.98
	Edina	47,790	\$4.59
	Golden Valley	20,314	\$9.65
	Hopkins	\$0.44
	Long Lake	1,951	\$0.34

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** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Loretto	739	.....	\$1.03
Maple Grove		.....	\$3.30
Maple Plain	1,732	.....	\$4.41
Minneapolis		.....	\$50.05
Minnetonka	49,766	.....	\$9.08
Minnetrista	6,157	.....	\$1.39
Mound		.....	\$4.00
Plymouth	69,963	.....	\$16.80
Richfield	35,053	.....	\$1.88
Rogers	8,122	.....	\$15.73
Shorewood	7,307	.....	\$0.98
Spring Lake Park	6,318	.....	\$0.20
St Louis Park	45,043	.....	\$0.48
Tonka Bay	1,378	.....	\$3.78
Wayzata	3,717	.....	\$0.44
			\$191.55
Ramsey			
Arden Hills	9,529	.....	\$0.25
Falcon Heights	5,307	.....	\$1.20
Maplewood		.....	\$0.11
Mounds View	12,162	.....	\$0.90
New Brighton	21,444	.....	\$1.56
North St Paul	11,450	.....	\$1.00
Roseville	33,497	\$18.50
Shoreview	25,023	\$0.94
St Paul	283,991	\$198.90
Vadnais Heights	12,313	\$0.60

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** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

	White Bear Lake	.....	\$1.30
	White Bear Township	10,910	\$2.20
			<hr/>
			\$227.45
Scott			
	Belle Plaine	6,501	\$13.90
	Elko New Market	.....	\$11.10
	Jordan	5,418	\$6.20
	New Prague	.....	\$0.78
	Prior Lake	22,570	\$1.94
	Savage	26,897	\$5.97
	Shakopee	.....	\$0.66
			<hr/>
			\$40.55
Washington			
	Afton	2,905	\$8.07
	Bayport	3,465	\$0.75
	Birchwood	870	\$0.32
	Forest Lake	.....	\$0.88
	Lake Elmo	.....	\$4.00
	Mahtomedi	7,718	\$5.31
	Newport	3,487	\$1.05
	Oak Park Heights	.....	\$0.25
	Oakdale	.....	\$0.36
			<hr/>
			\$20.98

Economic Development Region: 11

Total Estimated Costs to address identified needs: \$2,126.15 million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 2

County	Community /	Population**	Estimated Project Cost(s) (millions)
Beltrami			
	Bemidji	.....	\$5.60
	Bemidji Twp	3,149	\$0.35
	Blackduck	783	\$3.57
	Kelliher	322	\$1.65
	Lake View Twp - W. Lake Me	.....	\$0.75
	Northern Twp - Birchmont Be	4,614	\$0.93
	Northern Twp - Birchmont Co	4,614	\$0.95
	Northern Twp - Lavinia	4,614	\$1.65
			\$15.44
Clearwater			
	Bagley	.....	\$1.86
	Clearbrook	600	\$6.37
			\$8.23
Hubbard			
	Akeley	378	\$3.30
	Laporte	193	\$0.35
	Park Rapids	.....	\$5.80
			\$9.45
Lake of the Woods			
	Baudette	1,237	\$3.68
	Lake of the Woods County	.....	\$8.61
			\$12.29
Mahnomen			
	Mahnomen	1,526	\$1.99
	Waubun	435	\$7.00
			\$8.99

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
 Communities Providing Estimates of Future Wastewater Infrastructure Costs
 Summarized by Economic Development Regions and Counties***

Roseau

Lake Twp - Lakewood MPH	\$1.96
Lake Twp - Warroad	\$3.77
	\$5.73

Economic Development Region: 2
Total Estimated Costs to address identified needs: \$60.13 million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 3

County	Community /	Population**	Estimated Project Cost(s) (millions)
Aitkin			
	Aitkin	2,636	\$5.16
	Hill City	503	\$0.60
	McGrath	72	\$0.50
	Palisade	174	\$0.83
			\$7.09
Carlton			
	Big Lake Area SD - Fond du	. . . . .	\$14.00
	Carlton	. . . . .	\$1.20
	Cloquet	12,076	\$1.45
	Cromwell	138	\$0.45
	Moose Lake	2,715	\$4.00
	Moose Lake Windemere Area	. . . . .	\$0.66
	Scanlon	1,022	\$2.95
	Wrenshall	. . . . .	\$0.09
	Wright	. . . . .	\$1.60
			\$26.39
Cook			
	Grand Marais	. . . . .	\$0.65
			\$0.65
Itasca			
	Bigfork	473	\$1.56
	Bovey	. . . . .	\$0.29
	Calumet	367	\$2.70
	Cohasset	2,675	\$3.00
	Coleraine	1,917	\$0.60

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Deer River	1,032	.....	\$2.30
Grand Rapids		.....	\$6.80
Keewatin	1,142	.....	\$8.66
Nashwauk	983	.....	\$4.05
Taconite		.....	\$2.53
			\$32.48
Koochiching			
Big Falls	199	.....	\$1.10
International Falls	6,427	.....	\$15.00
Koochiching County - Island		.....	\$15.00
Littlefork	656	.....	\$0.13
North Koochiching SD		.....	\$12.08
Northome	202	.....	\$4.99
			\$48.29
Lake			
Beaver Bay	110	.....	\$0.08
Lake County - Larsmont		.....	\$0.98
Silver Bay	2,081	.....	\$0.85
Silver Creek Twp - Castle Dan		.....	\$3.60
			\$5.50
St Louis			
Aurora		.....	\$1.80
Babbitt		.....	\$7.40
Bibwabik		.....	\$1.01
Biwabik	1,150	.....	\$5.36
Buhl		.....	\$1.72
Canosia & Grand Lake Towns		.....	\$8.80
Central Iron Range Sanitary D		.....	\$4.50
Chisholm	4,962	.....	\$7.06

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Coleraine-Bovey-Taconite Joi		\$2.45
Cotton Twp	543	\$0.65
Crane Lake Water and Sanitar		\$7.72
Duluth - North Shore Sanitary		\$1.76
Ely	3,502	\$4.11
Eveleth	3,732	\$3.07
Floodwood		\$0.28
French Twp	445	\$0.54
Gilbert		\$10.17
Grand Lake Twp	2,746	\$1.99
Hibbing		\$1.51
Kabetogama Twp	179	\$2.60
Knife River-Larsmont Sanitar		\$9.00
Orr		\$0.10
Proctor		\$1.25
Rice Lake Twp		\$0.41
St Louis County - Midway To		\$2.30
Tower	483	\$2.83
Tower - Brietung Wastewater		\$2.33
Western Lake Superior Sanita		\$163.31
White Twp - Gardendale Utilit		\$0.32
Winton	152	\$0.45
		\$256.76
St. Louis		
Hoyt Lakes		\$1.98
		\$1.98

Economic Development Region: 3

Total Estimated Costs to address identified needs: \$379.13 million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 4

County	Community /	Population**	Estimated Project Cost(s) (millions)
Becker			
	Callaway	.....	\$0.39
	Detroit Lakes	8,507	\$64.86
	Frazee	.....	\$0.69
	Lake Park	.....	\$1.78
	Lake View Twp	1,846	\$1.50
			\$69.22
Clay			
	Barnesville	.....	\$2.21
	Dilworth	3,925	\$0.98
	Felton	131	\$0.68
	Hawley	1,936	\$1.00
	Hitterdal	205	\$0.83
	Moorhead	37,358	\$20.14
	Sabin	.....	\$0.01
			\$25.83
Douglas			
	Alexandria Lakes Area Sanitar	.....	\$5.60
	Carlos	592	\$0.01
	Miltona	437	\$2.54
	Osakis	1,599	\$9.67
			\$17.82
Grant			
	Elbow Lake	1,274	\$1.85
	Hoffman	.....	\$0.95
			\$2.80

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Otter Tail		
Clitherall	78	\$1.82
Dalton	312	\$1.54
Deer Creek	. . . . .	\$0.17
Dent	199	\$2.00
Fergus Falls	. . . . .	\$7.28
Henning	834	\$0.48
New York Mills	. . . . .	\$4.90
Ottertail	. . . . .	\$3.76
Pelican Group of Lakes Impro	. . . . .	\$16.95
Pelican Rapids	2,716	\$7.12
Perham	2,968	\$2.99
		\$49.00
Pope		
Glenwood	. . . . .	\$1.07
Pope County	. . . . .	\$1.46
Starbuck	. . . . .	\$0.23
Villard Area Lakes SD	. . . . .	\$8.91
		\$11.66
Renville		
Foxhome	85	\$3.18
		\$3.18
Stevens		
Morris	. . . . .	\$1.68
		\$1.68
Traverse		
Dumont	65	\$6.10
		\$6.10
Wilkin		
Breckenridge	3,401	\$5.20

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
 Communities Providing Estimates of Future Wastewater Infrastructure Costs
 Summarized by Economic Development Regions and Counties***

	\$5.20
Economic Development Region: 4	
Total Estimated Costs to address identified needs:	\$192.49 million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 5

County	Community /	Population**	Estimated Project Cost(s) (millions)
Cass			
	Cass County	.....	\$3.20
	Federal Dam	.....	\$1.18
	Lake Shore	.....	\$0.70
	Longville	119	\$1.46
	Walker	926	\$9.16
			\$15.70
Crow Wing			
	Baxter	7,471	\$7.06
	Crosby	.....	\$1.70
	Cross Lake Area Water & San	.....	\$0.20
	Cuyuna	.....	\$1.34
	DeGraff	.....	\$4.91
	Emily	.....	\$1.98
	Nisswa	2,261	\$5.40
	Pequot Lakes	2,162	\$1.85
			\$24.44
Morrison			
	Little Falls	.....	\$0.40
	Royalton	1,068	\$0.08
	Upsala	.....	\$0.50
			\$0.98
Todd			
	Browerville	715	\$9.99
	Burtrum	129	\$0.90
	Clarissa	765	\$3.23

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

	Eagle Bend	.....	\$1.86
	Grey Eagle	435	\$0.03
	Long Prairie	3,437	\$5.06
	Staples	3,103	\$7.98
			\$29.05
Wadena			
	Menahga	1,186	\$1.30
	Sebeka	748	\$0.90
	Verndale	470	\$2.60
	Wadena	4,179	\$13.88
			\$18.68
<hr/>			
	Economic Development Region: 5		
	Total Estimated Costs to address identified needs:	\$88.84	million
<hr/>			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 6E

County	Community /	Population**	Estimated Project Cost(s) (millions)
Kandiyohi			
	Atwater	.....	\$0.97
	Blomkest	.....	\$3.30
	Green Lake Sanitary Sewer an	.....	\$2.70
	Kandiyohi	550	\$7.70
	Spicer	1,263	\$0.66
	Whitefield Township - Svea	.....	\$1.11
	Willmar	.....	\$5.95
			\$22.39
McLeod			
	Brownton	.....	\$4.35
	Glencoe	5,654	\$23.00
	Hutchinson	14,185	\$1.11
	Lester Prairie	.....	\$6.40
	Stewart	642	\$5.08
	Winsted	2,360	\$7.47
			\$47.41
Meeker			
	Cedar Mills	.....	\$0.30
	Darwin	424	\$3.09
	Dassel	1,488	\$6.00
	Eden Valley	534	\$0.75
	Forest City Township	.....	\$0.78
	Grove City	618	\$9.91
	Litchfield	6,742	\$32.08
			\$52.90

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Renville			
	Fairfax	.....	\$0.10
	Hector	.....	\$3.00
	Renville	.....	\$0.50
	Sacred Heart	465	\$7.47
			<hr/>
			\$11.07
St Louis			
	Franklin	510	\$0.50
			<hr/>
			\$0.50
<hr/>			
	Economic Development Region:	6E	
	Total Estimated Costs to address identified needs:	\$134.27	million
<hr/>			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 6W

County	Community /	Population**	Estimated Project Cost(s) (millions)
Big Stone			
	Barry	9	\$0.27
	Ortonville	1,919	\$0.90
			\$1.17
Chippewa			
	Clara City	1,198	\$2.80
	Maynard	. . . . .	\$3.04
	Montevideo	5,343	\$0.04
			\$5.88
Lac qui Parle			
	Bellingham	229	\$0.28
	Dawson	1,424	\$5.20
	Louisburg	. . . . .	\$0.56
	Madison	. . . . .	\$7.74
			\$13.77
Swift			
	Benson	3,165	\$0.25
	De Graff	76	\$5.04
	Murdock	237	\$0.40
			\$5.69
Yellow Medicine			
	Canby	1,924	\$4.95
	Clarkfield	702	\$7.78
	Echo	309	\$2.00
	Granite Falls	2,092	\$10.65
	Hanley Falls	275	\$1.10
			\$26.48

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region:	6W		
Total Estimated Costs to address identified needs:	\$52.98	million	

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 7E

County	Community /	Population**	Estimated Project Cost(s) (millions)
Chisago			
	Almelund	.....	\$0.70
	Amador Twp - Almelund SSD	.....	\$2.74
	Center City	581	\$0.13
	Lindstrom	4,364	\$0.81
	North Branch	10,046	\$7.00
	Shafer	.....	\$1.87
	Shorewood Park Sanitary Dist	.....	\$3.00
	Taylors Falls	929	\$0.52
	Wyoming	7,730	\$2.19
			\$18.95
Isanti			
	Cambridge	8,009	\$6.97
			\$6.97
Kanabec			
	Grasston	157	\$3.01
	Mora	3,583	\$9.32
	Ogilvie	401	\$3.84
	Quamba	.....	\$2.91
			\$19.07
Mille Lacs			
	Isle	.....	\$1.97
	Onamia	.....	\$1.00
	Princeton	.....	\$4.84
			\$7.81
Pine			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Askov	417	\$4.85
Bruno	78	\$2.68
Pine City	. . . . .	\$20.00
Rutledge	301	\$1.29
Sandstone	2,763	\$17.83
Willow River	401	\$2.23
		\$48.88

Economic Development Region: 7E
Total Estimated Costs to address identified needs: \$101.68 million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 7W			
County	Community /	Population**	Estimated Project Cost(s) <i>(millions)</i>
Benton			
	Foley	2,576	\$18.75
	Sauk Rapids	12,635	\$5.07
			\$23.82
Sherburne			
	Big Lake	. . . . .	\$19.00
	Clear Lake - Clearwater Sewer	. . . . .	\$1.45
	Elk River	22,790	\$19.59
	Zimmerman	5,091	\$5.10
			\$45.13
Stearns			
	Albany	2,501	\$2.85
	Brooten	753	\$1.95
	Cold Spring	3,960	\$10.58
	Kimball	716	\$4.15
	Melrose	. . . . .	\$3.50
	New Munich	318	\$0.58
	Sartell	15,175	\$34.55
	Sauk Centre	. . . . .	\$1.60
	St Cloud	65,986	\$73.10
	St Joseph	6,383	\$5.51
	St Martin	312	\$5.73
	St Stephen	808	\$9.52
	Waite Park	6,729	\$0.25
			\$153.86
Wright			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Albertville	6,790	\$0.74
Annandale		\$1.85
Buffalo	15,127	\$4.91
Cokato	2,749	\$7.00
Delano	5,401	\$1.00
Hanover	2,171	\$10.47
Howard Lake	1,506	\$12.13
Monticello	12,506	\$31.61
Montrose	2,726	\$8.71
Rockford	3,890	\$1.30
Silver Creek Twp		\$12.50
St Michael	15,896	\$24.05
Waverly		\$9.61
		\$125.88

Economic Development Region: 7W
Total Estimated Costs to address identified needs: \$348.69 million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 8

County	Community /	Population**	Estimated Project Cost(s) (millions)
Cottonwood			
	Bingham Lake	.....	\$0.24
	Mountain Lake	2,270	\$11.48
			\$11.72
Jackson			
	Heron Lake	.....	\$1.60
	Jackson	3,300	\$1.45
	Lakefield	1,641	\$22.48
			\$25.54
Lincoln			
	Ivanhoe	542	\$3.44
	Lake Benton	674	\$2.74
	Lincoln Pipestone	.....	\$2.70
			\$8.88
Lyon			
	Balaton	676	\$0.03
	Cottonwood	992	\$0.67
	Ghent	.....	\$1.58
	Marshall	13,534	\$29.46
	Minneota	.....	\$5.00
	Tracy	2,056	\$15.40
			\$52.14
Murray			
	Lime Creek	.....	\$0.56
			\$0.56
Murray			
	Currie	.....	\$1.85

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

	Hadley	73	\$1.15
	Slayton	2,162	\$0.06
			<hr/>
			\$3.06
Nobles			
	Adrian	. . . . .	\$2.02
	Worthington	12,531	\$3.61
			<hr/>
			\$5.63
Pipestone			
	Ihlen	51	\$0.60
	Pipestone	4,304	\$22.05
	Trosky	102	\$3.00
			<hr/>
			\$25.65
Redwood			
	Lamberton	938	\$4.95
	Lucan	180	\$2.45
	Morgan	1,023	\$7.80
	Seaforth	. . . . .	\$0.82
	Walnut Grove	812	\$4.90
			<hr/>
			\$20.92
Rock			
	Hardwick	157	\$0.02
	Luverne	4,690	\$91.88
			<hr/>
			\$91.90
<hr/>			
	Economic Development Region: 8		
	Total Estimated Costs to address identified needs:	\$246.00	million
<hr/>			

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region (Number) 9

County	Community /	Population**	Estimated Project Cost(s) (millions)
Blue Earth			
	Amboy	.....	\$0.08
	Lake Crystal	2,540	\$1.45
	Mankato	38,725	\$26.44
	South Bend Twp	.....	\$3.56
	Vernon Center	.....	\$0.50
			\$32.03
Brown			
	Comfrey	.....	\$3.44
	Essig	.....	\$1.95
	Evan	31	\$0.03
	Sleepy Eye	3,597	\$5.00
	Springfield	.....	\$0.63
			\$11.04
Faribault			
	Blue Earth	.....	\$6.98
	Easton	.....	\$0.53
	Elmore	657	\$1.00
	Faribault County	.....	\$1.07
	Tri-City Joint Sewer Board	.....	\$0.05
	Winnebago	.....	\$1.93
			\$11.55
Le Sueur			
	Elysian	.....	\$0.20
	Lake Washington Sanitary Dis	.....	\$9.25
	Le Center	2,431	\$7.54

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

	Le Sueur	4,084	\$0.30
	Waterville	1,808	\$15.83
			\$33.12
Martin	Emore	. . . . .	\$0.10
	Fairmont	. . . . .	\$0.60
	Ormsby	. . . . .	\$3.60
	Trimont	619	\$9.96
			\$14.26
Nicollet	Lafayette	577	\$0.10
	North Mankato	. . . . .	\$0.97
			\$1.07
Sibley	Henderson	814	\$1.00
	New Auburn	577	\$0.25
			\$1.25
Waseca	Janesville	. . . . .	\$0.42
	Waldorf	175	\$12.00
	Waseca	9,405	\$5.60
			\$18.03
Watonwan	Butterfield	514	\$2.00
	La Salle	. . . . .	\$3.32
	Lewisville	229	\$0.50
	Odin	. . . . .	\$3.48
	St James	4,573	\$2.80
			\$12.10

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 1: 2015 Wastewater Infrastructure Needs Survey (WINS)
Communities Providing Estimates of Future Wastewater Infrastructure Costs
Summarized by Economic Development Regions and Counties***

Economic Development Region: 9		
Total Estimated Costs to address identified needs:	\$134.45	million

* Please note that due to alpha characters in the EDR identifiers, the order in which EDRs are reported is: 1, 10, 11, 2, 3, 4, 5, 6E, 6W, 7E, 7W, 8, 9

** Population from 2010 Census.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

Adams	COUNTY: Mower	POPULATION*:	800	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$41,806
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
SAP - 050 - 706 - 05		0.014		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.014	\$914		\$2.05	0.005%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Adams as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.014 (million)</i>

Adrian	COUNTY: Nobles	POPULATION*:	1,158	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$44,313
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Rehabilitation		2.02		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.02	\$131,914		\$236.03	0.533%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Adrian as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>2.02 (million)</i>

Afton	COUNTY: Washington	POPULATION*:	2,905	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$100,926
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Afton		4.035		SFY 2016 PPL Treatment Facilities Project / Rank: 45	
Afton		4.035		SFY 2016 PPL Sewer System Project / Rank: 45	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
8.07	\$527,004		\$412.80	0.409%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Afton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>8.07 (million)</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

Aitkin	COUNTY: Aitkin	POPULATION*:	2,636	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,294
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2nd Ave SW Sewer/water		1.511		SFY 2016 PPL Sewer System Project / Rank:	185
Industrial Park/NE Sewer Improvements (County 54)		0.25		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
1.761	\$115,000	\$74.95	0.196%		
--- 5 - 10 yr. Need ---					
Ripple River Siphon Crossing		0.368		Sewer System Project	
3rd Street NW Utility Improvements		2.088		Sewer System Project	
1st Avenue NE Utility Improvements		0.691		Sewer System Project	
3rd Street NE Sewer Project		0.25		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
3.397	\$221,838	\$144.57	0.378%		
Overall cost of projects identified as of January 1, 2016 by the community of Aitkin as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.158 (million)					

Akeley	COUNTY: Hubbard	POPULATION*:	378	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$27,143
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Waste Water Treatment Expansion and Rehabilitation		1.5		Wastewater Treatment Facilities Project	
Waste Water Collection Expansion and Rehabilitation		1.5		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
3	\$195,912	\$645.86	2.379%		
--- 5 - 10 yr. Need ---					
project not named		0.15		Wastewater Treatment Facilities Project	
not named		0.15		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.3	\$19,591	\$64.59	0.238%

*Overall cost of projects identified as of January 1, 2016 by the community of Akeley
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.3 (million)*

Albany	COUNTY: Stearns	POPULATION*: 2,501	MEDIAN HOUSEHOLD INCOME (MHI)*: \$51,667
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Golf Course	0.35	Sewer System Project
2002-03 Capital Impr. Project (Lake Ave - 1st St to 3rd St)	2.5	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.85	\$186,117	\$156.84	0.304%

*Overall cost of projects identified as of January 1, 2016 by the community of Albany
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.85 (million)*

Albert Lea	COUNTY: Freeborn	POPULATION*: 18,046	MEDIAN HOUSEHOLD INCOME (MHI)*: \$35,792
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Install Density Current Baffles	0.15	Wastewater Treatment Facilities Project
Rehabilitate Digester Heating System	0.25	Wastewater Treatment Facilities Project
Northwest Water and Sewer Extension	1.8	Sewer System Project
WWTP Septic Receiving Station/Grit Building Renovatio	2.55	Wastewater Treatment Facilities Project
Install Hazardous Environment Gas Detectors	0.23	Wastewater Treatment Facilities Project
Slipline Horseshoe Sanitary Sewer	0.15	Sewer System Project
Lincoln Avenue	0.15	Sewer System Project
Effluent Filter Replacement	0.1	Wastewater Treatment Facilities Project
Replace Aeration Blower	0.55	Wastewater Treatment Facilities Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

East Side Sewer System Upgrades	1.4	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.33	\$478,679	\$50.79	0.142%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Albert Lea as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>7.33 (million)</i>

Albert Lea - Stables Ar	COUNTY: Freeborn	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Albert Lea - Stables Area		5.4	SFY 2016 PPL Treatment Facilities Project / Rank: 73
Albert Lea - Stables Area		1.778	SFY 2016 PPL Sewer System Project / Rank: 73
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.178	\$468,752		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Albert Lea - Stables Area as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>7.178 (million)</i>

Albertville	COUNTY: Wright	POPULATION*:	6,790	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$84,661
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 5 - 10 yr. Need ---					
Future Projects (Sanitary Sewer)		0.74		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
0.74	\$48,325	\$19.37		0.023%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Albertville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.74 (million)</i>

Alexandria Lakes Area	COUNTY: Douglas	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

ALASD - Digester	2.205	SFY 2016 PPL Treatment Facilities Project / Rank:	190
ALASD - AGA Drive	0.706	SFY 2016 PPL Sewer System Project / Rank:	188
ALASD - CR82	1.367	SFY 2016 PPL Sewer System Project / Rank:	189
ALASD - TH29	1.325	SFY 2016 PPL Sewer System Project / Rank:	191
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
5.603	\$365,899		

Overall cost of projects identified as of January 1, 2016 by the community of Alexandria Lakes Area Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.603 (million)

Almelund	COUNTY: Chisago	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Amador Township SSD Community of Almelund		0.35	SFY 2016 PPL Sewer System Project / Rank: 239
Amador Township SSD Community of Almelund		0.35	SFY 2016 PPL Treatment Facilities Project / Rank: 239
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.7	\$45,713		

Overall cost of projects identified as of January 1, 2016 by the community of Almelund as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.7 (million)

Amador Twp - Almelun	COUNTY: Chisago	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Amador Twp - Almelund SSD		1.37	SFY 2016 PPL Treatment Facilities Project / Rank: 239
Amador Twp - Almelund SSD		1.37	SFY 2016 PPL Sewer System Project / Rank: 239
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
2.74	\$178,933		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Amador Twp - Almelund SSD
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.74 (million)*

Amboy	COUNTY: Blue Earth	POPULATION*: 577	MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,313	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
West Maine Street Sewer Lateral Lining		0.083		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.083	\$5,420	\$14.10	0.034%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Amboy as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.083 (million)</i>				

Andover	COUNTY: Anoka	POPULATION*: 30,371	MEDIAN HOUSEHOLD INCOME (MHI)*: \$89,803	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Aztec Estates Lift Station Upgrades		0.11		Sewer System Project
Crosstown Boulevard Trunk sewer line		0.5		Sewer System Project
Yellow Pine lift station		0.65		Sewer System Project
On-Going New Development Projects		0.6		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.86	\$121,466	\$11.00	0.012%	
--- 5 - 10 yr. Need ---				
Rural Reserve Trunk Sanitary Sewer		3.5		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
3.5	\$228,564	\$20.71	0.023%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Andover as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.36 (million)</i>				

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Andover

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

Annandale	COUNTY: Wright	POPULATION*:	3,238	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$44,923
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Annandale		0.626795		SFY 2016 PPL Sewer System Project / Rank:	208
Annandale		1.2282		SFY 2016 PPL Sewer System Project / Rank:	208
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
1.854995	\$121,139	\$68.48	0.152%		
Overall cost of projects identified as of January 1, 2016 by the community of Annandale as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.855 (million)					

Anoka	****	COUNTY: Anoka	POPULATION*:	17,357	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$46,368
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
2015 SRP Monroe Street			0.166		Sewer System Project	
2016 SRP			0.25		Sewer System Project	
38th Avenue Trunk Sanitary Sewer Capacity Project			2.5		Sewer System Project	
2015 SRP Slab Town			0.279		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI			
3.195	\$208,646	\$24.37	0.053%			
Overall cost of projects identified as of January 1, 2016 by the community of Anoka as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.195 (million)						

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Anoka

Apple Valley	****	COUNTY: Dakota	POPULATION*:	49,020	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$78,767
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Sanitary Sewer Replacement			1.4		Sewer System Project	
Sanitary Lift Station #5			0.85		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Sanitary Sewer Replacement	1.5	Sewer System Project
Sanitary Sewer Replacement Pal Hills 4, JCRR	0.7	Sewer System Project
Sanitary Sewer Replacement	1.3	Sewer System Project
Sanitary Sewer Replacement - Palomino Hills 3 & 4	0.64	Sewer System Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
6.39	\$417,293	\$19.12	0.024%

Overall cost of projects identified as of January 1, 2016 by the community of Apple Valley as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.39 (million)

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Apple Valley

Arden Hills **** **COUNTY: Ramsey** **POPULATION*: 9,529** **MEDIAN HOUSEHOLD INCOME (MHI)*: \$87,581**
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Reconstruct Lift Station # 11	0.25	Sewer System Project
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Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.25	\$16,326	\$4.32	0.005%

Overall cost of projects identified as of January 1, 2016 by the community of Arden Hills as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.25 (million)

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Arden Hills

Askov COUNTY: Pine **POPULATION*: 417** **MEDIAN HOUSEHOLD INCOME (MHI)*: \$31,691**
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

New Treatment Facility	4.85	Wastewater Treatment Facilities Project
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Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
4.85	\$316,725	\$1,140.21	3.598%

Overall cost of projects identified as of January 1, 2016 by the community of Askov as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.85 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community**

Atwater	COUNTY: Kandiyohi	POPULATION*:	1,012	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$50,395
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Atwater		0.968237		SFY 2016 PPL Sewer System Project / Rank:	147
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.968237	\$63,230		\$129.33	0.257%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Atwater as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.9682 (million)</i>					

Aurora	COUNTY: St Louis	POPULATION*:	1,682	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2015 Street and Infrastructure Improvement		1.802		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.802	\$117,678				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Aurora as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.802 (million)</i>					

Aurora Twsp - Bixby	COUNTY: Steele	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Unsewered - New Treatment		0.113		Wastewater Treatment Facilities Project	
Unsewered - New Collection		0.112		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.225	\$14,693				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Aurora Twsp - Bixby as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.225 (million)</i>					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability**
Alphabetical by Name of Community

Austin	COUNTY: Mower	POPULATION*: 24,559	MEDIAN HOUSEHOLD INCOME (MHI)*: \$39,741
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Phosphorus reduction	1	Wastewater Treatment Facilities Project	
Crane Force Main	0.075	Sewer System Project	
Lift Station Alarm Upgrades	0.1	Sewer System Project	
Nelson Lift Station Rehab	0.1	Sewer System Project	
Turtle Creek 2	1	SFY 2016 PPL Sewer System Project / Rank: 165	
Force main replacement - Hope Street	0.75	Sewer System Project	
4th Drive SW Sewer Extension	0.075	Sewer System Project	
Cedar River Siphons	0.1	Sewer System Project	
Nitrification Building Expansion	2.5	SFY 2016 PPL Treatment Facilities Project / Rank: 165	
Standby Power	1	Wastewater Treatment Facilities Project	
Southeast Interceptor Repairs	0.2	Sewer System Project	
Dobbins Creek Lift Station	0.1	Sewer System Project	
Admin and Laboratory Improvements	0.5	Wastewater Treatment Facilities Project	
Jetter Facility	0.1	Wastewater Treatment Facilities Project	
10th Drive SE	0.15	Sewer System Project	
Sludge Storage Building Expansion	2	Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
9.75	\$636,715	\$52.42	0.132%
Overall cost of projects identified as of January 1, 2016 by the community of Austin			
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs			9.75 (million)

Austin Twp	COUNTY: Mower	POPULATION*: 991	MEDIAN HOUSEHOLD INCOME (MHI)*: \$55,234
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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--- Current Need ---

Austin Twp - Turtle Creek 2	0.315	SFY 2016 PPL Sewer System Project / Rank: 110
Austin Twp - Turtle Creek 2	0.315	SFY 2016 PPL Treatment Facilities Project / Rank: 110

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.63	\$41,142	\$87.33	0.158%

Overall cost of projects identified as of January 1, 2016 by the community of Austin Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.63 (million)

Babbitt COUNTY: St Louis POPULATION*: 1,300 MEDIAN HOUSEHOLD INCOME (MHI)*: \$37,500
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Wastewater Treatment Facility Improvements	7.4	SFY 2016 PPL Treatment Facilities Project / Rank: 236
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.4	\$483,250	\$517.15	1.379%

Overall cost of projects identified as of January 1, 2016 by the community of Babbitt as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.4 (million)

Bagley COUNTY: Clearwater POPULATION*: 1,416 MEDIAN HOUSEHOLD INCOME (MHI)*: \$29,833
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Bagley	1.861	SFY 2016 PPL Sewer System Project / Rank: 146
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.861	\$121,531	\$141.13	0.473%

Overall cost of projects identified as of January 1, 2016 by the community of Bagley as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.861 (million)

Balaton COUNTY: Lyon POPULATION*: 676 MEDIAN HOUSEHOLD INCOME (MHI)*: \$40,870
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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--- Current Need ---

Sewer Main Lining Influent Structure 0.03 Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.03	\$1,959	\$4.84	0.012%

*Overall cost of projects identified as of January 1, 2016 by the community of Balaton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.03 (million)*

Barnesville	COUNTY: Clay	POPULATION*:	2,524	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$58,409
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Barnesville 2.210465 SFY 2016 PPL Sewer System Project / Rank: 117

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.210465	\$144,352	\$115.79	0.198%

*Overall cost of projects identified as of January 1, 2016 by the community of Barnesville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.2105 (million)*

Barry	COUNTY: Big Stone	POPULATION*:	9	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$62,083
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Unsewered Collection and Treatment - Collection 0.135 Sewer System Project
Unsewered Collection and Treatment - Treatment 0.135 Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.27	\$17,632	\$634.76	1.022%

*Overall cost of projects identified as of January 1, 2016 by the community of Barry
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.27 (million)*

Baudette	COUNTY: Lake of the	POPULATION*:	1,237	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,833
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community**

--- 5 - 10 yr. Need ---

Sewer System Rehab 3.679 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.679	\$240,254	\$372.17	0.812%

Overall cost of projects identified as of January 1, 2016 by the community of Baudette as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.679 (million)

Baxter	COUNTY: Crow Wing	POPULATION*: 7,471	MEDIAN HOUSEHOLD INCOME (MHI)*: \$59,643
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Clearwater Road	1	Sewer System Project
Lyndale Improvements	0.342	Sewer System Project
North Forestview	0.5	Sewer System Project
Olivewood	0.32	Sewer System Project
South Forestview	0.73	Sewer System Project
Eagle Ridge Area	0.72	Sewer System Project
Brentwood Circle	0.052	Sewer System Project
Cypress South	0.6	Sewer System Project
South Sanitary Sewer & Camwood Trail & Chestnut Driv	1.6	Sewer System Project
Jadewood & Jewelwood Area Improvements	0.24	Sewer System Project
Dellwood Drive and Novotny Road Extension	0.2	Sewer System Project
Isle Drive South Extension	0.2	Sewer System Project
Ashley-Baywood	0.56	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.064	\$461,308	\$132.81	0.223%

Overall cost of projects identified as of January 1, 2016 by the community of Baxter as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.064 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Bayport	****	COUNTY: Washington	POPULATION*:	3,465	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$57,852
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
2015 Manhole Rehabilitation			0.2		Sewer System Project	
2016 Manhole Rehabilitation			0.15		Sewer System Project	
Sanitary Sewer Manhole Rehab			0.2		Sewer System Project	
2012 Sanitary Sewer Lining			0.2		Sewer System Project	
Subtotal of Cost Estimates (millions)		Project Annual Debt Service**		Annual 20 yr. Household Cost***		Annual Household Cost as % MHI
0.75		\$48,978		\$31.60		0.055%
Overall cost of projects identified as of January 1, 2016 by the community of Bayport as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs						0.75 (million)
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Bayport						

Beaver Bay		COUNTY: Lake	POPULATION*:	110	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$25,625
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Wastewater Treatment Renovations Barr-Project No. 23/3			0.075		Sewer System Project	
Subtotal of Cost Estimates (millions)		Project Annual Debt Service**		Annual 20 yr. Household Cost***		Annual Household Cost as % MHI
0.075		\$4,898		\$30.83		0.120%
Overall cost of projects identified as of January 1, 2016 by the community of Beaver Bay as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs						0.075 (million)

Belle Plaine		COUNTY: Scott	POPULATION*:	6,501	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$70,375
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Annual Infrastructure Rehabilitation			1		Sewer System Project	
Wastewater Treatment Plant Expansion			10.5		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)		Project Annual Debt Service**		Annual 20 yr. Household Cost***		Annual Household Cost as % MHI
11.5		\$750,997		\$261.67		0.372%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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--- 5 - 10 yr. Need ---

South Ravine Interceptor Sewer 2.4 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.4	\$156,730	\$54.61	0.078%

*Overall cost of projects identified as of January 1, 2016 by the community of Belle Plaine
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 13.9 (million)*

Bellingham COUNTY: Lac qui Parle POPULATION*: 229 MEDIAN HOUSEHOLD INCOME (MHI)*: \$33,472

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Lift Station Rehab 0.1 Sewer System Project

Dredgings & Reprapping 0.175 Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.275	\$17,959	\$117.98	0.352%

*Overall cost of projects identified as of January 1, 2016 by the community of Bellingham
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.275 (million)*

Bemidji COUNTY: Beltrami POPULATION*: 13,354 MEDIAN HOUSEHOLD INCOME (MHI)*: \$33,974

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Bar Screen 0.3 Wastewater Treatment Facilities Project

Sludge Storage Tank with mixer 3.4 Wastewater Treatment Facilities Project

Painting Primary Clarifiers 0.1 Wastewater Treatment Facilities Project

Instrumentation and Control 0.05 Sewer System Project

Biological Phosphorus Removal 1.15 Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5	\$326,520	\$47.56	0.140%

--- 5 - 10 yr. Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Disinfection (U.V.)	0.6	Wastewater Treatment Facilities Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.6	\$39,182	\$5.71	0.017%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Bemidji as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				<i>5.6 (million)</i>

Bemidji Twp	COUNTY: Beltrami	POPULATION*:	3,149	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$57,093
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Bemidji Twp		0.175		SFY 2016 PPL Sewer System Project / Rank: 58	
Bemidji Twp		0.175		SFY 2016 PPL Treatment Facilities Project / Rank: 58	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.35	\$22,856	\$16.25	0.028%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Bemidji Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.35 (million)</i>

Benson	COUNTY: Swift	POPULATION*:	3,165	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$37,773
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
21st Street to 22nd Street Sewer Replacement		0.2		Sewer System Project	
I & I Benson Minnesota		0.05		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.25	\$16,326	\$8.59	0.023%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Benson as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.25 (million)</i>

Bethel	COUNTY: Anoka	POPULATION*:	470	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$44,583
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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--- Current Need ---

Treatment Plant Expansion	2	SFY 2016 PPL Treatment Facilities Project / Rank:	68
Phase III Wastewater Expansion	2	Sewer System Project	
Bethel	0.19	SFY 2016 PPL Treatment Facilities Project / Rank:	68

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.19	\$273,624	\$1,207.16	2.708%

Overall cost of projects identified as of January 1, 2016 by the community of Bethel as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.19 (million)

Bibwabik	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

City Wide Reconstruction	1.012	Sewer System Project	
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.012	\$66,088		

Overall cost of projects identified as of January 1, 2016 by the community of Bibwabik as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.012 (million)

Big Falls	COUNTY: Koochiching	POPULATION*:	199	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,167
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Phase II - Sanitary Sewer Reconstruction	1.1	Sewer System Project	
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.1	\$71,834	\$355.23	1.140%

Overall cost of projects identified as of January 1, 2016 by the community of Big Falls as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.1 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Big Lake	COUNTY: Sherburne	POPULATION*:	9,867	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$66,200
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Big Lake		19		SFY 2016 PPL Treatment Facilities Project / Rank:	225
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
19	\$1,240,777		\$306.20	0.463%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Big Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					19 (million)

Big Lake Area SD - Fon	COUNTY: Carlton	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Big Lake Area SD - Fond du Lac		14		SFY 2016 PPL Sewer System Project / Rank:	265
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
14	\$914,257				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Big Lake Area SD - Fond du Lac as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					14 (million)

Bigfork	COUNTY: Itasca	POPULATION*:	473	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$22,917
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Bigfork		1.551		SFY 2016 PPL Treatment Facilities Project / Rank:	271
Ottum Ave I/I		0.006		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.557	\$101,678		\$367.51	1.604%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Bigfork as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					1.557 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Bingham Lake	COUNTY: Cottonwood	POPULATION*:	155	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$62,917
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
TH 60 Sewer Relocation		0.239		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.239	\$15,608		\$197.84	0.314%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Bingham Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.239 (million)</i>					

Birchwood	****	COUNTY: Washington	POPULATION*:	870	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---					
Installation of Permanent Generator at Lift Station #2			0.05	Sewer System Project	
Expansion of wet well capacity at lift station #2			0.15	Sewer System Project	
Lift station Pump Replacement			0.022	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.222	\$14,497				
--- 5 - 10 yr. Need ---					
Sanitary Sewer Rehabilitation			0.1	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.1	\$6,530				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Birchwood as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.322 (million)</i>					

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Birchwood

Biwabik	COUNTY: St Louis	POPULATION*:	1,150	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$32,969
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Pond Expansion - 1 Primary, 1 Secondary		5.364		Wastewater Treatment Facilities Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5.364	\$350,291	\$471.24	1.429%

*Overall cost of projects identified as of January 1, 2016 by the community of Biwabik
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.364 (million)*

Blackduck	COUNTY: Beltrami	POPULATION*:	783	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$24,934
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab. Collection System		0.4		SFY 2016 PPL Sewer System Project / Rank:	71
Blackduck		1.587		SFY 2016 PPL Treatment Facilities Project / Rank:	71
Blackduck		1.587		SFY 2016 PPL Sewer System Project / Rank:	71

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.574	\$233,397	\$517.38	2.075%

*Overall cost of projects identified as of January 1, 2016 by the community of Blackduck
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.574 (million)*

Blomkest	COUNTY: Kandiyohi	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Addendum No. 1 to city of Blomkest and Svea Wastewater		3.3		Sewer System Project	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.3	\$215,503		

*Overall cost of projects identified as of January 1, 2016 by the community of Blomkest
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.3 (million)*

Blooming Prairie	COUNTY: Steele	POPULATION*:	1,919	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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2nd & 3rd Street South Sewer Rehabilitation 2.922 SFY 2016 PPL Sewer System Project / Rank: 129

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
2.922 \$190,818 \$202.76

*Overall cost of projects identified as of January 1, 2016 by the community of Blooming Prairie
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.922 (million)*

Bloomington *** COUNTY: Hennepin POPULATION*: 82,962 MEDIAN HOUSEHOLD INCOME (MHI)*: \$60,150

Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

18th Avenue Sewer Upgrades (Replaces CIP-01) 4.15 Sewer System Project

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
4.15 \$271,012 \$6.49 0.011%

*Overall cost of projects identified as of January 1, 2016 by the community of Bloomington
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.15 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Bloomington

Blue Earth COUNTY: Faribault POPULATION*: 3,368 MEDIAN HOUSEHOLD INCOME (MHI)*: \$37,757

Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Street Improvement Plan 0.915 Sewer System Project

Walnut Street 0.449 Sewer System Project

Sailor Street Reconstructon 1.04 Sewer System Project

Main Street Reconstruction 0.202 Sewer System Project

WWTF Rehabilitation 4.375 Wastewater Treatment Facilities Project

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
6.981 \$455,888 \$259.68 0.688%

*Overall cost of projects identified as of January 1, 2016 by the community of Blue Earth
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.981 (million)*

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

Borup	COUNTY: Norman	POPULATION*:	97	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$58,750
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Borup		1.25		SFY 2016 PPL Treatment Facilities Project / Rank:	89
Borup		1.25		SFY 2016 PPL Sewer System Project / Rank:	89
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.5	\$163,260		\$2,825.66	4.810%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Borup as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.5 (million)</i>					

Bovey	COUNTY: Itasca	POPULATION*:	843	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,859
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2017 Capital Improvement Project		0.292		SFY 2016 PPL Sewer System Project / Rank:	131
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.292	\$19,069		\$45.77	0.128%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Bovey as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.292 (million)</i>					

Breckenridge	COUNTY: Wilkin	POPULATION*:	3,401	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$46,223
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Phosphorus Reduction		1		Wastewater Treatment Facilities Project	
Sanitary Sewer Rehabilitation		4.2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5.2	\$339,581		\$183.67	0.397%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

*Overall cost of projects identified as of January 1, 2016 by the community of Breckenridge
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.2 (million)*

Brooklyn Center ****	COUNTY: Hennepin	POPULATION*: 29,949	MEDIAN HOUSEHOLD INCOME (MHI)*: \$48,083
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Interstate Area Improvements		2.508	Sewer System Project
Evergreen Park Area Improvements		2.542	Sewer System Project
Lift Station 9 Force Main Replacement		0.243	Sewer System Project
63rd Avenue N. Reconstruction		1.141	Sewer System Project
51st Avenue (at Brooklyn Blvd)		0.116	Sewer System Project
Firehouse Park Area Improvements		3.07	Sewer System Project
Grandview Park Area Improvements		2.748	Sewer System Project
Sanitary Sewer Lining Along Mississippi River		0.819	Sewer System Project
Humboldt Avenue N. (53rd to 57th) Reconstruction		0.412	Sewer System Project
Emergency Generator Replacement for lift Station No 2		0.199	Sewer System Project
Palmer Lake West Neighborhood Reconstruction		1.742	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
15.54	\$1,014,825	\$79.29	0.165%

*Overall cost of projects identified as of January 1, 2016 by the community of Brooklyn Center
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 15.54 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Brooklyn Center

Brooklyn Park ****	COUNTY: Hennepin	POPULATION*: 74,743	MEDIAN HOUSEHOLD INCOME (MHI)*: \$61,537
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
General Rehab 2013-2018		0.8	Sewer System Project
Replacement of Water Metering System 2019-24		1.75	Sewer System Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

General Rehab 2019-2029	6	Sewer System Project
Growth area 2013-2018	1.2	Sewer System Project
Final Growth Area 2019-2039 Build-Out	3	Sewer System Project
2014-18 Replacement of water metering system	1.86	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
14.61	\$954,092	\$31.68
<i>--- 5 - 10 yr. Need ---</i>		
Replacement of water metering system 2025 -	2	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
2	\$130,608	\$4.34
<i>--- 10 - 20 yr. Need ---</i>		
General Rehab	6	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
6	\$391,824	\$13.01
<i>Overall cost of projects identified as of January 1, 2016 by the community of Brooklyn Park as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 22.61 (million)</i>		

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Brooklyn Park

Brooten	COUNTY: Stearns	POPULATION*:	753	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
<i>--- Current Need ---</i>				
Industrial Park Sewer Upgrades		0.35		Sewer System Project
		1.6		SFY 2016 PPL Sewer System Project / Rank: 100
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.95	\$127,343	\$355.93		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Brooten as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.95 (million)</i>				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Browerville	COUNTY: Todd	POPULATION*:	715	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,515
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Browerville - Phase 2		6.2056		SFY 2016 PPL Treatment Facilities Project / Rank:	211
Wastewater Treatment Facility Improvements		2.65		Wastewater Treatment Facilities Project	
Sanitary Sewer & Watermain Improvement Project		1.133		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
9.9886	\$652,296		\$1,768.27	4.364%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Browerville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.9886 (million)</i>					

Brownton	COUNTY: McLeod	POPULATION*:	709	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$55,114
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2016 Sanitary Sewer USDA-RD Project		2.6		SFY 2016 PPL Sewer System Project / Rank:	106
WWTF Phosphorous Reduction Improvements		0.35		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.95	\$192,647		\$502.56	0.912%	
--- 5 - 10 yr. Need ---					
Phase II Sanitary Sewer USDA-RD Improvements		1.4		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.4	\$91,426		\$238.50	0.433%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Brownton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.35 (million)</i>					

Bruno	COUNTY: Pine	POPULATION*:	78	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$32,917
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Bruno	1.341	SFY 2016 PPL Sewer System Project / Rank:	287
Bruno	1.341	SFY 2016 PPL Treatment Facilities Project / Rank:	287
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
2.682	\$175,145	\$3,090.80	9.390%
Overall cost of projects identified as of January 1, 2016 by the community of Bruno as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.682 (million)			

Buffalo	COUNTY: Wright	POPULATION*:	15,127	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$63,533
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---					
Capital Improvement Plan (6 - 10 year)		1.38		SFY 2016 PPL Sewer System Project / Rank:	248
Capital Improvement Plan (1-5 Years)		2.54		SFY 2016 PPL Sewer System Project / Rank:	248
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
3.92	\$255,992	\$38.67	0.061%		
--- 5 - 10 yr. Need ---					
Capital Improvement Plan (11-15 year)		0.99		SFY 2016 PPL Sewer System Project / Rank:	248
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.99	\$64,651	\$9.77	0.015%		
Overall cost of projects identified as of January 1, 2016 by the community of Buffalo as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.91 (million)					

Buhl	COUNTY: St Louis	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---					
Buhl		1.7155		SFY 2016 PPL Sewer System Project / Rank:	174
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
1.7155	\$112,029				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Buhl
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.7155 (million)*

Burnsville	****	COUNTY: Dakota	POPULATION*: 60,699	MEDIAN HOUSEHOLD INCOME (MHI)*: \$63,688
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Washburn Sanitary Lift Rehab			0.36	Sewer System Project
Bluebill Bay Lift Station Rehab			0.3	Sewer System Project
Annual Sanitary Mainline Rehab Project			0.165	Sewer System Project
Annual Sanitary Mainline Rehab Project			0.165	Sewer System Project
McAndrews Lift Station Rehab			0.8	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.79		\$116,894	\$4.08	0.006%

*Overall cost of projects identified as of January 1, 2016 by the community of Burnsville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.79 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Burnsville

Burtrum		COUNTY: Todd	POPULATION*: 129	MEDIAN HOUSEHOLD INCOME (MHI)*: \$28,889
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Service to Unsewered Area			0.9	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.9		\$58,774	\$539.76	1.868%

*Overall cost of projects identified as of January 1, 2016 by the community of Burtrum
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.9 (million)*

Butterfield		COUNTY: Watonwan	POPULATION*: 514	MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,563
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

Sewer Rehab/Replacement	2	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
2	\$130,608	\$473.98
		<i>Annual Household Cost as % MHI</i>
		1.140%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Butterfield as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
		<i>2 (million)</i>

Caledonia	COUNTY: Houston	POPULATION*:	2,880	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$36,802
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
WWTP Rehabilitation and Upgrade		3		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
3	\$195,912	\$136.37	0.371%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Caledonia as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>3 (million)</i>

Callaway	COUNTY: Becker	POPULATION*:	231	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,156
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Lining and Manhole Rehabilitation Phase		0.385		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.385	\$25,142	\$235.71	0.522%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Callaway as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>0.385 (million)</i>

Calumet	COUNTY: Itasca	POPULATION*:	367	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Reconstruction		0.595		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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SE Area Utility Extensions	0.507	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.102	\$71,965		
--- 5 - 10 yr. Need ---			
Sanitary Sewer Reconstruction	1.595	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.595	\$104,160		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Calumet as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.697 (million)</i>			

Cambridge	COUNTY: Isanti	POPULATION*:	8,009	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$49,189
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2020 Street Improvements		0.457		Sewer System Project	
2016 Paul's Lake Trunk Utilities		2.673		Sewer System Project	
2015 Street Improvements		0.638		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
3.768	\$246,066	\$63.80	0.130%		
--- 5 - 10 yr. Need ---					
2022 Street Improvements		0.127		Sewer System Project	
2011 Flanders Street		0.162		Sewer System Project	
2009 North Flanders Street		0.264		Sewer System Project	
2009 North Garfield Street		0.132		Sewer System Project	
2011 North Main Street Trunk Utilities		2.521		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
3.206	\$209,365	\$54.29	0.110%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Cambridge as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.974 (million)</i>					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

Canby	COUNTY: Yellow Medi	POPULATION*:	1,924	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$42,898
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Pump Station Improvement		0.75		SFY 2016 PPL Sewer System Project / Rank:	39
Infrastructure Replacement Project - Phase II		4.2		SFY 2016 PPL Sewer System Project / Rank:	39
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
4.95	\$323,255		\$330.60	0.771%	
Overall cost of projects identified as of January 1, 2016 by the community of Canby as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					4.95 (million)

Cannon Falls	COUNTY: Goodhue	POPULATION*:	4,073	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$46,149
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Westside II		2.6		Sewer System Project	
Addition of Oxidation Ditch and Clarifier & Tertiary Filtration		5		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
7.6	\$496,311		\$242.50	0.525%	
Overall cost of projects identified as of January 1, 2016 by the community of Cannon Falls as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					7.6 (million)

Canosia & Grand Lake	COUNTY: St Louis	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Canosia & Grand Lake Townships - Caribou Lake (St. Lo)		4.4		Wastewater Treatment Facilities Project	
Canosia & Grand Lake Townships - Caribou Lake (St. Lo)		4.4		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
8.8	\$574,676				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Canosia & Grand Lake Townships
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 8.8 (million)*

Carlos	COUNTY: Douglas	POPULATION*:	592	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$52,500
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 5 - 10 yr. Need ---					
New Pumps		0.01		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.01	\$653		\$2.40	0.005%	

*Overall cost of projects identified as of January 1, 2016 by the community of Carlos
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.01 (million)*

Carlton	COUNTY: Carlton	POPULATION*:	833	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$41,442
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
School Avenue		1.2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.2	\$78,365		\$204.43	0.493%	

*Overall cost of projects identified as of January 1, 2016 by the community of Carlton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.2 (million)*

Cascade Twp	COUNTY: Olmsted	POPULATION*:	2,838	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$105,263
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Cascade Twp - Hallmark Terrace		0.5		SFY 2016 PPL Sewer System Project / Rank: 51	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.5	\$32,652		\$27.16	0.026%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Cascade Twp
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)*

Cass County	COUNTY: Cass	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Cass County - Sugar Point		1	SFY 2016 PPL Treatment Facilities Project / Rank: 279
Cass County - Sugar Point		1	SFY 2016 PPL Sewer System Project / Rank: 279
Cass County - Stony Point		0.6	SFY 2016 PPL Sewer System Project / Rank: 104
Cass County - Stony Point		0.6	SFY 2016 PPL Treatment Facilities Project / Rank: 104
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.2	\$208,973		

*Overall cost of projects identified as of January 1, 2016 by the community of Cass County
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.2 (million)*

Cedar Mills	COUNTY: Meeker	POPULATION*:	70 MEDIAN HOUSEHOLD INCOME (MHI)*: \$51,429
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Cedar Mills		0.3	SFY 2016 PPL Treatment Facilities Project / Rank: 257
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.3	\$19,591	\$551.00	1.071%

*Overall cost of projects identified as of January 1, 2016 by the community of Cedar Mills
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.3 (million)*

Center City	COUNTY: Chisago	POPULATION*:	581 MEDIAN HOUSEHOLD INCOME (MHI)*: \$72,000
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Center City		0.13	SFY 2016 PPL Sewer System Project / Rank: 128

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.13	\$8,490	\$29.27	0.041%

Overall cost of projects identified as of January 1, 2016 by the community of Center City as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.13 (million)

Central Iron Range San	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Central Iron Range SD	4.5	SFY 2016 PPL Treatment Facilities Project / Rank: 7
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.5	\$293,868		

Overall cost of projects identified as of January 1, 2016 by the community of Central Iron Range Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.5 (million)

Champlin	****	COUNTY: Hennepin	POPULATION*:	22,937	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$81,428
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Lift Station #7	0.03	Sewer System Project
Sanitary Sewer Manhole Replacement	0.225	Sewer System Project
Lift Station Contrl and Monitoring Upgrades	0.18	Sewer System Project
Lift Station #6	0.004	Sewer System Project
Sanitary Sewer Rehabilitation	0.775	Sewer System Project
Lift Station #5 Replacement	0.075	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.289	\$84,177	\$8.68	0.011%

Overall cost of projects identified as of January 1, 2016 by the community of Champlin as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.289 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Champlin

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Chanhassen	****	COUNTY: Carver	POPULATION*: 23,000	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
MUSA Trunk Sanitary Sewer Oversizing			0.075	Sewer System Project
Sanitary Lift Station Rehabilitation Program			0.125	Sewer System Project
2010 MUSA Sanitary Lift Station			1.9	Sewer System Project
Inflow and Infiltration Abatement			0.875	Sewer System Project
LB-1 Sanitary Sewer Extensin			4.05	Sewer System Project
Sanitary Sewer Replacement			0.715	Sewer System Project
LB-3 Sanitary sewer extension			9.6	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
17.34		\$1,132,372	\$118.59	

Overall cost of projects identified as of January 1, 2016 by the community of Chanhassen as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 17.34 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Chanhassen

Chaska	****	COUNTY: Carver	POPULATION*: 23,429	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$70,815
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
SW Sanitary Sewer Extension			5.4	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5.4		\$352,642	\$34.48	0.049%	

Overall cost of projects identified as of January 1, 2016 by the community of Chaska as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.4 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Chaska

Chisholm		COUNTY: St Louis	POPULATION*: 4,962	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,093
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community

Lakeview Area Sewer Improvements	5.45	SFY 2016 PPL Sewer System Project / Rank: 47
3rd Avenue NE Improvements	0.061	Sewer System Project
5th Avenue NW Improvements	0.072	Sewer System Project
Chisholm	0.90703	SFY 2016 PPL Sewer System Project / Rank: 62
8th Street and 8th Avenue NW Improvements	0.481	Sewer System Project
4th Street and 3rd Avenue SW Improvements	0.086	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.05703	\$460,853	\$162.91	0.464%

Overall cost of projects identified as of January 1, 2016 by the community of Chisholm as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.0570 (million)

Clara City COUNTY: Chippewa POPULATION*: 1,198 MEDIAN HOUSEHOLD INCOME (MHI)*: \$38,704

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

2014 Utility and Street Improvement Project Phase #2 of	2.8	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.8	\$182,851	\$263.31	0.680%

Overall cost of projects identified as of January 1, 2016 by the community of Clara City as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.8 (million)

Clarissa COUNTY: Todd POPULATION*: 765 MEDIAN HOUSEHOLD INCOME (MHI)*: \$35,069

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Rehabilitation of W Leslie Ave Sewers	0.185	SFY 2016 PPL Sewer System Project / Rank: 86
Collection System Improvements	2.343	SFY 2016 PPL Sewer System Project / Rank: 86
Wastewater Treatment Improvements	0.7	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.228	\$210,801	\$574.91	1.639%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Clarissa
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.228 (million)*

Clarkfield	COUNTY: Yellow Medi	POPULATION*:	702	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$37,500
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sewer Main Replacement/Rehab		0.35		SFY 2016 PPL Sewer System Project / Rank:	130
Sewer Main Replacement/Rehab		0.35		SFY 2016 PPL Sewer System Project / Rank:	130
Clarkfield		2.92		SFY 2016 PPL Sewer System Project / Rank:	130
Clarkfield		2.92		SFY 2016 PPL Treatment Facilities Project / Rank:	130
Cell 1 and 2 Sludge Removal		0.06		SFY 2016 PPL Treatment Facilities Project / Rank:	130
Reline sewer mains and manhole rehabilitation		0.66		SFY 2016 PPL Sewer System Project / Rank:	130
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
7.26	\$474,107		\$992.32	2.646%	
--- 5 - 10 yr. Need ---					
Re-evaluating Project		0.515		SFY 2016 PPL Treatment Facilities Project / Rank:	130
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.515	\$33,632		\$70.39	0.188%	

*Overall cost of projects identified as of January 1, 2016 by the community of Clarkfield
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.775 (million)*

Clear Lake - Clearwater	COUNTY: Sherburne	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Clear Lake/Clearwater		1.446		SFY 2016 PPL Treatment Facilities Project / Rank:	260
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.446	\$94,430				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Clear Lake - Clearwater Sewer Authority
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.446 (million)*

Clearbrook	COUNTY: Clearwater	POPULATION*:	600	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$32,917
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
WWTF Piping Improvments		0.036		Wastewater Treatment Facilities Project	
Clearbrook Sanitary Sewer Rehabilitation		6.33		SFY 2016 PPL Sewer System Project / Rank: 218	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
6.366	\$415,726	\$1,053.95	3.202%		

*Overall cost of projects identified as of January 1, 2016 by the community of Clearbrook
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.366 (million)*

Climax	COUNTY: Polk	POPULATION*:	256	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,000
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Climax		1.23		SFY 2016 PPL Treatment Facilities Project / Rank: 138	
Climax		1.23		SFY 2016 PPL Sewer System Project / Rank: 138	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
2.46	\$160,648	\$1,095.33	2.738%		

*Overall cost of projects identified as of January 1, 2016 by the community of Climax
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.46 (million)*

Clitherall	COUNTY: Otter Tail	POPULATION*:	78	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$18,750
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Clitherall		0.909		SFY 2016 PPL Sewer System Project / Rank: 90	
Clitherall		0.909		SFY 2016 PPL Treatment Facilities Project / Rank: 90	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.818	\$118,723	\$1,594.78	8.506%

*Overall cost of projects identified as of January 1, 2016 by the community of Clitherall
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.818 (million)*

Cloquet	COUNTY: Carlton	POPULATION*: 12,076	MEDIAN HOUSEHOLD INCOME (MHI)*: \$46,650
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

3rd Street Reconstruction - Cloquet Avenue to Carlton Av	0.12	Sewer System Project
22nd Street Reconstruction - Carlton to Prospect	0.126	Sewer System Project
Annual I/I Reduction Improvement Program	0.5	Sewer System Project
8th Street Sanitary Sewer Outfall Reconstruction	0.241	Sewer System Project
Highway 33 Improvement	0.12	Sewer System Project
West Selmser Avenue Side Street Reconstruction	0.128	Sewer System Project
Old Sunnyside Area Reconstruction - Phase I	0.11	Sewer System Project
West End Arch Street/Park Avenue Reconstruction	0.1	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.445	\$94,364	\$15.78	0.034%

*Overall cost of projects identified as of January 1, 2016 by the community of Cloquet
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.445 (million)*

Cohasset	COUNTY: Itasca	POPULATION*: 2,675	MEDIAN HOUSEHOLD INCOME (MHI)*: \$64,400
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Collection System Expansion	2	Sewer System Project
Industrial Park Expansion	1	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3	\$195,912	\$138.07	0.214%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Cohasset
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3 (million)*

Cokato	COUNTY: Wright	POPULATION*: 2,749	MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,577	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Expansion of Existing WWTF		7		SFY 2016 PPL Treatment Facilities Project / Rank: 249
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI
7	\$457,128		\$384.50	0.844%
Overall cost of projects identified as of January 1, 2016 by the community of Cokato as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7 (million)				

Cold Spring	COUNTY: Stearns	POPULATION*: 3,960	MEDIAN HOUSEHOLD INCOME (MHI)*: \$57,829	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
2nd Avenue North		0.28		Sewer System Project
Main Street Reconstruction		2		Sewer System Project
1st and 2nd Street North		0.2		Sewer System Project
Red River 1 CSAH 2		3.5		Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI
5.98	\$390,518		\$215.89	0.373%
--- 5 - 10 yr. Need ---				
New Development and Rehabilitation		4.6		Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI
4.6	\$300,399		\$166.07	0.287%
Overall cost of projects identified as of January 1, 2016 by the community of Cold Spring as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 10.58 (million)				

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Alphabetical by Name of Community

Coleraine	COUNTY: Itasca	POPULATION*:	1,917	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$48,835
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Collection System Improvements		0.6		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.6	\$39,182		\$42.90	0.088%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Coleraine as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.6 (million)</i>

Coleraine-Bovey-Tacon	COUNTY: St Louis	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Taconite Forcemain Replacement		2.35		Sewer System Project	
Pretreatment Screenings Upgrade		0.1		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.45	\$159,995				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Coleraine-Bovey-Taconite Joint Wastewater Com as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>2.45 (million)</i>

Cologne	COUNTY: Carver	POPULATION*:	1,489	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$73,894
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
WWTP Expansion		2.4		Wastewater Treatment Facilities Project	
I & I		0.3		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.7	\$176,321		\$281.36	0.381%	
--- 5 - 10 yr. Need ---					
WWTP Upgrade		5		Wastewater Treatment Facilities Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5	\$326,520	\$521.04	0.705%

*Overall cost of projects identified as of January 1, 2016 by the community of Cologne
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.7 (million)*

Columbia Heights****	COUNTY: Anoka	POPULATION*: 19,532	MEDIAN HOUSEHOLD INCOME (MHI)*: \$51,967
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Project 1504 - Annual Sanitary Sewer Lining	0.15	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.15	\$9,796	\$1.06	0.002%

*Overall cost of projects identified as of January 1, 2016 by the community of Columbia Heights
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.15 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Columbia Heights

Comfrey	COUNTY: Brown	POPULATION*: 471	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Comfrey	3.438	SFY 2016 PPL Sewer System Project / Rank: 49
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.438	\$224,515	\$1,104.17	

*Overall cost of projects identified as of January 1, 2016 by the community of Comfrey
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.438 (million)*

Corcoran	COUNTY: Hennepin	POPULATION*: 5,393	MEDIAN HOUSEHOLD INCOME (MHI)*: \$89,125
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Downtown Project	3	Sewer System Project
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2014 SE District Sewer and Water Improvements	1.8	Sewer System Project
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.8	\$313,459	\$151.19	0.170%

Overall cost of projects identified as of January 1, 2016 by the community of Corcoran as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.8 (million)

Cotton Twp	COUNTY: St Louis	POPULATION*: 543	MEDIAN HOUSEHOLD INCOME (MHI)*: \$62,679
<i>Project(s)</i>		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Cotton Twp		0.324	SFY 2016 PPL Treatment Facilities Project / Rank: 276
Cotton Twp		0.324	SFY 2016 PPL Sewer System Project / Rank: 276

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.648	\$42,317	\$85.58	0.137%

Overall cost of projects identified as of January 1, 2016 by the community of Cotton Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.648 (million)

Cottonwood	COUNTY: Lyon	POPULATION*: 992	MEDIAN HOUSEHOLD INCOME (MHI)*: \$53,000
<i>Project(s)</i>		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Northwood Drive Life Station Rehab		0.05	SFY 2016 PPL Sewer System Project / Rank: 214
Rehab/expand existing system		0.1166	SFY 2016 PPL Sewer System Project / Rank: 214
Cottonwood		0.338	SFY 2016 PPL Sewer System Project / Rank: 214
Cottonwood Phase # 2		0.166	SFY 2016 PPL Sewer System Project / Rank: 214

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.6706	\$43,793	\$84.94	0.160%

Overall cost of projects identified as of January 1, 2016 by the community of Cottonwood as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6706 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Crane Lake Water and Project(s)	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Crane Lake Eastern Service Area		3.86	SFY 2016 PPL Sewer System Project / Rank: 240
Crane Lake - Bear Island		3.86	SFY 2016 PPL Sewer System Project / Rank: 240
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
7.72	\$504,147		
Overall cost of projects identified as of January 1, 2016 by the community of Crane Lake Water and Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.72 (million)			

Cromwell Project(s)	COUNTY: Carlton	POPULATION*:	138	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$26,250
		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Treatment Facility Improvements		0.45		SFY 2016 PPL Treatment Facilities Project / Rank: 80	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.45	\$29,387	\$211.59	0.806%		
Overall cost of projects identified as of January 1, 2016 by the community of Cromwell as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.45 (million)					

Crookston Project(s)	COUNTY: Polk	POPULATION*:	7,887	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$42,297
		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab/expand existing system		1.19		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
1.19	\$77,712	\$22.20	0.052%		
Overall cost of projects identified as of January 1, 2016 by the community of Crookston as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.19 (million)					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Crosby	COUNTY: Crow Wing	POPULATION*:	2,186	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$27,044
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2015 Utility Improvements		0.95		Sewer System Project	
3rd Street SW Reconstruction		0.75		SFY 2016 PPL Sewer System Project / Rank: 42	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
1.7	\$111,017		\$81.03	0.300%	
Overall cost of projects identified as of January 1, 2016 by the community of Crosby as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					1.7 (million)

Cross Lake Area Water	COUNTY: Crow Wing	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
On-going Maintenance and Expansion		0.2		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
0.2	\$13,061				
Overall cost of projects identified as of January 1, 2016 by the community of Cross Lake Area Water & Sanitary Sewer District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					0.2 (million)

Currie	COUNTY: Murray	POPULATION*:	207	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,458
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Improvement		1.85		SFY 2016 PPL Sewer System Project / Rank: 40	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
1.85	\$120,812		\$862.95	2.743%	
Overall cost of projects identified as of January 1, 2016 by the community of Currie as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					1.85 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Cuyuna	COUNTY: Crow Wing	POPULATION*:	273	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$41,964
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Cuyuna		1.34		SFY 2016 PPL Sewer System Project / Rank:	57
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.34	\$87,507		\$640.30	1.526%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Cuyuna as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.34 (million)</i>					

Dalton	COUNTY: Otter Tail	POPULATION*:	312	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$34,500
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Upgrade Treatment		0.6		SFY 2016 PPL Sewer System Project / Rank:	70
Dalton		0.9375		SFY 2016 PPL Treatment Facilities Project / Rank:	70
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.5375	\$100,405		\$645.46	1.871%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Dalton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.5375 (million)</i>					

Darwin	COUNTY: Meeker	POPULATION*:	424	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$60,625
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Infiltration Repair		1.42		SFY 2016 PPL Treatment Facilities Project / Rank:	118
Upgrade Ponds		1.665		SFY 2016 PPL Sewer System Project / Rank:	118
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
3.085	\$201,463		\$906.58	1.495%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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*Overall cost of projects identified as of January 1, 2016 by the community of Darwin
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.085 (million)*

Dassel	COUNTY: Meeker	POPULATION*:	1,488	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,490
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 5 - 10 yr. Need ---					
Replacement of Spray Irrigation Equipment		1		Wastewater Treatment Facilities Project	
Sanitary Sewer Trunk Line		5		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
6	\$391,824		\$554.47	1.404%	

*Overall cost of projects identified as of January 1, 2016 by the community of Dassel
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6 (million)*

Dawson	COUNTY: Lac qui Parle	POPULATION*:	1,424	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,333
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehabilitate Collection System		5.2		SFY 2016 PPL Sewer System Project / Rank: 43	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5.2	\$339,581		\$414.12	1.027%	

*Overall cost of projects identified as of January 1, 2016 by the community of Dawson
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.2 (million)*

Dayton	*****	COUNTY: Hennepin	POPULATION*:	4,622	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---					
113th Ave Utility & Street Improvements			1.3		Sewer System Project
NW Dayton Utility Extensions/Brockton Ln Turn Lane Im			11.4		Sewer System Project

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there
are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
household debt service costs will overlap and combine where there are 20 yr. repayment
periods.

*** Per household residential share of 20 year debt service for
projects indicated; does not include community operation and
maintenance costs or existing wastewater infrastructure debt
service payments where applicable. Also per household cost
may be higher for localized projects funded by assessments.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
12.7	\$829,361	\$455.14	

*Overall cost of projects identified as of January 1, 2016 by the community of Dayton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 12.7 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Dayton

De Graff	COUNTY: Swift	POPULATION*:	76	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$17,083
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Degraff Collection & Treatment	1.536	Sewer System Project
Degraff Collection & Treatment	3.5	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5.036	\$328,871	\$5,803.61	33.973%

*Overall cost of projects identified as of January 1, 2016 by the community of De Graff
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.036 (million)*

Deephaven	****	COUNTY: Hennepin	POPULATION*:	3,658	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$128,598
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

2015 Sanitary Sewer and Manhole Rehabilitation	0.93	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.93	\$60,733	\$37.36	0.029%

*Overall cost of projects identified as of January 1, 2016 by the community of Deephaven
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.93 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Deephaven

Deer Creek	COUNTY: Otter Tail	POPULATION*:	257	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$32,500
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Deer Creek	0.17	SFY 2016 PPL Sewer System Project / Rank: 220
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.17	\$11,102	\$67.51	0.208%

*Overall cost of projects identified as of January 1, 2016 by the community of Deer Creek
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.17 (million)*

Deer River	COUNTY: Itasca	POPULATION*:	1,032	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$27,955
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

WWTF Pond expansion	1.8	SFY 2016 PPL Treatment Facilities Project / Rank:	194
TH Z Sanitary Sewer Extension	0.5	SFY 2016 PPL Sewer System Project / Rank:	194

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.3	\$150,199	\$275.31	0.985%

*Overall cost of projects identified as of January 1, 2016 by the community of Deer River
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.3 (million)*

DeGraff	COUNTY: Crow Wing	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

DeGraff	4.905	SFY 2016 PPL Sewer System Project / Rank:	13
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.905	\$320,316		

*Overall cost of projects identified as of January 1, 2016 by the community of DeGraff
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.905 (million)*

Delano	COUNTY: Wright	POPULATION*:	5,401	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$74,967
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

2016 Infrastructure Improvements	1	Wastewater Treatment Facilities Project	
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1	\$65,304	\$29.39	0.039%

*Overall cost of projects identified as of January 1, 2016 by the community of Delano
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1 (million)*

Dennison	COUNTY: Goodhue	POPULATION*:	137	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

I & I	0.5	Sewer System Project
Lift Station	0.23	Sewer System Project
Acid Addition to Replace Rip Rap	0.03	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.76	\$49,631	\$812.14	

*Overall cost of projects identified as of January 1, 2016 by the community of Dennison
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.76 (million)*

Dent	COUNTY: Otter Tail	POPULATION*:	199	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$46,429
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Sewer Rehab	1	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1	\$65,304	\$498.08	1.073%

--- 5 - 10 yr. Need ---

Treatment System Expansion	1	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1	\$65,304	\$498.08	1.073%

*Overall cost of projects identified as of January 1, 2016 by the community of Dent
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2 (million)*

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Detroit Lakes	COUNTY: Becker	POPULATION*:	8,507	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,914
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Willow Street, Jackson Avenue to Washington Avenue		1.533		SFY 2016 PPL Sewer System Project / Rank:	116
Waste Water Treatment Facility		30.5		Wastewater Treatment Facilities Project	
Long Lake (2012 Annexation area)		2.173		Sewer System Project	
Detroit Lakes		0.155		SFY 2016 PPL Sewer System Project / Rank:	116
Rehab Treatment, Advanced Treatment		30.5		SFY 2016 PPL Treatment Facilities Project / Rank:	11
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
64.861	\$4,235,686		\$838.57	2.101%	
Overall cost of projects identified as of January 1, 2016 by the community of Detroit Lakes as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 64.861 (million)					

Dilworth	COUNTY: Clay	POPULATION*:	3,925	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$49,167
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Dilworth		0.975		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.975	\$63,671		\$34.27	0.070%	
Overall cost of projects identified as of January 1, 2016 by the community of Dilworth as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.975 (million)					

Dodge Center	COUNTY: Dodge	POPULATION*:	2,640	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$53,415
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
3rd Ave NE		0.1		Sewer System Project	
3rd St. SE		0.26		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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6th Ave. NW	0.17	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.53	\$34,611	\$30.90	0.058%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Dodge Center as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>0.53 (million)</i>	

Dresbach Twp	COUNTY: Winona	POPULATION*:	527	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$82,604
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Dresbach Twp		1.794		SFY 2016 PPL Sewer System Project / Rank: 140	
Dresbach Twp		1.794		SFY 2016 PPL Treatment Facilities Project / Rank: 140	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
3.588	\$234,311	\$937.24	1.135%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Dresbach Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>3.588 (million)</i>		

Duluth - North Shore S	COUNTY: St Louis	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Duluth/NS Phase 2 (Knife River)		1.76		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
1.76	\$114,935				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Duluth - North Shore Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>1.76 (million)</i>		

Dumont	COUNTY: Traverse	POPULATION*:	65	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$74,375
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Wastewater Compliance	2.9	Sewer System Project
Dumont	3.2	SFY 2016 PPL Treatment Facilities Project / Rank: 77
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
6.1	\$398,355	\$9,434.72
		Annual Household Cost as % MHI
		12.685%

Overall cost of projects identified as of January 1, 2016 by the community of Dumont as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.1 (million)

Eagan	****	COUNTY: Dakota	POPULATION*: 64,535	MEDIAN HOUSEHOLD INCOME (MHI)*: \$80,243
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---				
Annual Sewer Lining		0.156	Sewer System Project	
Denmark Sanitary Lift Station Rehab		0.229	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.385	\$25,142	\$0.86	0.001%	

Overall cost of projects identified as of January 1, 2016 by the community of Eagan as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.385 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Eagan

Eagle Bend		COUNTY: Todd	POPULATION*: 497	MEDIAN HOUSEHOLD INCOME (MHI)*: \$30,833
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---				
Eagle Bend		0.595616	SFY 2016 PPL Treatment Facilities Project / Rank: 93	
Main Street Improvement Project		1.262	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
1.857616	\$121,310	\$397.01	1.288%	

Overall cost of projects identified as of January 1, 2016 by the community of Eagle Bend as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.8576 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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East Grand Forks	COUNTY: Polk	POPULATION*:	8,458	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$53,010
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
East Grand Forks - Phase 2		9.422		SFY 2016 PPL Sewer System Project / Rank:	170
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
9.422	\$615,295		\$153.57	0.290%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of East Grand Forks as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					9.422 (million)

Easton	COUNTY: Faribault	POPULATION*:	181	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$50,714
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Easton		0.529888		SFY 2016 PPL Sewer System Project / Rank:	66
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.529888	\$34,604		\$311.43	0.614%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Easton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					0.5299 (million)

Echo	COUNTY: Yellow Medi	POPULATION*:	309	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,458
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab collection system		2		SFY 2016 PPL Sewer System Project / Rank:	132
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2	\$130,608		\$890.51	2.831%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Echo as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					2 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

Eden Prairie ***** COUNTY: Hennepin POPULATION*: 60,024 MEDIAN HOUSEHOLD INCOME (MHI)*: \$91,711

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---		
Curbside I & I Drain Tile Project 2019	0.05	Sewer System Project
Curbside I & I Drain Tile Project 2020	0.05	Sewer System Project
Medcom Boulevard to Franlo Road Sewer	0.025	Sewer System Project
Curbside I & I Drain Tile Project 2016	0.05	Sewer System Project
Cyclic Lift Station Rehab (Annual) #6-2020	0.0012	Sewer System Project
Cyclic Lift Station Rehab (Annual) #3-2017	0.106	Sewer System Project
Cyclic Lift Station Rehab (Annual) #4-2018	0.108	Sewer System Project
Curbside I & I Drain Tile Project 2018	0.05	Sewer System Project
Sewer Extension to Lion's Tap	0.05	Sewer System Project
Cyclic Lift Station Rehab (Annual) #5-2019	0.11	Sewer System Project
Curbside I & I Drain Tile Project 2017	0.05	Sewer System Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.6502	\$42,461	\$1.61	0.002%

--- 5 - 10 yr. Need ---

Curbside I & I Drain Tile Project 2022	0.05	Sewer System Project
Cyclic Lift Station Rehab (Annual) #7-2021	0.1149	Sewer System Project
Curbside I & I Drain Tile Project 2021	0.05	Sewer System Project
Cyclic Lift Station Rehab (Annual) #8-2022	0.117	Sewer System Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.3319	\$21,674	\$0.82	0.001%

Overall cost of projects identified as of January 1, 2016 by the community of Eden Prairie as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.9821 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Eden Prairie

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Eden Valley	COUNTY: Meeker	POPULATION*:	534	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Improvements		0.75		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.75	\$48,978		\$146.93		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Eden Valley as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.75 (million)</i>					

Edina	****	COUNTY: Hennepin	POPULATION*:	47,790	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$80,652
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Golf Terrace B Neighborhood St. Reconstruction			0.73		Sewer System Project	
Valley View/Tracy/Valley Lane Roundabout			0.025		Sewer System Project	
Presidents Area Sewer Rehabilitation			1		Sewer System Project	
Park Lawn Avenue Reconstruction			0.2		Sewer System Project	
Tracy Avenue Reconstruction			0.2		Sewer System Project	
Strachauer Park A Neighborhood St. Reconstruction			0.27		Sewer System Project	
Remove Lift Station #1			0.191		Sewer System Project	
Sanitary Trunk Capacity Expansion			1.97		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
4.586	\$299,484		\$12.35	0.015%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Edina as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.586 (million)</i>						
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Edina						

Elbow Lake	COUNTY: Grant	POPULATION*:	1,274	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,444
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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--- Current Need ---

Division Street Improvements 1.85 SFY 2016 PPL Sewer System Project / Rank: 84

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.85	\$120,812	\$149.56	0.422%

Overall cost of projects identified as of January 1, 2016 by the community of Elbow Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.85 (million)

Elk River COUNTY: Sherburne POPULATION*: 22,790 MEDIAN HOUSEHOLD INCOME (MHI)*: \$70,224

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Solids Treatment and Disposal Improvement 0.7 Wastewater Treatment Facilities Project

Elk River 18.886302 SFY 2016 PPL Treatment Facilities Project / Rank: 242

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
19.58630	\$1,279,065	\$135.96	0.194%

Overall cost of projects identified as of January 1, 2016 by the community of Elk River as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 19.586 (million)

Elko New Market**** COUNTY: Scott POPULATION*: 3,845 MEDIAN HOUSEHOLD INCOME (MHI)*: \$87,446

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Natchez Trunk Sewer Extensions 1 Sewer System Project

Adelmann Property 1 Sewer System Project

Southeast Quadrant 1.4 Sewer System Project

Southwest Quadrant 3.8 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.2	\$470,189	\$323.77	0.370%

--- 5 - 10 yr. Need ---

Northwest Quadrant 3.9 Sewer System Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.9	\$254,686	\$175.38	0.201%

Overall cost of projects identified as of January 1, 2016 by the community of Elko New Market as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 11.1 (million)

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Elko New Market

Ellendale	COUNTY: Steele	POPULATION*:	654	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$73,125
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Ellendale		0.96		SFY 2016 PPL Sewer System Project / Rank:	27
2nd Street		0.25		Sewer System Project	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.21	\$79,018	\$244.39	0.334%

Overall cost of projects identified as of January 1, 2016 by the community of Ellendale as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.21 (million)

Elmore	COUNTY: Faribault	POPULATION*:	657	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$26,974
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
TH 169 I/I		1		Sewer System Project	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1	\$65,304	\$168.41	0.624%

Overall cost of projects identified as of January 1, 2016 by the community of Elmore as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1 (million)

Ely	COUNTY: St Louis	POPULATION*:	3,502	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$34,667
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Ely		2.10675		SFY 2016 PPL Sewer System Project / Rank:	79

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community**

Sewer Rehabilitation and I/I Reduction	2	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
4.10675	\$268,187	\$117.17	0.338%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Ely as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>4.1068 (million)</i>	

Elysian	COUNTY: Le Sueur	POPULATION*:	422	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2016 Street and Utility Improvement Project		0.2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.2	\$13,061	\$37.68	0.338%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Elysian as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				<i>0.2 (million)</i>	

Emily	COUNTY: Crow Wing	POPULATION*:	758	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,583
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Emily		1.98		SFY 2016 PPL Sewer System Project / Rank: 274	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
1.98	\$129,302	\$118.63	0.300%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Emily as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				<i>1.98 (million)</i>	

Emore	COUNTY: Martin	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
TH 169 I & I Correction		0.1		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.1	\$6,530		

Overall cost of projects identified as of January 1, 2016 by the community of Emore as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.1 (million)

Erskine	COUNTY: Polk	POPULATION*: 494	MEDIAN HOUSEHOLD INCOME (MHI)*: \$30,500
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Erskine		0.205	SFY 2016 PPL Sewer System Project / Rank: 72
Erskine		0.205	SFY 2016 PPL Treatment Facilities Project / Rank: 72

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.41	\$26,775	\$88.27	0.289%

Overall cost of projects identified as of January 1, 2016 by the community of Erskine as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.41 (million)

Essig	COUNTY: Brown	POPULATION*: 1,946	MEDIAN HOUSEHOLD INCOME (MHI)*: \$25,625
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Essig		1.946	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.946	\$127,082		

Overall cost of projects identified as of January 1, 2016 by the community of Essig as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.946 (million)

Evan	COUNTY: Brown	POPULATION*: 31	MEDIAN HOUSEHOLD INCOME (MHI)*: \$25,625
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Evan Wastewater Facility		0.03	Wastewater Treatment Facilities Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.03	\$1,959	\$83.96	0.328%

*Overall cost of projects identified as of January 1, 2016 by the community of Evan
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.03 (million)*

Eveleth COUNTY: St Louis POPULATION*: 3,732 MEDIAN HOUSEHOLD INCOME (MHI)*: \$36,167

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Eveleth	0.189707	SFY 2016 PPL Sewer System Project / Rank: 63
Fayal Pond Lift Station Renovation	0.8	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.989707	\$64,632	\$31.09	0.086%

--- 5 - 10 yr. Need ---

West Eveleth Transfer Station Renovation	0.73	Sewer System Project
Adams Lift Station Renovation	0.62	Sewer System Project
West Eveleth Lift Station Renovation	0.73	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.08	\$135,832	\$65.34	0.181%

*Overall cost of projects identified as of January 1, 2016 by the community of Eveleth
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.0697 (million)*

Eyota COUNTY: Olmsted POPULATION*: 2,132 MEDIAN HOUSEHOLD INCOME (MHI)*: \$62,883

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Sanitary Sewer Manhole Rehabilitation	0.1	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.1	\$6,530	\$6.88	0.011%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Eyota
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.1 (million)*

Fairfax	COUNTY: Renville	POPULATION*: 1,024	MEDIAN HOUSEHOLD INCOME (MHI)*: \$39,773	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
2015 Street Project		0.1		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.1	\$6,530	\$10.40	0.026%	

*Overall cost of projects identified as of January 1, 2016 by the community of Fairfax
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.1 (million)*

Fairmont	COUNTY: Martin	POPULATION*: 10,639	MEDIAN HOUSEHOLD INCOME (MHI)*: \$40,711	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
General Capital Improvement Program		0.6		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.6	\$39,182	\$6.55	0.016%	

*Overall cost of projects identified as of January 1, 2016 by the community of Fairmont
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6 (million)*

Falcon Heights ****	COUNTY: Ramsey	POPULATION*: 5,307	MEDIAN HOUSEHOLD INCOME (MHI)*: \$56,941	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Sanitary Sewer Lining 2016-20		0.6		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.6	\$39,182	\$16.22	0.028%	

--- 5 - 10 yr. Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Sanitary Sewer Lining 2021-24	0.6	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
0.6	\$39,182	\$16.22
		<i>Annual Household Cost as % MHI</i>
		0.028%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Falcon Heights as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
		<i>1.2 (million)</i>

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Falcon Heights

Faribault	COUNTY: Rice	POPULATION*:	23,195	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$47,952
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
ST CON 18		2.6		Sewer System Project	
Eastside Interceptor Upgrade (SCO-12)		0.75		Sewer System Project	
STCON 16		1.6		Sewer System Project	
St CON 17		1.5		Sewer System Project	
SCO-16		0.2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
6.65	\$434,272	\$43.74		0.091%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Faribault as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>6.65 (million)</i>

Faribault County	COUNTY: Faribault	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Faribault County - Guckeen		0.5325		SFY 2016 PPL Sewer System Project / Rank: 7	
Faribault County - Guckeen		0.5325		SFY 2016 PPL Treatment Facilities Project / Rank: 7	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
1.065	\$69,549				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

*Overall cost of projects identified as of January 1, 2016 by the community of Faribault County
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.065 (million)*

Farmington	****	COUNTY: Dakota	POPULATION*: 20,305	MEDIAN HOUSEHOLD INCOME (MHI)*: \$82,990	
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2nd Street and Honeysuckle Lane			0.51	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.51		\$33,305	\$4.17	0.005%	
--- 5 - 10 yr. Need ---					
1st Street and Oak Street			0.68	Sewer System Project	
Willow St and Linden St Reconstruction			0.468	Sewer System Project	
Spruce Street (RR Tracks to Denmark)			0.561	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.709		\$111,605	\$13.97	0.017%	
--- 10 - 20 yr. Need ---					
Westview Acres Reconstruction			0.833	Sewer System Project	
Pine Street Reconstruction			0.629	Sewer System Project	
f6th Street (Walnut to Ash)			0.425	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.887		\$123,229	\$15.43	0.019%	

*Overall cost of projects identified as of January 1, 2016 by the community of Farmington
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.106 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Farmington

Federal Dam		COUNTY: Cass	POPULATION*: 135	MEDIAN HOUSEHOLD INCOME (MHI)*: \$31,111	
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Federal Dam			1.184	SFY 2016 PPL Sewer System Project / Rank: 231	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.184	\$77,320	\$621.32	1.997%

*Overall cost of projects identified as of January 1, 2016 by the community of Federal Dam
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.184 (million)*

Felton	COUNTY: Clay	POPULATION*:	131	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$29,286
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Repair		0.675		SFY 2016 PPL Sewer System Project / Rank: 99	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.675	\$44,080	\$456.00	1.557%

*Overall cost of projects identified as of January 1, 2016 by the community of Felton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.675 (million)*

Fergus Falls	COUNTY: Otter Tail	POPULATION*:	13,258	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,673
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Public Improvement No. 718317192		0.6		Sewer System Project	
Capital Improvement Plan		6.675		Sewer System Project	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.275	\$475,087	\$70.69	0.183%

*Overall cost of projects identified as of January 1, 2016 by the community of Fergus Falls
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.275 (million)*

Fertile	COUNTY: Polk	POPULATION*:	851	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,000
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Industrial Park		0.2		Sewer System Project	

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Dale Subdivision	0.15	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
0.35	\$22,856	\$50.79
		<i>Annual Household Cost as % MHI</i>
		0.145%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Fertile as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
		<i>0.35 (million)</i>

Floodwood	COUNTY: St Louis	POPULATION*:	519	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$21,974
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Floodwood		0.275		SFY 2016 PPL Sewer System Project / Rank: 149	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.275	\$17,959	\$54.06	0.246%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Floodwood as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>0.275 (million)</i>

Foley	COUNTY: Benton	POPULATION*:	2,576	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$49,154
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Parent Addition Imp Expansion		0.75		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.75	\$48,978	\$46.70	0.095%		
--- 5 - 10 yr. Need ---					
Foley Wastewater Treatment		18		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
18	\$1,175,473	\$1,120.68	2.280%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Foley as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>18.75 (million)</i>

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Forest City Township	COUNTY: Meeker	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Unsewered Area Collection		0.39	Sewer System Project	
Unsewered Area Treatment		0.39	Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.78	\$50,937			
Overall cost of projects identified as of January 1, 2016 by the community of Forest City Township as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.78 (million)				

Forest Lake	****	COUNTY: Washington	POPULATION*:	18,077	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$65,985
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Sewer Lining Project			0.875		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI			
0.875	\$57,141	\$6.83	0.010%			
Overall cost of projects identified as of January 1, 2016 by the community of Forest Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.875 (million)						
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Forest Lake						

Fountain	COUNTY: Fillmore	POPULATION*:	404	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$46,667
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Fountain		0.1835		SFY 2016 PPL Treatment Facilities Project / Rank: 69	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.1835	\$11,983	\$58.30	0.125%		
Overall cost of projects identified as of January 1, 2016 by the community of Fountain as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.1835 (million)					

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Foxhome	COUNTY: Renville	POPULATION*:	85	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$53,333
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Unsewered Area - Possible SSTS		1.592		SFY 2016 PPL Treatment Facilities Project / Rank:	175
Unsewered Area - Possible SSTS		1.592		SFY 2016 PPL Sewer System Project / Rank:	175
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
3.184	\$207,928		\$3,530.85	6.620%	
Overall cost of projects identified as of January 1, 2016 by the community of Foxhome as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					3.184 (million)

Franklin	COUNTY: St Louis	POPULATION*:	646	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,393
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2020 Infrastructure Improvements		0.5		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
0.5	\$32,652		\$106.47	0.277%	
Overall cost of projects identified as of January 1, 2016 by the community of Franklin as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					0.5 (million)

Fraze	COUNTY: Becker	POPULATION*:	1,398	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$34,714
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Fraze		0.69		SFY 2016 PPL Sewer System Project / Rank:	203
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
0.69	\$45,060		\$70.65	0.204%	
Overall cost of projects identified as of January 1, 2016 by the community of Frazee as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					0.69 (million)

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Freeborn County - Stab	COUNTY: Freeborn	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Unsewered Connect to Existing System		5.4	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5.4	\$352,642		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Freeborn County - Stables Area as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			
			5.4 (million)

French Twp	COUNTY: St Louis	POPULATION*:	445	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$54,722
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
French Twp - Wall Street		0.2675		SFY 2016 PPL Sewer System Project / Rank:	247
French Twp - Wall Street		0.2675		SFY 2016 PPL Treatment Facilities Project / Rank:	247
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.535	\$34,938	\$71.63	0.131%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of French Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					0.535 (million)

Fridley	****	COUNTY: Anoka	POPULATION*:	27,394	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$52,024
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
2016-19 Street Project Sanitary System Reconstruction			0.21		Sewer System Project	
2016-19 Sanitary Sewer Collection System Lining			0.97		Sewer System Project	
Sanitary Sewer Lift Station Rehabilitation-Riverwood Lift			0.06		Sewer System Project	
62nd Lift Station Rehabilitation			0.025		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>			
1.265	\$82,610	\$6.11	0.012%			

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

*Overall cost of projects identified as of January 1, 2016 by the community of Fridley
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.265 (million)*
*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Fridley

Ghent	COUNTY: Lyon	POPULATION*:	390	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$63,438
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Replacement		0.411		Sewer System Project	
WWTP Pond Lining and Expansion		1.17		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.581	\$103,246		\$566.59	0.893%	

*Overall cost of projects identified as of January 1, 2016 by the community of Ghent
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.581 (million)*

Gilbert	COUNTY: St Louis	POPULATION*:	1,881	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$47,974
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Facility Improvements		7.615		SFY 2016 PPL Treatment Facilities Project / Rank: 8	
City Wide Sanitary Sewer Improvements		2.55		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
10.165	\$663,816		\$596.84	1.244%	

*Overall cost of projects identified as of January 1, 2016 by the community of Gilbert
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 10.165 (million)*

Glencoe	COUNTY: McLeod	POPULATION*:	5,654	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$48,667
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
WWTP Improvements		15		Wastewater Treatment Facilities Project	
Southwest Corner of Community - Armstrong Avenue		4.5		Sewer System Project	

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Southwest Corner of Community		3.5	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
23	\$1,501,993	\$586.72	1.206%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Glencoe as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				<i>23 (million)</i>

Glenville	COUNTY: Freeborn	POPULATION*:	660	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$42,188
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Center Avenue Extension		0.11	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.11	\$7,183	\$19.89	0.047%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Glenville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.11 (million)</i>

Glenwood	COUNTY: Pope	POPULATION*:	2,570	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,699
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2015 Sanitary Sewer Improvements		1.068	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
1.068	\$69,745	\$44.96	0.126%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Glenwood as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>1.068 (million)</i>

Golden Valley	****	COUNTY: Hennepin	POPULATION*:	20,314	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$82,748
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
2016 - 2017 Payment Mgmt. Project - Sainitary Sewers			0.652	Sewer System Project		

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Alphabetical by Name of Community**

Pavement Management Projects (assoc. sewer work) 9 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9.652	\$630,315	\$62.64	0.076%

*Overall cost of projects identified as of January 1, 2016 by the community of Golden Valley
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.652 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Golden Valley

Goodview COUNTY: Winona POPULATION*: 4,003 MEDIAN HOUSEHOLD INCOME (MHI)*: \$55,496

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Kowalewski/Anderson Extension	0.95	Sewer System Project
Original Sewer System Relining Project	1.5	Sewer System Project
Sewer Line Relining and Rehabilitation	1.5	Sewer System Project
Wenonah Road, Kowalewski/Anderson	6	Sewer System Project
63rd Ave. and 5th Street Extension	0.9	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
10.85	\$708,549	\$370.32	0.667%

*Overall cost of projects identified as of January 1, 2016 by the community of Goodview
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 10.85 (million)*

Grand Lake Twp COUNTY: St Louis POPULATION*: 2,746 MEDIAN HOUSEHOLD INCOME (MHI)*: \$66,645

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Grand Lake Twp - Caribou Lake	0.993	SFY 2016 PPL Sewer System Project / Rank: 111
Grand Lake Twp - Caribou Lake	0.993	SFY 2016 PPL Treatment Facilities Project / Rank: 111

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.986	\$129,694	\$98.75	0.148%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Grand Lake Twp
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.986 (million)*

Grand Marais	COUNTY: Cook	POPULATION*: 1,136	MEDIAN HOUSEHOLD INCOME (MHI)*: \$40,750	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Grand Marais		0.6455		SFY 2016 PPL Sewer System Project / Rank: 198
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.6455	\$42,154	\$52.99	0.130%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Grand Marais as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6455 (million)</i>				

Grand Meadow	COUNTY: Mower	POPULATION*: 985	MEDIAN HOUSEHOLD INCOME (MHI)*: \$50,500	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
2015 Utility Project		0.6		Sewer System Project
no project name given		0.08		Wastewater Treatment Facilities Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.68	\$44,407	\$93.82	0.186%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Grand Meadow as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.68 (million)</i>				

Grand Rapids	COUNTY: Itasca	POPULATION*: 10,833	MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,931	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Grand Rapids		6.8		SFY 2016 PPL Treatment Facilities Project / Rank: 179
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
6.8	\$444,068	\$76.27	0.182%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability**
Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Grand Rapids
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.8 (million)*

Granite Falls	COUNTY: Yellow Medi	POPULATION*:	2,092	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Granite Falls 2		5.39		SFY 2016 PPL Treatment Facilities Project / Rank:	34
Granite Falls 1		2.26		SFY 2016 PPL Treatment Facilities Project / Rank:	25
Granite Falls 1		3		SFY 2016 PPL Treatment Facilities Project / Rank:	25
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
10.65	\$695,488		\$681.11		

*Overall cost of projects identified as of January 1, 2016 by the community of Granite Falls
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 10.65 (million)*

Grasston	COUNTY: Kanabec	POPULATION*:	157	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$53,750
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Treatment Facility Improvements		1.5		Sewer System Project	
Grasston		0.753		SFY 2016 PPL Sewer System Project / Rank:	230
Treatment Facility Improvements		0.753		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
3.006	\$196,304		\$3,397.57	6.321%	

*Overall cost of projects identified as of January 1, 2016 by the community of Grasston
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.006 (million)*

Green Lake Sanitary Se	COUNTY: Kandiyohi	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

Sludge Digestion Process	1.5	Wastewater Treatment Facilities Project
Spicer Lift Station Replacement	0.6	Sewer System Project
New London Lift Station Replacement	0.6	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.7	\$176,321		

Overall cost of projects identified as of January 1, 2016 by the community of Green Lake Sanitary Sewer and Water District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.7 (million)

Greenbush	COUNTY: Roseau	POPULATION*:	722	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,547
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

<i>--- Current Need ---</i>					
Rehab collection system		0.08		SFY 2016 PPL Sewer System Project / Rank:	195

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.08	\$5,224	\$12.88	0.032%

Overall cost of projects identified as of January 1, 2016 by the community of Greenbush as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.08 (million)

Grey Eagle	COUNTY: Todd	POPULATION*:	435	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$43,438
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

<i>--- Current Need ---</i>					
SCADA		0.029		Sewer System Project	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.029	\$1,894	\$7.78	0.018%

Overall cost of projects identified as of January 1, 2016 by the community of Grey Eagle as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.029 (million)

Grove City	COUNTY: Meeker	POPULATION*:	618	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$33,194
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

--- Current Need ---

Grove City	4.953	SFY 2016 PPL Sewer System Project / Rank: 65
Grove City	4.953	SFY 2016 PPL Treatment Facilities Project / Rank: 65

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9.906	\$646,902	\$1,854.18	5.586%

*Overall cost of projects identified as of January 1, 2016 by the community of Grove City
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.906 (million)*

Grygla COUNTY: Marshall POPULATION*: 233 MEDIAN HOUSEHOLD INCOME (MHI)*: \$38,750
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Pond Discharge structure	0.15	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.15	\$9,796	\$52.48	0.135%

*Overall cost of projects identified as of January 1, 2016 by the community of Grygla
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.15 (million)*

Hadley COUNTY: Murray POPULATION*: 73 MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,250
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Unsewered Area Treatment Using Cluster Systems	0.574	Wastewater Treatment Facilities Project
Unsewered Area Collection	0.574	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.148	\$74,969	\$1,984.47	4.811%

*Overall cost of projects identified as of January 1, 2016 by the community of Hadley
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.148 (million)*

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Hallock	COUNTY: Kittson	POPULATION*:	962	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$56,042
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Hallock		1.5336		SFY 2016 PPL Sewer System Project / Rank:	119
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.5336	\$100,150		\$174.01	0.310%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Hallock as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.5336 (million)</i>					

Ham Lake	COUNTY: Anoka	POPULATION*:	15,112	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$91,136
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Ham Lake		1		SFY 2016 PPL Treatment Facilities Project / Rank:	94
Ham Lake		1		SFY 2016 PPL Sewer System Project / Rank:	94
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2	\$130,608		\$21.50	0.024%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Ham Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2 (million)</i>					

Hamburg	COUNTY: Carver	POPULATION*:	610	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$56,875
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Regionalize with Norwood-Young America & Service are		2.933		SFY 2016 PPL Sewer System Project / Rank:	219
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.933	\$191,537		\$613.46	1.079%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Hamburg as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.933 (million)</i>					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community

Hanley Falls	COUNTY: Yellow Medi	POPULATION*:	275	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$30,208
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Hanley Falls		1.104		SFY 2016 PPL Sewer System Project / Rank:	195
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.104	\$72,096		\$564.23	1.868%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Hanley Falls as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.104 (million)</i>					

Hanover	COUNTY: Wright	POPULATION*:	2,171	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 5 - 10 yr. Need ---					
Trunk Sanitary Sewer and Watermain analysis 3-2007		10.468		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
10.468	\$683,603		\$826.94		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Hanover as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 10.468 (million)</i>					

Hardwick	COUNTY: Rock	POPULATION*:	157	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$29,250
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Update Existing Rip Rap		0.02		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.02	\$1,306		\$14.34	0.049%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Hardwick as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.02 (million)</i>					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Hartland	COUNTY: Freeborn	POPULATION*:	281	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,542
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Hartland		0.339226		SFY 2016 PPL Sewer System Project / Rank:	222
Sewer Rehabilitation		0.339		SFY 2016 PPL Sewer System Project / Rank:	222
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.678226	\$44,291	\$316.36	0.821%		
Overall cost of projects identified as of January 1, 2016 by the community of Hartland as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6782 (million)					

Hastings	COUNTY: Dakota	POPULATION*:	21,899	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2015 Street Improvements		0.075		Sewer System Project	
Riverfront Renaissance Phase 2		0.041		Sewer System Project	
2016 Neighborhood Infrastructure Improvements		0.4		Sewer System Project	
Riverfront Renaissance Phase 3		0.25		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.766	\$50,023	\$4.90			
Overall cost of projects identified as of January 1, 2016 by the community of Hastings as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.766 (million)					

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Hastings

Hawley	COUNTY: Clay	POPULATION*:	1,936	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,595
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Hawley		0.995		SFY 2016 PPL Sewer System Project / Rank:	77
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.995	\$64,978	\$71.06	0.156%		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Hawley
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.995 (million)*

Hector	COUNTY: Renville	POPULATION*:	1,149	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$42,917
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sewer and Water Improvements		3		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
3	\$195,912		\$300.38	0.700%	

*Overall cost of projects identified as of January 1, 2016 by the community of Hector
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3 (million)*

Henderson	COUNTY: Sibley	POPULATION*:	814	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$52,500
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Henderson Sanitary Sewer Rehab		1		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1	\$65,304		\$159.71	0.304%	

*Overall cost of projects identified as of January 1, 2016 by the community of Henderson
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1 (million)*

Henning	COUNTY: Otter Tail	POPULATION*:	834	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$30,104
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Replace & Repair Sewer Lines to Eliminate Infiltration/In		0.484		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.484	\$31,607		\$68.55	0.228%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability**
Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Henning
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.484 (million)*

Heron Lake	COUNTY: Jackson	POPULATION*:	622	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$49,219
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Treatment Facility Plan		1		SFY 2016 PPL Treatment Facilities Project / Rank:	213
Heron Lake		0.6046		SFY 2016 PPL Sewer System Project / Rank:	213
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.6046	\$104,787		\$277.38	0.564%	

*Overall cost of projects identified as of January 1, 2016 by the community of Heron Lake
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.6046 (million)*

Hibbing	COUNTY: St Louis	POPULATION*:	16,395	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,267
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Hibbing		1.506		SFY 2016 PPL Treatment Facilities Project / Rank:	80
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.506	\$98,348		\$10.37	0.027%	

*Overall cost of projects identified as of January 1, 2016 by the community of Hibbing
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.506 (million)*

Hill City	COUNTY: Aitkin	POPULATION*:	503	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$25,658
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Collection System Rehabilitation		0.6		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.6	\$39,182		\$78.89	0.307%	

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

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are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
household debt service costs will overlap and combine where there are 20 yr. repayment
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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Hill City
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6 (million)*

Hitterdal	COUNTY: Clay	POPULATION*:	205	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$48,750
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab Ponds		0.4125		SFY 2016 PPL Treatment Facilities Project / Rank:	259
Sewer extension and rehab		0.4125		SFY 2016 PPL Sewer System Project / Rank:	259
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.825	\$53,876		\$381.80	0.783%	

*Overall cost of projects identified as of January 1, 2016 by the community of Hitterdal
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.825 (million)*

Hoffman	COUNTY: Grant	POPULATION*:	575	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$25,625
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2016 Street and Utility Improvements		0.95		SFY 2016 PPL Sewer System Project / Rank:	192
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.95	\$62,039		\$180.70	0.705%	

*Overall cost of projects identified as of January 1, 2016 by the community of Hoffman
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.95 (million)*

Hopkins	****	COUNTY: Hennepin	POPULATION*:	17,531	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$48,533
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Hopkins-LS #1 Abandonment			0.286185		SFY 2016 PPL Sewer System Project / Rank:	59
Hopkins-LS #4			0.156652		SFY 2016 PPL Sewer System Project / Rank:	166

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.442837	\$28,919	\$3.14	0.006%

*Overall cost of projects identified as of January 1, 2016 by the community of Hopkins
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.4428 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Hopkins

Houston	COUNTY: Houston	POPULATION*:	1,020	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,531
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

WWTF Improvements	0.47	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.47	\$30,693	\$57.31	0.145%

*Overall cost of projects identified as of January 1, 2016 by the community of Houston
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.47 (million)*

Howard Lake	COUNTY: Wright	POPULATION*:	1,506	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$33,765
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

4th St., 5th St., 13th Ave., 12th Ave., 11th Ave.	3	Sewer System Project
Howard Lake	7.6255	SFY 2016 PPL Sewer System Project / Rank: 139
8th Avenue and 9th 11th Street	1.5	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
12.1255	\$791,844	\$816.33	2.418%

*Overall cost of projects identified as of January 1, 2016 by the community of Howard Lake
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 12.126 (million)*

Hoyt Lakes	COUNTY: St. Louis	POPULATION*:	2,017	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$48,616
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

Primary Clarifier and Control Structure Rehabilitation	0.65	Wastewater Treatment Facilities Project	
First Stage Digester Rehabilitation	0.677	Wastewater Treatment Facilities Project	
Secondary Clarifier Rehabilitation	0.65	Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
1.977	\$129,106	\$117.96	0.243%

Overall cost of projects identified as of January 1, 2016 by the community of Hoyt Lakes as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.977 (million)

Hutchinson	COUNTY: McLeod	POPULATION*: 14,185	MEDIAN HOUSEHOLD INCOME (MHI)*: \$53,288	
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Hutchinson		0.6138	SFY 2016 PPL Treatment Facilities Project / Rank: 54	
South Central Storm Pond		0.5	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
1.1138	\$72,736	\$10.19	0.019%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Hutchinson as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.1138 (million)</i>				

Ihlen	COUNTY: Pipestone	POPULATION*: 51	MEDIAN HOUSEHOLD INCOME (MHI)*: \$19,583	
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Expand Mound System		0.3	Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.3	\$19,591	\$534.31	2.728%	
--- 5 - 10 yr. Need ---				
Individual & Main Lift Station Rehabilitation		0.3	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.3	\$19,591	\$534.31	2.728%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Ihlen
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6 (million)*

International Falls	COUNTY: Koochiching	POPULATION*: 6,427	MEDIAN HOUSEHOLD INCOME (MHI)*: \$30,094	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Rebuild/Rehab North Koochiching Area Sanitary District		15		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
15	\$979,561	\$270.85	0.900%	

*Overall cost of projects identified as of January 1, 2016 by the community of International Falls
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 15 (million)*

Inver Grove Heights****	COUNTY: Dakota	POPULATION*: 33,638	MEDIAN HOUSEHOLD INCOME (MHI)*: \$64,640	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
2016-19 Sanitary Sewer Lining		0.75		Sewer System Project
2016 Forest Haven Lift Station Upgrade		0.768		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.518	\$99,132	\$6.46	0.010%	

*Overall cost of projects identified as of January 1, 2016 by the community of Inver Grove Heights
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.518 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Inver Grove Heights

Isle	COUNTY: Mille Lacs	POPULATION*: 654	MEDIAN HOUSEHOLD INCOME (MHI)*: \$30,469	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Sewer and Water Utility Improvements Project		1.969		SFY 2016 PPL Sewer System Project / Rank: 148
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.969	\$128,584	\$247.28	0.812%	

* Pop. & MHI from 2010 Census and ACS.
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are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

*Overall cost of projects identified as of January 1, 2016 by the community of Isle
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.969 (million)*

Ivanhoe	COUNTY: Lincoln	POPULATION*:	542	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$34,643
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Ivanhoe Utility Improvements		3.2		SFY 2016 PPL Sewer System Project / Rank:	49
Eastside Development		0.14		Sewer System Project	
Pond Dredging		0.1		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
3.44	\$224,646		\$680.75	1.965%	

*Overall cost of projects identified as of January 1, 2016 by the community of Ivanhoe
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.44 (million)*

Jackson	COUNTY: Jackson	POPULATION*:	3,300	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,873
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Main Extensions		1.45		SFY 2016 PPL Sewer System Project / Rank:	30
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
1.45	\$94,691		\$54.73	0.141%	

*Overall cost of projects identified as of January 1, 2016 by the community of Jackson
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.45 (million)*

Janesville	COUNTY: Waseca	POPULATION*:	2,106	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$52,917
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2016 Old TH 14 Improvements		0.422		Sewer System Project	

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.422	\$27,558	\$29.77	0.056%

*Overall cost of projects identified as of January 1, 2016 by the community of Janesville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.422 (million)*

Jordan	COUNTY: Scott	POPULATION*:	5,418	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$68,189
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Mill Pond Area Improvements	1.2	Sewer System Project
Southwest Trunk Sewer	5	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
6.2	\$404,885	\$183.39	0.269%

*Overall cost of projects identified as of January 1, 2016 by the community of Jordan
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.2 (million)*

Kabetogama Twp	COUNTY: St Louis	POPULATION*:	179	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,208
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Kabetogama Twp - Puck's Point	1.3	SFY 2016 PPL Sewer System Project / Rank: 109
Kabetogama Twp - Puck's Point	1.3	SFY 2016 PPL Treatment Facilities Project / Rank: 109

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.6	\$169,791	\$613.70	1.358%

*Overall cost of projects identified as of January 1, 2016 by the community of Kabetogama Twp
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.6 (million)*

Kandiyohi	COUNTY: Kandiyohi	POPULATION*:	550	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$44,028
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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South Side Infrastructure Replacement Project	3.9	Sewer System Project
SW Sewer Line Replacement	3.8	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
7.7	\$502,841	\$2,047.77
		Annual Household Cost as % MHI
		4.651%

Overall cost of projects identified as of January 1, 2016 by the community of Kandiyohi as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.7 (million)

Kasson	COUNTY: Dodge	POPULATION*: 5,807	MEDIAN HOUSEHOLD INCOME (MHI)*: \$64,226
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Kasson/Mantorville WWTP Upgrade	6.25	SFY 2016 PPL Treatment Facilities Project / Rank: 99	
5th Avenue NW Rebuild	1.35	Sewer System Project	
4th Street/Commerce Dr. SE	0.75	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
8.35	\$545,289	\$199.66	0.311%

Overall cost of projects identified as of January 1, 2016 by the community of Kasson as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 8.35 (million)

Keewatin	COUNTY: Itasca	POPULATION*: 1,142	MEDIAN HOUSEHOLD INCOME (MHI)*: \$28,977
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
RBC Cover Replacement	0.01	Wastewater Treatment Facilities Project	
Wastewater Treatment Plant Improvements	5.5	SFY 2016 PPL Treatment Facilities Project / Rank: 85	
Keewatin - Valve Replacement	0.15	Wastewater Treatment Facilities Project	
Replace Primary Clarifier Drive	3	Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
8.66	\$565,533	\$868.57	2.997%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*Overall cost of projects identified as of January 1, 2016 by the community of Keewatin
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 8.66 (million)*

Kelliher	COUNTY: Beltrami	POPULATION*:	322	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$26,538
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Kelliher		1.645		SFY 2016 PPL Sewer System Project / Rank:	221
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.645	\$107,425		\$671.41	2.530%	

*Overall cost of projects identified as of January 1, 2016 by the community of Kelliher
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.645 (million)*

Kimball	COUNTY: Stearns	POPULATION*:	716	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$55,278
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Grinders at Main Lift		0.15		Wastewater Treatment Facilities Project	
Aeration		1		Wastewater Treatment Facilities Project	
Rehab Irrigation System		3		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
4.15	\$271,012		\$715.28	1.294%	

*Overall cost of projects identified as of January 1, 2016 by the community of Kimball
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.15 (million)*

Knife River-Larsmont	COUNTY: St Louis	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Knife River Sanitary Sewer Project		9		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9	\$587,736		

Overall cost of projects identified as of January 1, 2016 by the community of Knife River-Larsmont Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9 (million)

Koochiching County - I COUNTY: Koochiching POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---		
Koochiching County - Island View Voyageurs	15	SFY 2016 PPL Sewer System Project / Rank: 245

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
15	\$979,561		

Overall cost of projects identified as of January 1, 2016 by the community of Koochiching County - Island View Voyageurs as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 15 (million)

La Crescent COUNTY: Houston POPULATION*: 4,867 MEDIAN HOUSEHOLD INCOME (MHI)*:

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---		
La Crescent	0.7962	SFY 2016 PPL Sewer System Project / Rank: 234
West Bank Lift Station	0.04	Sewer System Project
Wastewater Treatment Plant Modifications	0.2	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.0362	\$67,668	\$29.31	

Overall cost of projects identified as of January 1, 2016 by the community of La Crescent as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.0362 (million)

La Salle COUNTY: Watonwan POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Unsewered Treatment	1.66	Wastewater Treatment Facilities Project
Unsewered Collection	1.66	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.32	\$216,809		

*Overall cost of projects identified as of January 1, 2016 by the community of La Salle
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.32 (million)*

Lafayette COUNTY: Nicollet POPULATION*: 577 MEDIAN HOUSEHOLD INCOME (MHI)*: \$48,393
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- 5 - 10 yr. Need ---

WWTP: Cover for Final Clarifier	0.1	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.1	\$6,530	\$24.49	0.051%

*Overall cost of projects identified as of January 1, 2016 by the community of Lafayette
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.1 (million)*

Lake Benton COUNTY: Lincoln POPULATION*: 674 MEDIAN HOUSEHOLD INCOME (MHI)*: \$31,042
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Lake Benton Ponds Rehabilitation	1.67	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.67	\$109,058	\$244.77	0.789%

--- 5 - 10 yr. Need ---

Fremont Street Improvement	1.074	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.074	\$70,137	\$157.41	0.507%

*Overall cost of projects identified as of January 1, 2016 by the community of Lake Benton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.744 (million)*

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Lake County - Larsmon	COUNTY: Lake	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Lake County - Larsmont		0.975	SFY 2016 PPL Sewer System Project / Rank: 253
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.975	\$63,671		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Lake County - Larsmont as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.975 (million)</i>			

Lake Crystal	COUNTY: Blue Earth	POPULATION*:	2,540	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$59,808
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Humphrey Street Lift Station - Lake		0.25		Sewer System Project	
Secondary Sludge Storage Tank		0.45		Wastewater Treatment Facilities Project	
Yearly sewer main and lift station improvements		0.25		Sewer System Project	
South Anna and south Hunt Street sewer rehab		0.5		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
1.45	\$94,691	\$74.69		0.125%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Lake Crystal as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.45 (million)</i>					

Lake Elmo	****	COUNTY: Washington	POPULATION*:	7,997	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$105,739
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Old Village Phase I & II Street and Utility Improvements			2		Sewer System Project	
Old Village Phase I and II Street & Utility Improvements			2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
4		\$261,216	\$77.92		0.074%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Lake Elmo
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Lake Elmo

Lake of the Woods Cou	COUNTY: Lake of the	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank
--- Current Need ---			
Lake of the Woods Co. - Wheelers Point		4.3045	SFY 2016 PPL Treatment Facilities Project / Rank: 67
Lake of the Woods Co. - Wheelers Point		4.3045	SFY 2016 PPL Sewer System Project / Rank: 67
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
8.609	\$562,203		

*Overall cost of projects identified as of January 1, 2016 by the community of Lake of the Woods County
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 8.609 (million)*

Lake Park	COUNTY: Becker	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank
--- Current Need ---			
Lake Park		1.783	SFY 2016 PPL Sewer System Project / Rank: 64
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.783	\$116,437	\$284.76	0.594%

*Overall cost of projects identified as of January 1, 2016 by the community of Lake Park
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.783 (million)*

Lake Shore	COUNTY: Cass	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank
--- Current Need ---			
Lake Shore Wastewater Improvements		0.7	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.7	\$45,713	\$33.15	0.053%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Lake Shore
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.7 (million)*

Lake Twp - Lakewood	COUNTY: Roseau	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Lake Twp - Lakewood MPH		0.979	SFY 2016 PPL Sewer System Project / Rank: 289
Lake Twp - Lakewood MPH		0.979	SFY 2016 PPL Treatment Facilities Project / Rank: 289
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.958	\$127,865		

*Overall cost of projects identified as of January 1, 2016 by the community of Lake Twp - Lakewood MPH
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.958 (million)*

Lake Twp - Warroad	COUNTY: Roseau	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Lake Twp - Warroad Estates/Northern Lights MPH		1.887	SFY 2016 PPL Sewer System Project / Rank: 290
Lake Twp - Warroad Estates/Northern Lights MPH		1.887	SFY 2016 PPL Treatment Facilities Project / Rank: 290
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.774	\$246,457		

*Overall cost of projects identified as of January 1, 2016 by the community of Lake Twp - Warroad
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.774 (million)*

Lake View Twp	COUNTY: Becker	POPULATION*:	1,846	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$63,413
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Lake View Twp - W. Lake Melissa		0.75		SFY 2016 PPL Sewer System Project / Rank: 206	
Lake View Twp - W. Lake Melissa		0.75		SFY 2016 PPL Treatment Facilities Project / Rank: 206	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.5	\$97,956	\$62.66	0.099%

Overall cost of projects identified as of January 1, 2016 by the community of Lake View Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.5 (million)

Lake View Twp - W. La	COUNTY: Beltrami	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Lake View Twp - W. Lake Melissa	0.375	SFY 2016 PPL Treatment Facilities Project / Rank: 206
Lake View Twp - W. Lake Melissa	0.375	SFY 2016 PPL Sewer System Project / Rank: 206

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.75	\$48,978		

Overall cost of projects identified as of January 1, 2016 by the community of Lake View Twp - W. Lake Melissa as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.75 (million)

Lake Washington Sanit	COUNTY: Le Sueur	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Lake Washington Sanitary District	9.2464	SFY 2016 PPL Sewer System Project / Rank: 270
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9.2464	\$603,827		

Overall cost of projects identified as of January 1, 2016 by the community of Lake Washington Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.2464 (million)

Lakefield	COUNTY: Jackson	POPULATION*:	1,641	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$41,438
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Wastewater Stabilization Pond Constructon & Salty Disch	14.4	Wastewater Treatment Facilities Project
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Wastewater Treatment Plant Modifications	3.6	SFY 2016 PPL Treatment Facilities Project / Rank:	6
Lakefield	2.184	SFY 2016 PPL Treatment Facilities Project / Rank:	6
2016 Street and Utility Replacement	2.3	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
22.484	\$1,468,296	\$1,683.40	4.062%

Overall cost of projects identified as of January 1, 2016 by the community of Lakefield as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 22.484 (million)

Laketown Twp	****	COUNTY: Carver	POPULATION*:	2,304	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$102,396
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Laketown Twp			0.37		SFY 2016 PPL Sewer System Project / Rank:	126
Laketown Twp			0.37		SFY 2016 PPL Sewer System Project / Rank:	126
Subtotal of Cost Estimates (millions)		Project Annual Debt Service**		Annual 20 yr. Household Cost***		Annual Household Cost as % MHI
0.74		\$48,325		\$60.07		0.059%

Overall cost of projects identified as of January 1, 2016 by the community of Laketown Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.74 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Laketown Twp

Lakeville	****	COUNTY: Dakota	POPULATION*:	54,951	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$95,646
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
2019 Sanitary Sewer Trunk Extensions			0.404		Sewer System Project	
Lift Station 6 Rehab			0.72		Sewer System Project	
Lift Station 8 Rehab			0.045		Sewer System Project	
2016 Sanitary Sewer Trunk Extensions			0.138		Sewer System Project	
2019 Inflow/Infiltration Mitigation			0.077		Sewer System Project	
2016 Sanitary Sewer Rehabilitation			0.175		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Alphabetical by Name of Community

2017 Sanitary Sewer Trunk Extensions	0.287	Sewer System Project	
Lift Station 7 Rehab	0.1	Sewer System Project	
2017 Sanitary Sewer Rehabilitation	0.175	Sewer System Project	
2018 Sanitary Sewer Rehabilitation	0.175	Sewer System Project	
Lift Station 23 Rehabilitation	0.02	Sewer System Project	
2017 Inflow/Infiltration Mitigation	0.077	Sewer System Project	
Lift Station 16 Rehabilitation	0.045	Sewer System Project	
2018 Inflow/Infiltration Mitigation	0.077	Sewer System Project	
2019 Sanitary Sewer Rehabilitation	0.175	Sewer System Project	
Lift Station 24 Rehab	0.02	Sewer System Project	
Lift Station 10 Rehab	0.2	Sewer System Project	
2016 Inflow/Infiltration Mitigation	0.077	Sewer System Project	
2018 Sanitary Sewer Trunk Extensions	0.294	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.281	\$214,263	\$10.12	0.011%
--- 5 - 10 yr. Need ---			
Lift Station 9 Rehab	0.02	Sewer System Project	
Lift Station 20 Rehab	0.035	Sewer System Project	
Lift Station 21 Rehabilitation	0.035	Sewer System Project	
Lift Station 3 Rehabilitation	0.048	Sewer System Project	
Lift Station 4 Rehabilitation	0.15	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.288	\$18,808	\$0.89	0.001%
--- 10 - 20 yr. Need ---			
Lift Station 18 Rehabilitation	0.035	Sewer System Project	
Lift Station 22 Rehabilitation	0.015	Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.05	\$3,265	\$0.15	0.000%

*Overall cost of projects identified as of January 1, 2016 by the community of Lakeville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.619 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Lakeville

Lamberton	COUNTY: Redwood	POPULATION*: 938	MEDIAN HOUSEHOLD INCOME (MHI)*: \$38,375
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Lamberton	3.0521	SFY 2016 PPL Sewer System Project / Rank: 53
1021 Infrastructure Improvements	1.9	SFY 2016 PPL Sewer System Project / Rank: 53

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.9521	\$323,392	\$696.30	1.814%

*Overall cost of projects identified as of January 1, 2016 by the community of Lamberton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.9521 (million)*

Laporte	COUNTY: Hubbard	POPULATION*: 193	MEDIAN HOUSEHOLD INCOME (MHI)*: \$39,375
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Laporte - Unsewered	0.1	SFY 2016 PPL Sewer System Project / Rank: 269
Laporte	0.125	SFY 2016 PPL Treatment Facilities Project / Rank: 262
Laporte	0.125	SFY 2016 PPL Sewer System Project / Rank: 262

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.35	\$22,856	\$190.47	0.484%

*Overall cost of projects identified as of January 1, 2016 by the community of Laporte
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.35 (million)*

Le Center	COUNTY: Le Sueur	POPULATION*: 2,431	MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,000
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

--- Current Need ---

Rehab collection system 7.541 SFY 2016 PPL Sewer System Project / Rank: 103

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.541	\$492,458	\$446.79	0.993%

Overall cost of projects identified as of January 1, 2016 by the community of Le Center as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.541 (million)

Le Roy	COUNTY: Mower	POPULATION*:	922	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$43,892
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Le Roy 0.521 SFY 2016 PPL Sewer System Project / Rank: 212

Le Roy 0.521 SFY 2016 PPL Sewer System Project / Rank: 212

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.042	\$68,047	\$121.27	0.276%

Overall cost of projects identified as of January 1, 2016 by the community of Le Roy as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.042 (million)

Le Sueur	COUNTY: Le Sueur	POPULATION*:	4,084	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

North Second Street Rehab 0.3 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.3	\$19,591	\$9.74	

Overall cost of projects identified as of January 1, 2016 by the community of Le Sueur as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.3 (million)

Lester Prairie	COUNTY: McLeod	POPULATION*:	1,526	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$61,346
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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--- Current Need ---

Sewer Main CIPP		0.1		Sewer System Project
WWTF Improvements (phosphorus)		0.3		Wastewater Treatment Facilities Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.4	\$26,122		\$38.99	0.064%

--- 5 - 10 yr. Need ---

WWTF Improvements (chlorides)		5		Wastewater Treatment Facilities Project
Service Area Expansion		1		Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
6	\$391,824		\$584.81	0.953%

**Overall cost of projects identified as of January 1, 2016 by the community of Lester Prairie
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 6.4 (million)**

Lewisville COUNTY: Watonwan POPULATION*: 229 MEDIAN HOUSEHOLD INCOME (MHI)*: \$27,232
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Collection System Rehabilitation		0.5		Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.5	\$32,652		\$293.87	1.079%

**Overall cost of projects identified as of January 1, 2016 by the community of Lewisville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)**

Lilydale ***** COUNTY: Dakota POPULATION*: 818 MEDIAN HOUSEHOLD INCOME (MHI)*: \$86,161
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- 10 - 20 yr. Need ---

Lift Station Rehabilitation and Sewer Repair		0.5		Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.5	\$32,652		\$62.26	0.072%

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Lilydale
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Lilydale

Lime Creek	COUNTY: Murraray	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Collection and Cluster Systems in Unsewered Area		0.5606	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.5606	\$36,609		

*Overall cost of projects identified as of January 1, 2016 by the community of Lime Creek
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5606 (million)*

Lincoln Pipestone	COUNTY: Lincoln	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Lincoln Pipestone		2.7	SFY 2016 PPL Treatment Facilities Project / Rank: 36
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.7	\$176,321		

*Overall cost of projects identified as of January 1, 2016 by the community of Lincoln Pipestone
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.7 (million)*

Lindstrom	COUNTY: Chisago	POPULATION*:	4,364	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$57,401
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sewer Lining - Rehab collection system		0.15		SFY 2016 PPL Sewer System Project / Rank:	226
Lindstrom - Mentzer / Melody		0.34		SFY 2016 PPL Sewer System Project / Rank:	266
Lindstrom - Sewer Lining		0.065		SFY 2016 PPL Sewer System Project / Rank:	226
Sylvan Avenue Sewer Reconstruct		0.25		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.805	\$52,570	\$23.00	0.040%

*Overall cost of projects identified as of January 1, 2016 by the community of Lindstrom
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.805 (million)*

Litchfield	COUNTY: Meeker	POPULATION*:	6,742	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$47,637
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

North Ramsey Street Improvements	1.579	Sewer System Project
Wastewater Treatment Facility improvements	30.5	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
32.079	\$2,094,889	\$630.99	1.325%

*Overall cost of projects identified as of January 1, 2016 by the community of Litchfield
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 32.079 (million)*

Little Falls	COUNTY: Morrison	POPULATION*:	8,356	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$33,596
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

2015 Street Project	0.4	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.4	\$26,122	\$5.95	0.018%

*Overall cost of projects identified as of January 1, 2016 by the community of Little Falls
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.4 (million)*

Littlefork	COUNTY: Koochiching	POPULATION*:	656	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$47,692
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- 5 - 10 yr. Need ---

Stabilization Ponds	0.125	Wastewater Treatment Facilities Project
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.125	\$8,163	\$20.81	0.044%

*Overall cost of projects identified as of January 1, 2016 by the community of Littlefork
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.125 (million)*

Long Lake	****	COUNTY: Hennepin	POPULATION*:	1,951	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$70,938
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Sanitary Sewer Lining Project and Leaking Service Repair	0.34	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.34	\$22,203	\$25.26	0.036%

*Overall cost of projects identified as of January 1, 2016 by the community of Long Lake
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.34 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Long Lake

Long Prairie		COUNTY: Todd	POPULATION*:	3,437	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,979
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Long Prairie	5.061	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5.061	\$330,504	\$182.49	0.507%

*Overall cost of projects identified as of January 1, 2016 by the community of Long Prairie
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.061 (million)*

Longville		COUNTY: Cass	POPULATION*:	119	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$23,750
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

South Side Sewer Replacement	0.75	SFY 2016 PPL Sewer System Project / Rank: 238
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Longville	0.708	SFY 2016 PPL Sewer System Project / Rank: 238
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.458	\$95,213	\$659.17	2.775%

*Overall cost of projects identified as of January 1, 2016 by the community of Longville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.458 (million)*

Lonsdale	COUNTY: Rice	POPULATION*: 3,466	MEDIAN HOUSEHOLD INCOME (MHI)*: \$68,718
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

L. S. 1 Gravity Replacement	0.25	Sewer System Project
Sludge drying Facilities	2.75	Wastewater Treatment Facilities Project
L. S. 1 Control Upgrade	0.15	Sewer System Project
Sanitary Sewer Lining	0.15	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.3	\$215,503	\$134.32	0.195%

--- 5 - 10 yr. Need ---

Expansion of lonsdale WWTP#2	7	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7	\$457,128	\$284.91	0.415%

*Overall cost of projects identified as of January 1, 2016 by the community of Lonsdale
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 10.3 (million)*

Loretto	COUNTY: Hennepin	POPULATION*: 739	MEDIAN HOUSEHOLD INCOME (MHI)*: \$70,781
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Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Loretto - Regionalize with MCES	1	SFY 2016 PPL Sewer System Project / Rank: 28
County Road 19	0.025	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.025	\$66,937	\$198.82	0.281%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*Overall cost of projects identified as of January 1, 2016 by the community of Loretto
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.025 (million)*

Louisburg	COUNTY: Lac Qui Parl	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Louisburg		0.2805	SFY 2016 PPL Sewer System Project / Rank: 154
Louisburg		0.2805	SFY 2016 PPL Treatment Facilities Project / Rank: 154
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.561	\$36,636		

*Overall cost of projects identified as of January 1, 2016 by the community of Louisburg
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.561 (million)*

Lucan	COUNTY: Redwood	POPULATION*:	180	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$42,000
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab existing WWTF		2.45		SFY 2016 PPL Treatment Facilities Project / Rank: 55	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
2.45	\$159,995	\$1,439.95		3.428%	

*Overall cost of projects identified as of January 1, 2016 by the community of Lucan
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.45 (million)*

Luverne	COUNTY: Rock	POPULATION*:	4,690	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$36,913
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Luverne Street Sewer Line Project		89.88		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
89.88	\$5,869,528	\$2,313.87		6.268%	

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

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are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
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projects indicated; does not include community operation and
maintenance costs or existing wastewater infrastructure debt
service payments where applicable. Also per household cost
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Alphabetical by Name of Community

--- 5 - 10 yr. Need ---

Second Oxidation Ditch	1.5	Wastewater Treatment Facilities Project
Phosphorus removal	0.5	Wastewater Treatment Facilities Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
2	\$130,608	\$51.49
		Annual Household Cost as % MHI
		0.139%

**Overall cost of projects identified as of January 1, 2016 by the community of Luverne
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 91.88 (million)**

Madison COUNTY: Lac qui Parle POPULATION*: 1,572 MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,136

Project(s)	Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank
--- Current Need ---		
Industrial Park (SE)	3.2	Sewer System Project
Madison	4.535465	SFY 2016 PPL Treatment Facilities Project / Rank: 173
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
7.735465	\$505,157	\$525.60
		Annual Household Cost as % MHI
		1.278%

**Overall cost of projects identified as of January 1, 2016 by the community of Madison
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.7355 (million)**

Mahnomen COUNTY: Mahnomen POPULATION*: 1,526 MEDIAN HOUSEHOLD INCOME (MHI)*: \$31,853

Project(s)	Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank
--- Current Need ---		
Rip Rap Repair on Pond 1 and 2	0.3	SFY 2016 PPL Treatment Facilities Project / Rank: 144
1st Street (Washington to Roosevelt)	1.3	Sewer System Project
Railing Street (Jefferson to Wigham)	0.389	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
1.989	\$129,890	\$171.91
		Annual Household Cost as % MHI
		0.540%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*Overall cost of projects identified as of January 1, 2016 by the community of Mahtomen
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.989 (million)*

Mahtomedi	*****	COUNTY: Washington	POPULATION*:	7,718	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$94,659
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Quail, Laurel, Dwinell, Hazel Street & Utility Improveme			1.41		Sewer System Project	
Wedgewood Drive Lift Station Reconstruction			0.35		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>
1.76		\$114,935		\$37.67		0.040%
--- 5 - 10 yr. Need ---						
Long Lake Road/South Lincolntown Street and Utility Pro			0.9		Sewer System Project	
Bichner Lane & Bevins Lane Street & Utility Improvemen			1.25		Sewer System Project	
Ideal Ave Street and Utility Improvement			1.4		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>
3.55		\$231,829		\$75.98		0.080%

*Overall cost of projects identified as of January 1, 2016 by the community of Mahtomedi
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.31 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Mahtomedi

Manchester		COUNTY: Freeborn	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Unsewered collection			1.604		Sewer System Project	
Unsewered treatment			1.604		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>
3.208		\$209,495				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Manchester
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.208 (million)*

Mankato	COUNTY: Blue Earth	POPULATION*: 38,725	MEDIAN HOUSEHOLD INCOME (MHI)*: \$67,014
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Mullberry street lift station-force main	1.1	Sewer System Project	
TH 83 Lift Station	2.55	Sewer System Project	
Lime Township Phase 2	2.4	Sewer System Project	
South View Heights II	2.571987	SFY 2016 PPL Sewer System Project / Rank: 120	
Madison Avenue Sewer	4.2	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
12.82199	\$837,328	\$47.97	
--- 5 - 10 yr. Need ---			
Stoltzman Road Sewer	2.38	Sewer System Project	
Ellis Birchwood	1.35	Sewer System Project	
Warren Street	2.655	Sewer System Project	
Mills-Thompson Ravine	1.875	Sewer System Project	
Viking Ct	2.96	Sewer System Project	
CSAH 26 Lift Station	2.4	Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
13.62	\$889,441	\$50.96	
Overall cost of projects identified as of January 1, 2016 by the community of Mankato as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 26.442 (million)			

Mantorville	COUNTY: Dodge	POPULATION*: 1,175	MEDIAN HOUSEHOLD INCOME (MHI)*: \$67,014
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community

--- Current Need ---

WWTF Improvements	2.1	SFY 2016 PPL Treatment Facilities Project / Rank:	136
Sanitary Sewer to Serve Southeast	1.6	Sewer System Project	

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
3.7	\$241,625	\$502.22	0.749%

**Overall cost of projects identified as of January 1, 2016 by the community of Mantorville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.7 (million)**

Maple Grove *** COUNTY: Hennepin POPULATION*: 60,241 MEDIAN HOUSEHOLD INCOME (MHI)*: \$94,199**

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Fish Lake Trunk Sanitary Rehabilitation	1.5	Sewer System Project
Rice Lake Trunk Sanitary Sewer Rehabilitation	1.8	Sewer System Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
3.3	\$215,503	\$8.29	0.009%

**Overall cost of projects identified as of January 1, 2016 by the community of Maple Grove
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.3 (million)**

***** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Maple Grove

Maple Plain *** COUNTY: Hennepin POPULATION*: 1,732 MEDIAN HOUSEHOLD INCOME (MHI)*: \$56,579**

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Main street and east sewer improvements (Budd to Pione	0.25	Sewer System Project
Main Street - Maple Avenue Downtown Redevelopment	1.9	Sewer System Project
Drake Street - Gladview Lane Reconstruction Project	1.104	Sewer System Project
Perkins Lane-Bradford Street Reconstruction Project	1.153	Sewer System Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
4.407	\$287,795	\$324.17	0.573%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

*Overall cost of projects identified as of January 1, 2016 by the community of Maple Plain
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.407 (million)*

***** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Maple Plain*

Maplewood	****	COUNTY: Ramsey	POPULATION*: 37,572	MEDIAN HOUSEHOLD INCOME (MHI)*: \$57,594	
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
14-01 Gladstone Improvements Phase 2			0.112	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.112		\$7,314	\$0.43	0.001%	

*Overall cost of projects identified as of January 1, 2016 by the community of Maplewood
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.112 (million)*

***** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Maplewood*

Marshall		COUNTY: Lyon	POPULATION*: 13,534	MEDIAN HOUSEHOLD INCOME (MHI)*: \$43,234	
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
North 4th Street (Hudson to W. Marshall)			0.75	Sewer System Project	
South 4th Street Reconstruction (country club - Donita)			0.75	Sewer System Project	
Commerce Park Phase 2			0.5	Sewer System Project	
East Lyon - East Redwood - Jean			0.2	Sewer System Project	
Industrial Park Replacement Phase 1			0.75	Sewer System Project	
Future Upgrades Due to New Permit Limits			25	Wastewater Treatment Facilities Project	
North A Street - East Redwood to River			0.448	Sewer System Project	
North 3rd West Lyon Sewer Replacement			0.25	Sewer System Project	
Commerce Park Phase 1			0.34	Sewer System Project	
South 2nd Street			0.221	Sewer System Project	
North 1st street Reconstruction			0.25	Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
of Individual Community Needs, Projects Costs and Affordability
Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
29.459	\$1,923,792	\$295.26	0.683%

*Overall cost of projects identified as of January 1, 2016 by the community of Marshall
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 29.459 (million)*

Mayer	COUNTY: Carver	POPULATION*: 1,306	MEDIAN HOUSEHOLD INCOME (MHI)*: \$84,875
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Sanitary Sewer Rehabilitation	0.045	Sewer System Project
Sludge, Storage and WWPT Expansion	1	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.045	\$68,243	\$123.33	0.145%

*Overall cost of projects identified as of January 1, 2016 by the community of Mayer
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.045 (million)*

Maynard	COUNTY: Chippewa	POPULATION*: 498	MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,328
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Collection System Improvements	2.478	SFY 2016 PPL Sewer System Project / Rank: 37
Wastewater Treatment Improvements	0.562	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.04	\$198,524	\$945.35	2.287%

*Overall cost of projects identified as of January 1, 2016 by the community of Maynard
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.04 (million)*

Mazeppa	COUNTY: Wabasha	POPULATION*: 675	MEDIAN HOUSEHOLD INCOME (MHI)*: \$54,583
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

Wastewater Treatment Plant	0.5	SFY 2016 PPL Sewer System Project / Rank: 210		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.5	\$32,652	\$80.73	0.148%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Mazeppa as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				
				<i>0.5 (million)</i>

MCES - Metro Council	COUNTY:	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Crow River Water Reclamation Plant		50	Wastewater Treatment Facilities Project
Seneca WWTP Rehabilitation		35	Wastewater Treatment Facilities Project
MCES Burnsville Interceptor Rehab		3.40497	SFY 2016 PPL Sewer System Project / Rank: 178
MCES Empire WWTP Solids Improvements		13.847839	SFY 2016 PPL Treatment Facilities Project / Rank: 182
St. Croix Valley Rehabilitation		6	Wastewater Treatment Facilities Project
Wastewater Reclamation Facilities		4	Wastewater Treatment Facilities Project
MCES Hopkins System Improvements		49.909967	SFY 2016 PPL Sewer System Project / Rank: 160
Regional Plant Improvements		7	Wastewater Treatment Facilities Project
MCES Mpls Interceptor 1		7.356211	SFY 2016 PPL Sewer System Project / Rank: 122
Waconia Lift Station Forcemain Rehabilitation [New to 2		3	Sewer System Project
Interceptor Rehabilitation Program		32	Sewer System Project
Wastewater Reclamation Facilities		11	Wastewater Treatment Facilities Project
MCES Lift Stations L7, L13, L30, L35, L66		21.092778	SFY 2016 PPL Sewer System Project / Rank: 177
Blue Lake System Improvements		49	Sewer System Project
Seneca Interceptor System Rehabilitation		5	Sewer System Project
Elm Creek - Corcoran/Rogers Connections [New to MCE		0.5	Sewer System Project
Forcemain Rehabilitation		58	Sewer System Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

Small System Improvement Projects	3	Wastewater Treatment Facilities Project
Brooklyn Park LS/FM Rehabilitation	3	Sewer System Project
Small System Improvement Projects	6	Wastewater Treatment Facilities Project
Mpls. Interceptor 1-MN-340 Rehabilitation	9	Sewer System Project
Maple Plain Area Improvements	4	Sewer System Project
Mpls. Interceptor 1-MN-310/320 Diversion	12	Sewer System Project
Maple Plain Area Improvements	3	Sewer System Project
MCES Blue Lake Int. System Improvements	54.373306	SFY 2016 PPL Sewer System Project / Rank: 162
Energy Conservation and Recovery	4.325	Wastewater Treatment Facilities Project
MCES Blue Lake Solar Panels	6.8	SFY 2016 PPL Treatment Facilities Project / Rank: 260
Odor Control Improvements	2.5	Sewer System Project
MCES 1-MN-310/320	12	SFY 2016 PPL Sewer System Project / Rank: 124
MCES Seneca Solids Processing Improvements	18.808818	SFY 2016 PPL Treatment Facilities Project / Rank: 176
Blue Lake Plant Rehabilitation (Solids)	25	Wastewater Treatment Facilities Project
Hastings WWTP	40	Wastewater Treatment Facilities Project
Waconia Lift Station Forcemain Rehabilitation [New to 2	2	Sewer System Project
St. Paul Interceptor System Rehab.	48	Sewer System Project
Blue Lake Plant Improvements	2.713	Wastewater Treatment Facilities Project
Chaska Lift Station	2	Sewer System Project
Interceptor Rehabilitation Program	6	Sewer System Project
MCES St. Bonifacius LS/FM Rehab	18.558343	SFY 2016 PPL Sewer System Project / Rank: 168
Brooklyn Park LS/FM Rehabilitation	50	Sewer System Project
Bloomington System Improvements	17	Sewer System Project
SWC Interceptor - Lake Elmo Connections	2	Sewer System Project
MCES MWWTP Rehab & Facilities Imp	28.201497	SFY 2016 PPL Treatment Facilities Project / Rank: 158
Metro Rehabilitation & Facilities Improvements	35	Wastewater Treatment Facilities Project

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there
are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
household debt service costs will overlap and combine where there are 20 yr. repayment
periods.

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projects indicated; does not include community operation and
maintenance costs or existing wastewater infrastructure debt
service payments where applicable. Also per household cost
may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

Mpls. Interceptor 1-MN-340 Rehabilitation	60	Sewer System Project
Meter Improvements	6	Sewer System Project
Bloomington System Improvements	4.5	Sewer System Project
Richfield Inerceptor System Rehabilitation	20	Sewer System Project
Odor Control Improvements	4.5	Sewer System Project
Richfield Intrceptor System Rehabilitation	40	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
906.3917	\$59,191,054	<i>Annual Household Cost as % MHI</i>
--- 5 - 10 yr. Need ---		
St. Paul Interceptor System Rehab.	60	Sewer System Project
North Area Interceptor Rehabilitation	21.5	Sewer System Project
Meter Improvements	28	Sewer System Project
River Crossings Rehabilitation	54	Sewer System Project
Eagles Point Rehabilitation	15	Wastewater Treatment Facilities Project
MCES Golden Valley Area Imp	10.104263	SFY 2016 PPL Sewer System Project / Rank: 125
Southeast Anoka County	10	Sewer System Project
Mpls Interceptor System Rehabilitation	18	Sewer System Project
MCES Mpls Interceptor 2	23.365136	SFY 2016 PPL Sewer System Project / Rank: 123
MCES MWWTP Solids Processing Improvements	48	SFY 2016 PPL Treatment Facilities Project / Rank: 159
Roseville Interceptor Rehab	20	Sewer System Project
MCES Seneca Area System Rehab	17.87988	SFY 2016 PPL Sewer System Project / Rank: 133
Anoka-Coon Rapids Improvements	50	Sewer System Project
North Area Interceptor Rehabilitation	70	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
445.8493	\$29,115,765	<i>Annual Household Cost as % MHI</i>
--- 10 - 20 yr. Need ---		
Metro Rehabilitation & Facilities Improvements	56	Wastewater Treatment Facilities Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Northwest Area WWTP	50	Wastewater Treatment Facilities Project
Blue Lake Plant Expansion	50	Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
156	\$10,187,432		

Overall cost of projects identified as of January 1, 2016 by the community of MCES - Metro Council Env. Services as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1508.2 (million)

McGrath COUNTY: Aitkin POPULATION*: 72 MEDIAN HOUSEHOLD INCOME (MHI)*: \$32,083
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

McGrath - Corrective Action Project	0.5	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.5	\$32,652	\$544.20	1.696%

Overall cost of projects identified as of January 1, 2016 by the community of McGrath as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)

Melrose COUNTY: Stearns POPULATION*: 3,559 MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,139
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

2018 Wastewater Treatment Plan Improvements	3.5	Wastewater Treatment Facilities Project
---	-----	---

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.5	\$228,564	\$156.19	0.346%

Overall cost of projects identified as of January 1, 2016 by the community of Melrose as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.5 (million)

Menahga COUNTY: Wadena POPULATION*: 1,186 MEDIAN HOUSEHOLD INCOME (MHI)*: \$31,458
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community

Oak Avenue (Rittenhouse Addition) - Utility Extensions	0.12	SFY 2016 PPL Sewer System Project / Rank: 237
Menahga	1.18	SFY 2016 PPL Sewer System Project / Rank: 237
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
1.3	\$84,895	\$113.70
		<i>Annual Household Cost as % MHI</i>
		0.361%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Menahga as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
		<i>1.3 (million)</i>

Mendota Heights ****	COUNTY: Dakota	POPULATION*:	11,191	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$97,560
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Mendota Heights Pond & Northland Drive Lift Station Re		0.281		Sewer System Project	
Ridge Place Sanitary Sewer Rehabilitation		0.315		Sewer System Project	
Annual Sewer Cleaning, Televising, Lining		0.148		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.744	\$48,586	\$9.23	0.009%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Mendota Heights as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>0.744 (million)</i>

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Mendota Heights

Mentor	COUNTY: Polk	POPULATION*:	150	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$24,444
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Mentor		0.923		SFY 2016 PPL Treatment Facilities Project / Rank: 201	
Mentor		0.923		SFY 2016 PPL Sewer System Project / Rank: 201	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
1.846	\$120,551	\$874.97	3.579%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Mentor as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>1.846 (million)</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Miltona	COUNTY: Douglas	POPULATION*:	437	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,463
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Miltona		1.268		SFY 2016 PPL Treatment Facilities Project / Rank:	88
Miltona		1.268		SFY 2016 PPL Sewer System Project / Rank:	88
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
2.536	\$165,611	\$683.72	2.173%		
Overall cost of projects identified as of January 1, 2016 by the community of Miltona as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.536 (million)					

Minneapolis	COUNTY: Hennepin	POPULATION*:	381,833	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$47,478
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Combined Sewer Overflow Improvements		7.5		SFY 2016 PPL Sewer System Project / Rank:	32
Sanitary Tunnel and Sewer Rehabilitation Program		22.05		SFY 2016 PPL Sewer System Project / Rank:	161
Infiltration and inflow program		20.5		SFY 2016 PPL Sewer System Project / Rank:	32
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
50.05	\$3,268,468	\$15.95	0.034%		
Overall cost of projects identified as of January 1, 2016 by the community of Minneapolis as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 50.05 (million)					
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Minneapolis					

Minneota	COUNTY: Lyon	POPULATION*:	1,301	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,833
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Minneota		5		SFY 2016 PPL Sewer System Project / Rank:	4
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
5	\$326,520	\$469.44	1.150%		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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*Overall cost of projects identified as of January 1, 2016 by the community of Minneota
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5 (million)*

Minnetonka	****	COUNTY: Hennepin	POPULATION*: 49,766	MEDIAN HOUSEHOLD INCOME (MHI)*: \$81,588
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Lift Station Rehabilitation			0.875	Sewer System Project
Sewer Efficiency Projects			0.45	Sewer System Project
Infiltration and Inflow Reduction Program			2	Sewer System Project
Sewer - Forcemain Lining			5.75	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9.075		\$592,634	\$23.17	0.028%

*Overall cost of projects identified as of January 1, 2016 by the community of Minnetonka
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.075 (million)*
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Minnetonka

Minnetrista	****	COUNTY: Hennepin	POPULATION*: 6,157	MEDIAN HOUSEHOLD INCOME (MHI)*: \$112,853
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Annual Sewer Rehabilitation Program			0.68	Sewer System Project
Minnetrista			0.711	SFY 2016 PPL Sewer System Project / Rank: 167
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.391		\$90,838	\$36.74	0.033%

*Overall cost of projects identified as of January 1, 2016 by the community of Minnetrista
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.391 (million)*
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Minnetrista

Montevideo		COUNTY: Chippewa	POPULATION*: 5,343	MEDIAN HOUSEHOLD INCOME (MHI)*: \$38,262
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Reline sewer system lines	0.035	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.035	\$2,286	\$0.83	0.002%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Montevideo as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.035 (million)</i>				

Monticello	COUNTY: Wright	POPULATION*: 12,506	MEDIAN HOUSEHOLD INCOME (MHI)*: \$66,748	
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>		
--- Current Need ---				
Biosolids Processing Improvements	1.365	Wastewater Treatment Facilities Project		
Digester Cover Improvements	0.946	Wastewater Treatment Facilities Project		
Replace SCADA System	0.7	Sewer System Project		
New Raw Sewage Pumping and Headworks	5.07	Wastewater Treatment Facilities Project		
Wastewater Treatment	3.5	SFY 2016 PPL Treatment Facilities Project / Rank: 200		
Phosphorus Reduction Improvements	2.511	Wastewater Treatment Facilities Project		
12 inch Featherstone Trunk Sanitary Sewer	0.55	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
14.642	\$956,182	\$174.27	0.261%	
--- 10 - 20 yr. Need ---				
18 inch southeast interceptor-east phase I	0.56	Sewer System Project		
Marvin Road Lift Station Pump Replacement	0.33	Sewer System Project		
In Signia Lift Station and Forcemain	0.4	Sewer System Project		
Replace interceptor from hart blvd. to WWTP	0.4	Sewer System Project		
Add 4th sbr tank	2.042	Wastewater Treatment Facilities Project		
Long Lake Lift Station and Forcemain	0.465	Sewer System Project		
18 inch northwest trunk sanitary sewer phase 2	0.41	Sewer System Project		
12 inch Southeast interceptor-east phase 2	0.63	Sewer System Project		

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Alphabetical by Name of Community

Southeast area lift station and forcemain	0.425	Sewer System Project
Otter Creek Force main Extension to SE I	1.8	Sewer System Project
Add sbr tanks 5 and 6	6	Wastewater Treatment Facilities Project
Southeast Interceptor (Reservoir Lift Station to South City	2.5	Sewer System Project
36 inch southeast interceptor phase 3	0.002	Sewer System Project
18 inch southeast interceptor-west phase 1	0.6	Sewer System Project
18 inch 85th st. ne sanitary trunk sewer	0.4	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
16.964	\$1,107,818	\$201.91
		<i>Annual Household Cost as % MHI</i>
		0.302%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Monticello</i>		
<i>as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
		<i>31.606 (million)</i>

Montrose	COUNTY: Wright	POPULATION*:	2,726	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$61,413
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Lining		0.9		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.9	\$58,774	\$51.96	0.085%		
--- 5 - 10 yr. Need ---					
Emerson Avenue Reconstruct		0.132		Sewer System Project	
Wastewater Treatment Facility Improvements		7		Wastewater Treatment Facilities Project	
1st St N and 2nd St S Reconstruct		0.18		Sewer System Project	
TH 25 Improvements		0.5		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
7.812	\$510,155	\$451.02	0.734%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Montrose</i>					
<i>as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>8.712 (million)</i>

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Alphabetical by Name of Community

Moorhead	COUNTY: Clay	POPULATION*: 37,358	MEDIAN HOUSEHOLD INCOME (MHI)*: \$46,794
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Maintenance Shop HVAC		0.16	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #28		0.02	Sewer System Project
Plant Electric System		0.37	Wastewater Treatment Facilities Project
Primary Sludge Pumps		0.18	Wastewater Treatment Facilities Project
Effluent Nitrification MMC, PLC		0.7	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #5		0.2	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #11		0.28	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #22		0.05	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #25		0.14	Sewer System Project
WWTP: Oxygen System Instrumentation		0.3	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #7		0.11	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #23		0.07	Sewer System Project
Oxygen System Compressor Phase 1		0.57	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #38		0.01	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #4		0.18	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #26		0.06	Sewer System Project
Scum Handling Phase 2		0.08	Wastewater Treatment Facilities Project
WWTP: Disinfection System Improvement		0.7	Wastewater Treatment Facilities Project
WWTP: Water System Improvement		0.13	Wastewater Treatment Facilities Project
WWTP: Screw Pump Improvement		0.66	Wastewater Treatment Facilities Project
WWTP: Aeration Mixer Improvements		1.06	Wastewater Treatment Facilities Project
WWTP: LOX Storage Tank Improvement		0.25	Wastewater Treatment Facilities Project

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Alphabetical by Name of Community

WWTP: Plant Flushing Water System	0.56	Wastewater Treatment Facilities Project
WWTP: Final Clarifier Sludge System Improv.	1.67	Wastewater Treatment Facilities Project
WWTP: Plant Air Compressor Improvement	0.6	Wastewater Treatment Facilities Project
WWTP: Oxygen System Pneumatic /Electric Controls	0.32	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #6	0.02	Sewer System Project
Plant Drains, Pumps, Pipes	0.04	Wastewater Treatment Facilities Project
Oxygen System Compressor Phase 2	0.28	Wastewater Treatment Facilities Project
Disinfection Phase 2	0.53	Wastewater Treatment Facilities Project
Scum Handling Phase I	0.08	Wastewater Treatment Facilities Project
Oxygen Generation System	0.39	Wastewater Treatment Facilities Project
High Voltage Distribution Equipment	0.19	Wastewater Treatment Facilities Project
Moorhead	0.77	SFY 2016 PPL Sewer System Project / Rank: 184
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
11.73	\$766,017	\$45.66
		0.098%
--- 5 - 10 yr. Need ---		
Primary Scum Collection	0.42	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #24	0.08	SFY 2016 PPL Sewer System Project / Rank: 184
Sanitary Lift Station Rehab & Expansion: #42	0.01	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #40	0.03	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #37	0.15	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #36	0.05	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #34	0.05	SFY 2016 PPL Sewer System Project / Rank: 184
Sanitary Lift Station Rehab & Expansion: #28	0.04	SFY 2016 PPL Sewer System Project / Rank: 184
Secondary Treatment MMC, PLC, HVAC	1.26	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #20	0.11	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #27	0.06	Sewer System Project

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Alphabetical by Name of Community

WWTP: Bar Screen Conveyor Improvement	0.1	Wastewater Treatment Facilities Project
WWTP: RAS Pump Valve Improvement	0.31	Wastewater Treatment Facilities Project
WWTP: Bar Screen Improvement	1.32	Wastewater Treatment Facilities Project
WWTP: Primary Clarifier Drive	0.99	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #35	0.13	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #10	0.09	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #18	0.16	SFY 2016 PPL Sewer System Project / Rank: 184
Sanitary Lift Station Rehab & Expansion: #12	0.05	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #3	0.15	SFY 2016 PPL Sewer System Project / Rank: 184
Scum Handling Phase 4	0.07	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #31	0.07	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #2	0.01	Sewer System Project
Septage Receiving Equipment	0.022	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #41	0.006	Sewer System Project
WWTP: Vertical Turbine Pump Improvement	0.66	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #43	0.007	Sewer System Project
Sanitary Lift Station Rehab & Expansion: #32	0.05	Sewer System Project
Grit Pumps	0.07	Wastewater Treatment Facilities Project
Headworks Equipment	1.76	Wastewater Treatment Facilities Project
Sanitary Lift Station Rehab & Expansion: #33	0.05	Sewer System Project
Grit Cyclone	0.07	Wastewater Treatment Facilities Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
8.405	\$548,881	\$32.72	0.070%

Overall cost of projects identified as of January 1, 2016 by the community of Moorhead as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 20.135 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Moose Lake	COUNTY: Carlton	POPULATION*:	2,715	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,485
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Treatment Facility Improvements		2		SFY 2016 PPL Treatment Facilities Project / Rank:	48
Inflow and Infiltration Reduction		2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
4	\$261,216	\$275.29	0.697%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Moose Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					4 (million)

Moose Lake Windemer	COUNTY: Carlton	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Konieska Road		0.237		Sewer System Project	
Sewer Improvement Projects		0.16		Sewer System Project	
Ridgewood Estates/Highway 10 Corridor		0.26		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.657	\$42,905				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Moose Lake Windemere Area Sanitary Sewer Dist as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					0.657 (million)

Mora	COUNTY: Kanabec	POPULATION*:	3,583	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,083
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wood Street - Stewart Avenue - to Forest Avenue		0.579		Sewer System Project	
Mora Wastewater Treatment Facility		8.213		SFY 2016 PPL Treatment Facilities Project / Rank:	86
Wood Street - Stewart Avenue to Fair Avenue		0.158		Sewer System Project	

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Grove Street - Hershey Avenue - Fair Avenue 0.371 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9.321	\$608,699	\$300.18	0.749%

*Overall cost of projects identified as of January 1, 2016 by the community of Mora
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.321 (million)*

Morgan COUNTY: Redwood POPULATION*: 1,023 MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,196

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Infrastructure Improvements 7.8 SFY 2016 PPL Sewer System Project / Rank: 17

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.8	\$509,372	\$1,000.95	2.430%

*Overall cost of projects identified as of January 1, 2016 by the community of Morgan
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.8 (million)*

Morris COUNTY: Stevens POPULATION*: 5,286 MEDIAN HOUSEHOLD INCOME (MHI)*: \$40,114

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Morris 1.675 SFY 2016 PPL Treatment Facilities Project / Rank: 112

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.675	\$109,384	\$44.69	0.111%

*Overall cost of projects identified as of January 1, 2016 by the community of Morris
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.675 (million)*

Mound ***** COUNTY: Hennepin POPULATION*: 9,069 MEDIAN HOUSEHOLD INCOME (MHI)*: \$69,521

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

CIPP Lining of Existing Sanitary Sewer Mains 2 Sewer System Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Replace out of date lift stations 2 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4	\$261,216	\$55.75	0.080%

*Overall cost of projects identified as of January 1, 2016 by the community of Mound
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Mound

Mounds View	COUNTY: Ramsey	POPULATION*: 12,162	MEDIAN HOUSEHOLD INCOME (MHI)*: \$62,431
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<i>Project(s)</i>	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Collection System Rehabilitation	0.15	Sewer System Project
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Collection System Rehabilitation	0.15	Sewer System Project
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Sewer Pipe Lining	0.25	Sewer System Project
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Street & Utility Improvement Project-Area I	0.35	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.9	\$58,774	\$10.46	0.017%

*Overall cost of projects identified as of January 1, 2016 by the community of Mounds View
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.9 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Mounds View

Mountain Lake	COUNTY: Cottonwood	POPULATION*: 2,270	MEDIAN HOUSEHOLD INCOME (MHI)*: \$47,350
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<i>Project(s)</i>	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- 5 - 10 yr. Need ---

Mountain Lake	11.48	SFY 2016 PPL Treatment Facilities Project / Rank: 12
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
11.48	\$749,691	\$697.75	1.474%

*Overall cost of projects identified as of January 1, 2016 by the community of Mountain Lake
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 11.48 (million)*

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there
are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
household debt service costs will overlap and combine where there are 20 yr. repayment
periods.

*** Per household residential share of 20 year debt service for
projects indicated; does not include community operation and
maintenance costs or existing wastewater infrastructure debt
service payments where applicable. Also per household cost
may be higher for localized projects funded by assessments.

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Murdock	COUNTY: Swift	POPULATION*:	237	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$50,000
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Murdock		0.4		SFY 2016 PPL Treatment Facilities Project / Rank:	171
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.4	\$26,122		\$189.59	0.379%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Murdock as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.4 (million)</i>

Myrtle	COUNTY: Freeborn	POPULATION*:	45	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$22,083
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Myrtle		2.549		SFY 2016 PPL Sewer System Project / Rank:	9
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.549	\$166,460		\$7,490.70	33.921%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Myrtle as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>2.549 (million)</i>

Nashwauk	COUNTY: Itasca	POPULATION*:	983	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
		0.09		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.09	\$5,877				
--- 5 - 10 yr. Need ---					
Sewer Rehab.		1.198		SFY 2016 PPL Sewer System Project / Rank:	255
Sewer Extension Expanding Existing System & Treat Swa		2.7592		SFY 2016 PPL Sewer System Project / Rank:	186

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
3.9572 \$258,421

*Overall cost of projects identified as of January 1, 2016 by the community of Nashwauk
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.0472 (million)*

New Auburn COUNTY: Sibley POPULATION*: 577 MEDIAN HOUSEHOLD INCOME (MHI)*: \$42,969
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*
--- Current Need ---
I & I Correction Reduction 0.075 Sewer System Project
I & I Reduction 0.175 Sewer System Project

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
0.25 \$16,326 \$66.49 0.155%

*Overall cost of projects identified as of January 1, 2016 by the community of New Auburn
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.25 (million)*

New Brighton ***** COUNTY: Ramsey POPULATION*: 21,444 MEDIAN HOUSEHOLD INCOME (MHI)*: \$58,796
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*
--- Current Need ---
Sewer Rehab 2022 1 Sewer System Project
Lift Station 2 and 3 Replacement 0.555 Sewer System Project

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
1.555 \$101,548 \$9.68 0.016%

*Overall cost of projects identified as of January 1, 2016 by the community of New Brighton
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.555 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of New Brighton

New Munich COUNTY: Stearns POPULATION*: 318 MEDIAN HOUSEHOLD INCOME (MHI)*: \$44,205
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*
--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Expand WWTF	0.58	Wastewater Treatment Facilities Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.58	\$37,876	\$230.33	0.521%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of New Munich as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				<i>0.58 (million)</i>

New Prague	COUNTY: Scott	POPULATION*:	7,321	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2016-2019 Street and Utility Improvements		0.6		Sewer System Project	
2015 Street and Utility Improvements		0.181		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.781	\$51,002	\$14.38			
<i>Overall cost of projects identified as of January 1, 2016 by the community of New Prague as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.781 (million)</i>

New York Mills	COUNTY: Otter Tail	POPULATION*:	1,500	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,114
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
East Centennial Utility Easement, Shell Lift and Karvonon		1.7		SFY 2016 PPL Sewer System Project / Rank: 107	
Secondary WWTF Pond Structures and Piping		1		Wastewater Treatment Facilities Project	
Alley Between Walker and Hayes Avenues		0.9		Sewer System Project	
Main Lift Station		1.3		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
4.9	\$319,990	\$401.66	1.144%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of New York Mills as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>4.9 (million)</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Newport	*****	COUNTY: Washington	POPULATION*:	3,487	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$53,089
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Barry Drive/10th Avenue			0.1		Sewer System Project	
Newport			0.95		SFY 2016 PPL Sewer System Project / Rank: 60	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>
1.05		\$68,569		\$41.95		0.079%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Newport as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.05 (million)</i>						
***** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Newport						

Nielsenville		COUNTY: Polk	POPULATION*:	182	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$28,500
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 10 - 20 yr. Need ---						
Force Main Replacement			0.15		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>
0.15		\$9,796		\$95.83		0.336%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Nielsenville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.15 (million)</i>						

Nisswa		COUNTY: Crow Wing	POPULATION*:	2,261	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$56,328
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
WWTF Expansion and Subsurface Disposal			2.9		SFY 2016 PPL Treatment Facilities Project / Rank: 181	
Upgrade of Main Three Lift Station			0.3		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>		<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>
3.2		\$208,973		\$114.82		0.204%
--- 5 - 10 yr. Need ---						
TH 371 and CSAH 17 Commercial			2.2		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.2	\$143,669	\$78.94	0.140%

*Overall cost of projects identified as of January 1, 2016 by the community of Nisswa
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.4 (million)*

North Branch COUNTY: Chisago POPULATION*: 10,046 MEDIAN HOUSEHOLD INCOME (MHI)*: \$61,711

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Wastewater Treatment Plant Phase II	3	Wastewater Treatment Facilities Project
North Branch Sewer Rehab	4	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7	\$457,128	\$110.92	0.180%

*Overall cost of projects identified as of January 1, 2016 by the community of North Branch
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7 (million)*

North Koochiching SD COUNTY: Koochiching POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

North Koochiching SD	12.079	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
12.079	\$788,808		

*Overall cost of projects identified as of January 1, 2016 by the community of North Koochiching SD
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 12.079 (million)*

North Mankato COUNTY: Nicollet POPULATION*: 13,258 MEDIAN HOUSEHOLD INCOME (MHI)*:

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Complete Reconstruction - Cliff Court	0.03	Sewer System Project
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* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community

Main Lift Station Rehabilitation	0.58	Sewer System Project
Reo Crest - Lee Blvd to Marie Lane	0.277	Sewer System Project
Marvin Lift Station Rehab	0.08	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.967	\$63,149	\$9.89	

Overall cost of projects identified as of January 1, 2016 by the community of North Mankato as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.967 (million)

North St Paul ******** **COUNTY: Ramsey** **POPULATION*: 11,450** **MEDIAN HOUSEHOLD INCOME (MHI)*: \$52,876**
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Sanitary Sewer Improvements	0.997	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.997	\$65,108	\$12.76	0.024%

Overall cost of projects identified as of January 1, 2016 by the community of North St Paul as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.997 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of North St Paul

Northern Twp - Birchm **COUNTY: Beltrami** **POPULATION*:** **MEDIAN HOUSEHOLD INCOME (MHI)*:**
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Northern Twp - Birchmont Beach	0.4625	SFY 2016 PPL Treatment Facilities Project / Rank: 204
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Northern Twp - Birchmont Beach	0.4625	SFY 2016 PPL Sewer System Project / Rank: 204
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.925	\$60,406		

Overall cost of projects identified as of January 1, 2016 by the community of Northern Twp - Birchmont Beach as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.925 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Northern Twp - Birchm	COUNTY: Beltrami	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Northern Twp - Birchmont Court		0.475	SFY 2016 PPL Sewer System Project / Rank: 205
Northern Twp - Birchmont Court		0.475	SFY 2016 PPL Treatment Facilities Project / Rank: 205
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.95	\$62,039		
Overall cost of projects identified as of January 1, 2016 by the community of Northern Twp - Birchmont Court as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs			0.95 (million)

Northern Twp - Lavinia	COUNTY: Beltrami	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Northern Twp - Lavinia		0.825	SFY 2016 PPL Sewer System Project / Rank: 223
Northern Twp - Lavinia		0.825	SFY 2016 PPL Treatment Facilities Project / Rank: 223
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
1.65	\$107,752		
Overall cost of projects identified as of January 1, 2016 by the community of Northern Twp - Lavinia as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs			1.65 (million)

Northfield	COUNTY: Rice	POPULATION*:	18,608	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Woody Street Reconstruction (Division to Prairie)		0.3		Sewer System Project
Heath Creek Interceptor		0.1		Sewer System Project
Orchard Street:Greenvale Ave to St. Olaf Ave.		0.22		Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***		Annual Household Cost as % MHI
0.62	\$40,489	\$5.86		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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*Overall cost of projects identified as of January 1, 2016 by the community of Northfield
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.62 (million)*

Northome	COUNTY: Koochiching	POPULATION*:	202	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,313
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Northome		2.4875		SFY 2016 PPL Treatment Facilities Project / Rank:	197
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.4875	\$162,444		\$1,538.94	3.817%	
--- 5 - 10 yr. Need ---					
Rehab Collection		2.5		SFY 2016 PPL Sewer System Project / Rank:	197
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
2.5	\$163,260		\$1,546.67	3.837%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Northome as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.9875 (million)</i>					

Norwood Young Amerc	COUNTY: Carver	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 10 - 20 yr. Need ---					
WWTF Improvements Miscellaneous		5		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5	\$326,520				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Norwood Young Amercia as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5 (million)</i>					

Norwood Young Ameri	COUNTY: Carver	POPULATION*:	3,554	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$61,050
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community

Manhole Rehabilitations	0.1	Sewer System Project		
Tacoma Avenue Sewer	0.15	Sewer System Project		
WWTF Improvements - Phosphorus	1.5	Wastewater Treatment Facilities Project		
South Street Sanitary Sewer Improvements	0.6	Sewer System Project		
Sanitary Sewer CIPP - Laterals	0.3	Sewer System Project		
Sanitary Sewer CIPP - Mainlines	0.3	Sewer System Project		
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
2.95	\$192,647	\$113.84	0.186%	
--- 5 - 10 yr. Need ---				
2nd Avenue lift station	0.554	Sewer System Project		
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.554	\$36,178	\$21.38	0.035%	
Overall cost of projects identified as of January 1, 2016 by the community of Norwood Young America as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs				
			3.504 (million)	

Oak Grove	COUNTY: Anoka	POPULATION*: 7,959	MEDIAN HOUSEHOLD INCOME (MHI)*: \$79,583	
Project(s)	Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank		
--- Current Need ---				
WWTF Improvements	0.1	Wastewater Treatment Facilities Project		
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.1	\$6,530	\$2.13	0.003%	
Overall cost of projects identified as of January 1, 2016 by the community of Oak Grove as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs				
			0.1 (million)	

Oak Park Heights****	COUNTY: Washington	POPULATION*: 4,317	MEDIAN HOUSEHOLD INCOME (MHI)*: \$44,946	
Project(s)	Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank		
--- Current Need ---				
Street Reconstruction	0.247352	Sewer System Project		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.247352	\$16,153	\$7.07	0.016%

*Overall cost of projects identified as of January 1, 2016 by the community of Oak Park Heights
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.2474 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Oak Park Heights

Oakdale ***
COUNTY: Washington POPULATION*: 27,473 MEDIAN HOUSEHOLD INCOME (MHI)*: \$66,971

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Relocation/Rehabilitation of Ideal Ave. and Stillwater Blv	0.2	Sewer System Project
Olson Lake Sewer Extension Project	0.158	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.358	\$23,379	\$1.87	0.003%

*Overall cost of projects identified as of January 1, 2016 by the community of Oakdale
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.358 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Oakdale

Odin **COUNTY: Watonwan POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:**

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

Unsewered treatment system	1.74	Wastewater Treatment Facilities Project
Unsewered collection system	1.74	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.48	\$227,258		

*Overall cost of projects identified as of January 1, 2016 by the community of Odin
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.48 (million)*

Ogilvie **COUNTY: Kanabec POPULATION*: 401 MEDIAN HOUSEHOLD INCOME (MHI)*: \$25,417**

Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
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--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Southeast Sewer Extension	0.037	SFY 2016 PPL Sewer System Project / Rank:	9
WWTF Improvements	3.5	SFY 2016 PPL Treatment Facilities Project / Rank:	9
Phosphorus Removal Upgrade	0.3	SFY 2016 PPL Treatment Facilities Project / Rank:	9
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
3.837	\$250,572	\$1,116.41	4.392%
Overall cost of projects identified as of January 1, 2016 by the community of Ogilvie as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs			3.837 (million)

Onamia	COUNTY: Mille Lacs	POPULATION*:	965	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$22,025
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---					
Sanitary Sewer System Rehab		1		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
1	\$65,304	\$139.60	0.634%		
Overall cost of projects identified as of January 1, 2016 by the community of Onamia as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs			1 (million)		

Ormsby	COUNTY: Martin	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---					
Unsewered / colleciton		1.8		Sewer System Project	
Unsewered / treatment		1.8		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
3.6	\$235,095				
Overall cost of projects identified as of January 1, 2016 by the community of Ormsby as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs			3.6 (million)		

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Oronoco	COUNTY: Olmsted	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Oronoco - Area B		10.49	SFY 2016 PPL Sewer System Project / Rank: 52
Oronoco - Area C		1.05	SFY 2016 PPL Sewer System Project / Rank: 141
Oronoco - Area F		1.21	SFY 2016 PPL Sewer System Project / Rank: 142
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
12.75	\$832,627		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Oronoco as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 12.75 (million)</i>			

Oronoco Twp - Cedar B	COUNTY: Olmsted	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Oronoco Twp - Cedar Beach		0.7774	SFY 2016 PPL Treatment Facilities Project / Rank: 29
Oronoco Twp - Cedar Beach		0.7774	SFY 2016 PPL Sewer System Project / Rank: 29
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.5548	\$101,535		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Oronoco Twp - Cedar Beach as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.5548 (million)</i>			

Orr	COUNTY: St Louis	POPULATION*:	279	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$37,500
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Highway 23 Project		0.097722		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
0.097722	\$6,382	\$33.79		0.090%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability *Alphabetical by Name of Community*

*Overall cost of projects identified as of January 1, 2016 by the community of Orr
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.0977 (million)*

Ortonville	COUNTY: Big Stone	POPULATION*: 1,919	MEDIAN HOUSEHOLD INCOME (MHI)*: \$40,969	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Ortonville		0.9		SFY 2016 PPL Sewer System Project / Rank: 50
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.9	\$58,774	\$49.76	0.121%	

*Overall cost of projects identified as of January 1, 2016 by the community of Ortonville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.9 (million)*

Osakis	COUNTY: Douglas	POPULATION*: 1,599	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
City of Osakis		6.5		SFY 2016 PPL Treatment Facilities Project / Rank: 114
No name given		0.35		SFY 2016 PPL Sewer System Project / Rank: 114
Osakis		2.823		SFY 2016 PPL Sewer System Project / Rank: 114
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
9.673	\$631,686	\$719.64		

*Overall cost of projects identified as of January 1, 2016 by the community of Osakis
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.673 (million)*

Oslo	COUNTY: Marshall	POPULATION*: 311	MEDIAN HOUSEHOLD INCOME (MHI)*: \$48,333	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Wastewater Collection System Improvements		1.25		SFY 2016 PPL Sewer System Project / Rank: 243
Wastewater Treatment System Rehabilitation		1.25		SFY 2016 PPL Treatment Facilities Project / Rank: 243

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.5	\$163,260	\$1,027.51	2.126%

*Overall cost of projects identified as of January 1, 2016 by the community of Oslo
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.5 (million)*

Ostrander	COUNTY: Fillmore	POPULATION*:	303	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$44,000
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Collection System Rehabilitation	2.8	Sewer System Project
Collection System Rehabilitation	2.83	SFY 2016 PPL Sewer System Project / Rank: 137

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5.63	\$367,662	\$2,525.92	5.741%

*Overall cost of projects identified as of January 1, 2016 by the community of Ostrander
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.63 (million)*

Ottertail	COUNTY: Otter Tail	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Ottertail	1.88	SFY 2016 PPL Sewer System Project / Rank: 281
Ottertail	1.88	SFY 2016 PPL Treatment Facilities Project / Rank: 281

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.76	\$245,543		

*Overall cost of projects identified as of January 1, 2016 by the community of Ottertail
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.76 (million)*

Owatonna	COUNTY: Steele	POPULATION*:	25,456	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$55,764
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

Bridge Street Lift Station Upgrade	0.75	Sewer System Project	
Wastewater Treatment Facility Expansion and Upgrade	10	Wastewater Treatment Facilities Project	
Trunk Line System Rehabilitation	5	Sewer System Project	
Northwest Sanitary Sewer Trunk Line	12.2	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
27.95	\$1,825,248	\$153.17	0.275%
--- 5 - 10 yr. Need ---			
Northeast Sanitary Sewer Trunk Line	10	Sewer System Project	
Southeast Sanitary Sewer Trunk Line	6	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
16	\$1,044,865	\$87.68	0.157%
--- 10 - 20 yr. Need ---			
East Sanitary Sewer Trunk Line	1.6	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.6	\$104,486	\$8.77	0.016%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Owatonna as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>45.55 (million)</i>

Palisade	COUNTY: Aitkin	POPULATION*:	174	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,071
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Palisade		0.415		SFY 2016 PPL Treatment Facilities Project / Rank:	275
Palisade		0.415		SFY 2016 PPL Sewer System Project / Rank:	275
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.83	\$54,202	\$560.71	1.805%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Palisade as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>0.83 (million)</i>		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Park Rapids	COUNTY: Hubbard	POPULATION*:	3,742	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$30,045
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Street and Utility Improvements		5.8		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5.8	\$378,764		\$177.55	0.591%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Park Rapids as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					5.8 (million)

Pelican Group of Lakes	COUNTY: Otter Tail	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Pelican Group of Lakes Improvement District		8.474		SFY 2016 PPL Sewer System Project / Rank:	282
Pelican Group of Lakes Improvement District		8.474		SFY 2016 PPL Treatment Facilities Project / Rank:	282
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
16.948	\$1,106,773				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Pelican Group of Lakes Improvement District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					16.948 (million)

Pelican Rapids	COUNTY: Otter Tail	POPULATION*:	2,716	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$32,448
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sewer Rehab		3.166		Sewer System Project	
Pelican Rapids		3.955		SFY 2016 PPL Sewer System Project / Rank:	56
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
7.121	\$465,030		\$381.52	1.176%	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Pelican Rapids
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.121 (million)*

Pequot Lakes	COUNTY: Crow Wing	POPULATION*: 2,162	MEDIAN HOUSEHOLD INCOME (MHI)*: \$38,240	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Rehab. Treatment Facilities Add Spray Irrigation		1.85		SFY 2016 PPL Treatment Facilities Project / Rank: 202
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.85	\$120,812		\$75.25	0.197%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Pequot Lakes as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.85 (million)</i>				

Perham	COUNTY: Otter Tail	POPULATION*: 2,968	MEDIAN HOUSEHOLD INCOME (MHI)*: \$39,142	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
3rd Stree NE Street and Utility Improvements		1.301		Sewer System Project
Second Avenue SW Street and Utility Improvements		0.877		SFY 2016 PPL Sewer System Project / Rank: 180
Fourth Street Southeast Street and Utility Improvements		0.217		SFY 2016 PPL Sewer System Project / Rank: 180
N.E. Industrial Park Utility and Street Improvements		0.494		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.889	\$188,663		\$114.88	0.294%
--- 5 - 10 yr. Need ---				
5th Street NW - Utility Improvements		0.097		SFY 2016 PPL Sewer System Project / Rank: 180
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.097	\$6,334		\$3.86	0.010%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Perham as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.986 (million)</i>				

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there
are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
household debt service costs will overlap and combine where there are 20 yr. repayment
periods.

*** Per household residential share of 20 year debt service for
projects indicated; does not include community operation and
maintenance costs or existing wastewater infrastructure debt
service payments where applicable. Also per household cost
may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community

Pine City	COUNTY: Pine	POPULATION*:	3,186	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,801
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Upgrade Main Lift Station		5		Sewer System Project	
Upgrade Existing WWTF		15		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
20	\$1,306,081		\$837.83	1.829%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Pine City as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>20 (million)</i>

Pine Island	COUNTY: Goodhue	POPULATION*:	2,533	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
I&I Correction on Intercept Line		0.5		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.5	\$32,652		\$23.49		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Pine Island as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>0.5 (million)</i>

Pipestone	COUNTY: Pipestone	POPULATION*:	4,304	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,884
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2nd and 3rd Ave SW Improvements - Phase 8		1.9		Sewer System Project	
East Highway 30 Sanitary Sewer Improvement & Extensi		0.4		Sewer System Project	
Pipestone		0.89305		SFY 2016 PPL Sewer System Project / Rank: 22	
East Main Street Improvement - Phase 9		2.9		Sewer System Project	
Pipestone - WTP		9.66		SFY 2016 PPL Treatment Facilities Project / Rank: 38	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
15.75305	\$1,028,738	\$430.43	1.079%
--- 5 - 10 yr. Need ---			
West Main Street Improvements	2.5	Sewer System Project	
2nd Ave NE Area Improvements	1.8	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.3	\$280,807	\$117.49	0.295%
--- 10 - 20 yr. Need ---			
5th and 6th St SW Improvements	2	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2	\$130,608	\$54.65	0.137%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Pipestone as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 22.053 (million)</i>			

Plainview	COUNTY: Wabasha	POPULATION*: 3,332	MEDIAN HOUSEHOLD INCOME (MHI)*: \$44,000
<i>Project(s)</i>	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Sanitary Sewer Rehabilitation	0.5	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.5	\$32,652	\$22.71	0.052%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Plainview as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)</i>			

Plymouth	****	COUNTY: Hennepin	POPULATION*: 69,963	MEDIAN HOUSEHOLD INCOME (MHI)*: \$86,466
<i>Project(s)</i>		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Bass Lake Plaza Lift Station Rehab		0.35	Sewer System Project	
Future Development		15	Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Sunset H:11 Lift Station Rehab	0.4	Sewer System Project
Green Tree Lift Station Rehab	0.45	Sewer System Project
Annual Sewer Lining	0.6	Sewer System Project

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
16.8	\$1,097,108	\$33.73	0.039%

**Overall cost of projects identified as of January 1, 2016 by the community of Plymouth
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 16.8 (million)**

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Plymouth

Pope County	COUNTY: Pope	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Pope County - Clearwater Bay	0.366	SFY 2016 PPL Treatment Facilities Project / Rank: 75
Pope County - Clearwater Bay	0.732	Sewer System Project
Pope County - Clearwater Bay	0.366	SFY 2016 PPL Sewer System Project / Rank: 75

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
1.464	\$95,605		

**Overall cost of projects identified as of January 1, 2016 by the community of Pope County
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.464 (million)**

Preston	COUNTY: Fillmore	POPULATION*:	1,318	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$39,286
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	

--- Current Need ---

2014 Street and Utility Improvement	0.388	Sewer System Project
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Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
0.388	\$25,338	\$33.99	0.087%

**Overall cost of projects identified as of January 1, 2016 by the community of Preston
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.388 (million)**

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Princeton	COUNTY: Mille Lacs	POPULATION*:	4,643	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
NW Trunk sewer Extension Phase 2		1.23		Sewer System Project	
7th Avenue North Water and Sewer Extension		0.4122		Sewer System Project	
NW trunk sewer extension Phase 3		0.446995		Sewer System Project	
West Branch Water Looping		1.099243		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
3.188438	\$208,218		\$86.12		
--- 5 - 10 yr. Need ---					
NW trunk sewer extension Phase 4		0.373045		Sewer System Project	
NW trunk sewer extension phase 5		0.370645		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.74369	\$48,566		\$20.09		
--- 10 - 20 yr. Need ---					
NW Trunk Sewer extension Phase 6		0.906565		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**		Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
0.906565	\$59,202		\$24.49		
Overall cost of projects identified as of January 1, 2016 by the community of Princeton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.8387 (million)					

Prior Lake	****	COUNTY: Scott	POPULATION*:	22,570	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$89,805
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Prior Lake - Rolling Oaks			0.142042		SFY 2016 PPL Sewer System Project / Rank:	257
Prior Lake			0.995		SFY 2016 PPL Sewer System Project / Rank:	257
Sanitary Sewer Slip Lining			0.8		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.937042	\$126,497	\$12.84	0.014%

*Overall cost of projects identified as of January 1, 2016 by the community of Prior Lake
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.9370 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Prior Lake

Proctor	****	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Proctor			1.25	SFY 2016 PPL Sewer System Project / Rank: 15

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.25	\$81,630		

*Overall cost of projects identified as of January 1, 2016 by the community of Proctor
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.25 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Proctor

Quamba		COUNTY: Kanabec	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Unsewered connect to Mora			2.907	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.907	\$189,839		

*Overall cost of projects identified as of January 1, 2016 by the community of Quamba
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.907 (million)*

Racine		COUNTY: Mower	POPULATION*:	449	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$63,750
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Rehab/expand existing system			0.7		SFY 2016 PPL Treatment Facilities Project / Rank: 277	
Sewer Repairs			0.009		SFY 2016 PPL Sewer System Project / Rank: 277	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Racine	0.52	SFY 2016 PPL Sewer System Project / Rank: 277		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.229	\$80,259	\$424.90	0.667%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Racine as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.229 (million)</i>				

Ramsey	****	COUNTY: Anoka	POPULATION*: 23,267	MEDIAN HOUSEHOLD INCOME (MHI)*: \$83,217
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Bunker Lake Blvd (Puma St. Trunk Sewer Extension)	0.5	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.5	\$32,652	\$3.50	0.004%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Ramsey as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)</i>				
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Ramsey				

Randolph		COUNTY: Goodhue	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Unsewered Treatment	1.8575	Wastewater Treatment Facilities Project		
Randolph	1.8578	SFY 2016 PPL Sewer System Project / Rank: 283		
Randolph	1.8578	SFY 2016 PPL Treatment Facilities Project / Rank: 283		
Unsewered collection	1.8575	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
7.4306	\$485,248			
<i>Overall cost of projects identified as of January 1, 2016 by the community of Randolph as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.4306 (million)</i>				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Red Lake Falls	COUNTY: Red Lake	POPULATION*:	1,447	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$37,083
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
3rd Street		0.7		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.7	\$45,713		\$61.04	0.165%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Red Lake Falls as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.7 (million)</i>

Red Rock Twp - Nicolvi	COUNTY: Mower	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Red Rock Twp - Nicolville		0.197788		SFY 2016 PPL Treatment Facilities Project / Rank: 1	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.197788	\$12,916				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Red Rock Twp - Nicolville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.1978 (million)</i>

Renville	COUNTY: Renville	POPULATION*:	1,447	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$44,861
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
UV System or Dechlorination		0.25		Wastewater Treatment Facilities Project	
UV System or Dechlorination		0.25		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.5	\$32,652		\$45.42	0.101%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Renville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.5 (million)</i>

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Rice Lake Twp	COUNTY: St Louis	POPULATION*: 4,080	MEDIAN HOUSEHOLD INCOME (MHI)*: \$67,273
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Rice Lake Twp	0.41	SFY 2016 PPL Sewer System Project / Rank: 14	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.41	\$26,775	\$14.46	0.021%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Rice Lake Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.41 (million)</i>			

Richfield	COUNTY: Hennepin	POPULATION*: 35,053	MEDIAN HOUSEHOLD INCOME (MHI)*: \$52,131
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Portland Avenue Reconstruction Project (County Project)	0.5	Sewer System Project	
69th Street Storm Project	0.175	Sewer System Project	
66th Street Reconstruction Project (County Project)	1.15	Sewer System Project	
Woodlake Lift Station Renovation	0.05	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.875	\$122,445	\$7.00	0.013%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Richfield as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.875 (million)</i>			

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Richfield

Rochester	COUNTY: Olmsted	POPULATION*: 105,576	MEDIAN HOUSEHOLD INCOME (MHI)*: \$63,428
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Sanitary Sewer Extension from Institute Hills	0.75	Sewer System Project	
Slatterly Park West Trunkline Upgrade	1.3	Sewer System Project	
NW Territories Lift Station and Forcemain Phase I	16.4	Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

Golf Course South Phase 2	2.5	Sewer System Project	
Golf Course South	2	Sewer System Project	
2nd Avenue NW/Goose Egg Park Trunkline	3.25	Sewer System Project	
Golf Course West Trunkline Upgrade	4.5	Sewer System Project	
Lift Station 5 Rehabilitation (Green Meadows)	1	Sewer System Project	
Extend Sanitary Sewer Portions of Section 19, 20, 29, and	2	Sewer System Project	
Extension Sanitary Sewer SSA 15E, 15-11, & 15-12	2	Sewer System Project	
Annual maintenance and General Trunkline Relief	10	Sewer System Project	
7797 West Zumbro Relief	1.6	Sewer System Project	
Service area 6 sewer	3.1	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
50.4	\$3,291,324	\$65.17	0.103%
--- 5 - 10 yr. Need ---			
Water Reclamation Plant: Future Plant Expansion	56	Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
56	\$3,657,027	\$72.41	0.114%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Rochester as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			
			<i>106.4 (million)</i>

Rockford	COUNTY: Wright	POPULATION*:	3,890	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Downtown Collection System Rehab		1.3		SFY 2016 PPL Sewer System Project / Rank: 233
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.3	\$84,895	\$48.27		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Rockford as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				
				<i>1.3 (million)</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Rogers	COUNTY: Hennepin	POPULATION*:	8,122	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$94,769
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Secondary Treatment Expansion		15		Wastewater Treatment Facilities Project	
UV Upgrade and Expansion		0.13		Wastewater Treatment Facilities Project	
Lab Upgrade/Replacement		0.6		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
15.73	\$1,027,233		\$325.42	0.343%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Rogers as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>15.73 (million)</i>

Rose Creek	COUNTY: Mower	POPULATION*:	470	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$48,906
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Street Project		0.622		SFY 2016 PPL Sewer System Project / Rank: 257	
Rose Creek		0.621925		SFY 2016 PPL Sewer System Project / Rank: 253	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.243925	\$81,233		\$382.77	0.783%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Rose Creek as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>1.2439 (million)</i>

Roseville	COUNTY: Ramsey	POPULATION*:	33,497	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$56,941
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2017-2024 Sewer Rehabilitation		8.5		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
8.5	\$555,084		\$32.07	0.056%	
--- 5 - 10 yr. Need ---					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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2025-2034 Sewer Rehabilitation	10	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
10	\$653,041	\$37.72	0.066%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Roseville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 18.5 (million)</i>				
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Roseville				

Royalton	COUNTY: Morrison	POPULATION*:	1,068	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
I & I Reduction		0.075		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.075	\$4,898	\$9.42	0.066%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Royalton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.075 (million)</i>					

Rushford	COUNTY: Fillmore	POPULATION*:	1,918	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$43,750
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Treatment Plant Upgrade		0.8		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.8	\$52,243	\$59.07	0.135%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Rushford as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.8 (million)</i>					

Rutledge	COUNTY: Pine	POPULATION*:	301	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$33,558
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Unsewered Treatment		0.646		SFY 2016 PPL Treatment Facilities Project / Rank:	284

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Unsewered collection 0.646 SFY 2016 PPL Sewer System Project / Rank: 284

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.292	\$84,373	\$401.78	1.197%

Overall cost of projects identified as of January 1, 2016 by the community of Rutledge as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.292 (million)

Sabin	COUNTY: Clay	POPULATION*:	631	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$64,107
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

2015 Sewer Manhole Rehabilitation 0.01205 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.01205	\$787	\$3.26	0.005%

Overall cost of projects identified as of January 1, 2016 by the community of Sabin as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.0121 (million)

Sacred Heart	COUNTY: Renville	POPULATION*:	465	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,250
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

Sacred Heart 3.7345 SFY 2016 PPL Treatment Facilities Project / Rank: 18

Sacred Heart 3.7345 SFY 2016 PPL Sewer System Project / Rank: 18

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
7.469	\$487,756	\$1,596.29	5.108%

Overall cost of projects identified as of January 1, 2016 by the community of Sacred Heart as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.469 (million)

Sandstone	COUNTY: Pine	POPULATION*:	2,763	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,306
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Alphabetical by Name of Community

Wastewater Facility Plan 17.827 SFY 2016 PPL Treatment Facilities Project / Rank: 113

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
17.827 \$1,164,175 \$1,412.07 3.503%

*Overall cost of projects identified as of January 1, 2016 by the community of Sandstone
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 17.827 (million)*

Sartell	COUNTY: Stearns	POPULATION*: 15,175	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
St Cloud Forcemain		13.61	Sewer System Project	
East Side Reconstruction		1.31	Sewer System Project	
L.S. #14		0.7	Sewer System Project	
South Pine Cone Spur Line		0.36	Sewer System Project	
Southwest Trunk		2.22	Sewer System Project	
L.S. #12		1.03	Sewer System Project	
L.S. #2 Reconstruction		0.87	Sewer System Project	
L.S. #14 Forcemain		0.53	Sewer System Project	
Northeast Trunk		1.45	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
22.08	\$1,441,913	\$222.78		
--- 5 - 10 yr. Need ---				
L.S. #3 Forcemain replacement		0.37	Sewer System Project	
L.S. #15		0.34	Sewer System Project	
L.S. #15 Forcemain		0.17	Sewer System Project	
L.S. #11		0.89	Sewer System Project	
Riverside Trunk reconstruction		5.89	Sewer System Project	
East Central Trunk Line		0.95	Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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L.S. #8 Replacement with Gravity Sewer	0.41	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
9.02	\$589,043	\$91.01		
--- 10 - 20 yr. Need ---				
Mill Trunk reconstruction	2.51	Sewer System Project		
L.S. #13	0.94	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
3.45	\$225,299	\$34.81		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Sartell as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 34.55 (million)</i>				

Sauk Centre	COUNTY: Stearns	POPULATION*: 4,293	MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,789	
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>		
--- Current Need ---				
Influent Screening	0.8	Wastewater Treatment Facilities Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.8	\$52,243	\$24.76	0.054%	
--- 10 - 20 yr. Need ---				
Highway 71 Major Reconstruct	0.8	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.8	\$52,243	\$24.76	0.054%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Sauk Centre as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.6 (million)</i>				

Sauk Rapids	COUNTY: Benton	POPULATION*: 12,635	MEDIAN HOUSEHOLD INCOME (MHI)*: \$54,946	
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>		
--- Current Need ---				
St. Cloud East Side Interceptor	4.232	Sewer System Project		

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Alphabetical by Name of Community

8th St N - N Benson Dr to 6th Ave N	0.299	Sewer System Project
2nd Ave S - 1st St S to S Benton Dr	0.198	Sewer System Project
Benton Drive S. from 2nd Avenue to Summit Avenue	0.06	Sewer System Project
2nd Street North from 3rd Avenue N. to Hwy 10	0.28	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
5.069	\$331,026	\$57.16
		Annual Household Cost as % MHI
		0.104%

Overall cost of projects identified as of January 1, 2016 by the community of Sauk Rapids as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.069 (million)

Savage	****	COUNTY: Scott	POPULATION*: 26,897	MEDIAN HOUSEHOLD INCOME (MHI)*: \$91,361
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
South Savage Trunk Sewer			3	Sewer System Project
Trunk Utility Improvements PLA			2	Sewer System Project
Sanitary sewer lift station Rehabilitation			0.97	Sewer System Project
Subtotal of Cost Estimates (millions)		Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
5.97		\$389,865	\$38.22	0.042%

Overall cost of projects identified as of January 1, 2016 by the community of Savage as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.97 (million)

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Savage

Scanlon		COUNTY: Carlton	POPULATION*: 1,022	MEDIAN HOUSEHOLD INCOME (MHI)*: \$42,198
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Sewer rehabilitation-CIPP work			0.2	Sewer System Project
2015 Street and Utility Reconstruct (Sanitary Portion Only)			0.3	Sewer System Project
Sewer replacement - Scanlon Way - Bridge to Lincoln (M)			0.3	SFY 2016 PPL Sewer System Project / Rank: 10
Street and Utility Reconstruct - 24th Doddridge to Lincoln			0.6	Sewer System Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Sewer replacement - 23rd - Washington to Sahlman	0.55	Sewer System Project
Sewer replacement - Sahlman - 22nd to 29th	0.4	Sewer System Project
Tall Pine Lane Sewer Improvement	0.1	Sewer System Project
Sewer replacement 27th - Jefferson - to Sahlman	0.4	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
2.85	\$186,117	\$369.77
Annual Household Cost as % MHI		0.876%
--- 10 - 20 yr. Need ---		
Sewer replacement Jefferson- 26th to 28th	0.1	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
0.1	\$6,530	\$12.97
Annual Household Cost as % MHI		0.031%
Overall cost of projects identified as of January 1, 2016 by the community of Scanlon as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs		
		2.95 (million)

Seaforth	COUNTY: Redwood	POPULATION*:	87	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$35,000
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---					
Seaforth		0.82		SFY 2016 PPL Treatment Facilities Project / Rank:	19
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.82	\$53,549	\$1,417.48	4.050%		
Overall cost of projects identified as of January 1, 2016 by the community of Seaforth as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					
					0.82 (million)

Sebeka	COUNTY: Wadena	POPULATION*:	748	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$30,833
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	
--- Current Need ---					
Rehab Collection System - Reduce I/i		0.9		SFY 2016 PPL Sewer System Project / Rank:	228
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.9	\$58,774	\$129.97	0.422%		

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*Overall cost of projects identified as of January 1, 2016 by the community of Sebeka
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.9 (million)*

Shafer	COUNTY: Chisago	POPULATION*:	884	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$54,583
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Shafer		1.8656		SFY 2016 PPL Treatment Facilities Project / Rank:	273
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.8656	\$121,831		\$302.90	0.555%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Shafer as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.8656 (million)</i>					

Shakopee	****	COUNTY: Scott	POPULATION*:	36,110	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$78,028
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
2015 Street Reconstruction			0.3		Sewer System Project	
2016 Street Reconstruction			0.29		Sewer System Project	
Hilldale Drive Sewer and Water Extension			0.07		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>		<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.66	\$43,101		\$2.91	0.004%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Shakopee as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.66 (million)</i>						
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Shakopee						

Shoreview	****	COUNTY: Ramsey	POPULATION*:	25,023	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$82,908
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Sewer Lift Station			0.03		Sewer System Project	
Windward Heights Neighborhood			0.17		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

Wabasso Neighborhood Reconstruction	0.08	Sewer System Project
Sewer Lift Station	0.075	Sewer System Project
Bridge, Lion Neighborhood Reconstruction	0.12	Sewer System Project
Sewer Lift Stations	0.24	Sewer System Project
Sewer Lift Stations	0.03	Sewer System Project
Owasso Boulevard North Reconstruction	0.15	Sewer System Project
Highway 49 and Hodgson	0.044	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.939	\$61,321	\$5.06	0.006%

*Overall cost of projects identified as of January 1, 2016 by the community of Shoreview
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.939 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Shoreview

Shorewood ***
Project(s) COUNTY: Hennepin POPULATION*: 7,307 MEDIAN HOUSEHOLD INCOME (MHI)*: \$122,778
Cost Estimate (millions) *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Rehab aging infrastructure	0.28	Sewer System Project
Rehab aging infrastructure	0.35	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.63	\$41,142	\$13.61	0.011%

--- 10 - 20 yr. Need ---

Rehab aging infrastructure	0.35	Sewer System Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.35	\$22,856	\$7.56	0.006%

*Overall cost of projects identified as of January 1, 2016 by the community of Shorewood
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.98 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Shorewood

Shorewood Park Sanita COUNTY: Chisago POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community

--- Current Need ---

Shorewood Park Sanitary District	1.5	Wastewater Treatment Facilities Project
Shorewood Park Sanitary District	1.5	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3	\$195,912		

Overall cost of projects identified as of January 1, 2016 by the community of Shorewood Park Sanitary District as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3 (million)

Silver Bay COUNTY: Lake POPULATION*: 2,081 MEDIAN HOUSEHOLD INCOME (MHI)*: \$48,583
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Preliminary Treatment	0.85	Wastewater Treatment Facilities Project
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<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.85	\$55,508	\$43.14	0.089%

Overall cost of projects identified as of January 1, 2016 by the community of Silver Bay as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.85 (million)

Silver Creek Twp COUNTY: Wright POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Silver Creek Twp - Stewart River	6.25	SFY 2016 PPL Sewer System Project / Rank: 157
Silver Creek Twp - Stewart River	6.25	SFY 2016 PPL Treatment Facilities Project / Rank: 157

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
12.5	\$816,301		

Overall cost of projects identified as of January 1, 2016 by the community of Silver Creek Twp as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 12.5 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Silver Creek Twp - Cast	COUNTY: Lake	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Silver Creek Twp - Castle Danger 2		3.6	SFY 2016 PPL Sewer System Project / Rank: 280
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.6	\$235,095		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Silver Creek Twp - Castle Danger 2 as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			
			<i>3.6 (million)</i>

Slayton	COUNTY: Murray	POPULATION*:	2,162	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,568
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Inflow and Infiltration Correction		0.06		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
0.06	\$3,918	\$3.18		0.007%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Slayton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>0.06 (million)</i>

Sleepy Eye	COUNTY: Brown	POPULATION*:	3,597	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$43,942
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Ongoing Sewer Rehab		0.75		Sewer System Project	
Rehabilitation and Replacement of System		1.5		Wastewater Treatment Facilities Project	
Ongoing Sewer Rehab		0.75		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>		<i>Annual Household Cost as % MHI</i>	
3	\$195,912	\$112.81		0.257%	
--- 5 - 10 yr. Need ---					
Rehabilitation and Replacement of System		2		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2	\$130,608	\$75.21	0.171%

*Overall cost of projects identified as of January 1, 2016 by the community of Sleepy Eye
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5 (million)*

South Bend Twp	COUNTY: Blue Earth	POPULATION*: 1,623	MEDIAN HOUSEHOLD INCOME (MHI)*: \$50,379
<i>Project(s)</i>		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---
South Bend Twp 3.556 SFY 2016 PPL Sewer System Project / Rank: 254

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.556	\$232,221	\$356.05	0.707%

*Overall cost of projects identified as of January 1, 2016 by the community of South Bend Twp
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.556 (million)*

South St Paul	COUNTY: Dakota	POPULATION*: 20,283	MEDIAN HOUSEHOLD INCOME (MHI)*: \$55,309
<i>Project(s)</i>		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---
Sanitary Sewer Replacement/Relocation in RR Yard 4 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4	\$261,216	\$26.31	0.048%

*Overall cost of projects identified as of January 1, 2016 by the community of South St Paul
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of South St Paul

Spicer	COUNTY: Kandiyohi	POPULATION*: 1,263	MEDIAN HOUSEHOLD INCOME (MHI)*: \$41,375
<i>Project(s)</i>		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- 5 - 10 yr. Need ---
CSAH 10 Pump Station Improvement 0.6605 Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.6605	\$43,133	\$60.75	0.147%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Spicer
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.6605 (million)*

Spring Lake Park****	COUNTY: Hennepin	POPULATION*:	6,318	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Spring Lake Park Sewer Project		0.2		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.2	\$13,061	\$4.21			
<i>Overall cost of projects identified as of January 1, 2016 by the community of Spring Lake Park as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.2 (million)</i>					
<small>**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Spring Lake Park</small>					

Springfield	COUNTY: Brown	POPULATION*:	2,060	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$41,563
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
VanDusen Street		0.63		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.63	\$41,142	\$37.21	0.090%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Springfield as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.63 (million)</i>					

St Cloud	COUNTY: Stearns	POPULATION*:	65,986	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Reconstruct Streets & Utilities on 5th Ave. S. between TH		0.09		Sewer System Project	
Biosolids Improvements		18		SFY 2016 PPL Treatment Facilities Project / Rank: 163	
16th Street South between Clearwater Road & Roosevelt		0.35		Sewer System Project	
Lift Station #10 Abandonment		0.3		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

Area Between 37th Ave. N. & TH 15 from 3rd St. N. to B	0.264	Sewer System Project
Area Between 33rd & 37th Ave. N. from 1st to 3rd St. N.	0.536	Sewer System Project
Lift Station #5 Replacement	0.9	Sewer System Project
Area Between 33rd & 38th Ave. N. from 8th to 12th St. N	0.8	Sewer System Project
4th Avenue SE between East Street Germain and TH 23;	0.12	Sewer System Project
St. Cloud - Main lift station improvements	8	SFY 2016 PPL Sewer System Project / Rank: 164
Utilities along CSAH 74 from 33rd St. S. to 1800' South o	1.375	Sewer System Project
5th Avenue SE Between TH 23 and 7th Street SE	0.28	Sewer System Project
Sanitary Sewer & Water Main along CSAH 136 from 33r	0.5	Sewer System Project
Install Utilities along CSAH 74 from Sonte Gate N. to 42n	0.6	Sewer System Project
Area between 7th Ave. S. and Learwater Rd from 16th to	1	Sewer System Project
Utility Extension through Stone Gate from 33rd St. S. to C	0.6	Sewer System Project
Wastewater Flow Diversion Project	1.75	Sewer System Project
Wastewater Guaranteed Savings Performance Project	7.5	Wastewater Treatment Facilities Project
Area between 30th and 32nd Ave. N. from 5th to 12th St.	1.08	Sewer System Project
St. Cloud - Interceptor	7.5	SFY 2016 PPL Sewer System Project / Rank: 127
Area between Kilian Blvd. & 12th Ave. SE and between	1.1	Sewer System Project
Main Lift Station Rehabilitation Project	3.5	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
56.145	\$3,666,496	\$118.65
--- 5 - 10 yr. Need ---		
24th ST. S. from Cooper Ave. S. to CR 136	0.38	Sewer System Project
25th St. S. from CR 136 to W. St. Germain St.	0.315	Sewer System Project
24th St. S. from Clearwater Rd. to Cooper Ave. S.	0.38	Sewer System Project
Design and Construction of West Airport Interceptor Sew	7.5	Sewer System Project
Street Connection Between heatherwood Road & 8th Ave	1	Sewer System Project

* Pop. & MHI from 2010 Census and ACS.
Not all communities provided MHI and
Special Districts & Unsewered Area values
are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there
are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual
household debt service costs will overlap and combine where there are 20 yr. repayment
periods.

*** Per household residential share of 20 year debt service for
projects indicated; does not include community operation and
maintenance costs or existing wastewater infrastructure debt
service payments where applicable. Also per household cost
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Wastewater Treatment Facility Expansion -- Phase II	6.63	Wastewater Treatment Facilities Project
40th street South between CSAH 75 and Cooper Avenue	0.75	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
16.955	\$1,107,230	\$35.83	

*Overall cost of projects identified as of January 1, 2016 by the community of St Cloud
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 73.1 (million)*

St Francis COUNTY: Anoka POPULATION*: 7,026 MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---
St. Francis 24 SFY 2016 PPL Treatment Facilities Project / Rank: 183

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
24	\$1,567,297	\$532.29	

*Overall cost of projects identified as of January 1, 2016 by the community of St Francis
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 24 (million)*

St Francis - East & Wes COUNTY: Anoka POPULATION*: 7,218 MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---
TH 47 Sewer & Water Extension 2.73 SFY 2016 PPL Sewer System Project / Rank: 329

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.73	\$178,280		

*Overall cost of projects identified as of January 1, 2016 by the community of St Francis - East & West Facilities
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.73 (million)*

St James COUNTY: Watonwan POPULATION*: 4,573 MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,347
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Rehabilitate Collection System 2.8 SFY 2016 PPL Sewer System Project / Rank: 46

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
 2.8 \$182,851 \$77.26 0.170%

*Overall cost of projects identified as of January 1, 2016 by the community of St James
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.8 (million)*

St Joseph COUNTY: Stearns POPULATION*: 6,383 MEDIAN HOUSEHOLD INCOME (MHI)*: \$62,639

Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

South West Trunk Sewer 3.841 Sewer System Project
 Sewer Extension to Gateway Commons 0.989 Sewer System Project
 Northland Heights Phase II 0.475 Sewer System Project
 First Ave NE Improvements 0.203 Sewer System Project

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
 5.508 \$359,695 \$166.78 0.266%

*Overall cost of projects identified as of January 1, 2016 by the community of St Joseph
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.508 (million)*

St Louis County - Midw COUNTY: St Louis POPULATION*: MEDIAN HOUSEHOLD INCOME (MHI)*:

Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Rehab. Collection System 2.3 Sewer System Project

Subtotal of Cost Estimates (millions) *Project Annual Debt Service*** *Annual 20 yr. Household Cost**** *Annual Household Cost as % MHI*
 2.3 \$150,199

*Overall cost of projects identified as of January 1, 2016 by the community of St Louis County - Midway Township
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.3 (million)*

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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St Louis Park	*****	COUNTY: Hennepin	POPULATION*: 45,043	MEDIAN HOUSEHOLD INCOME (MHI)*: \$62,694
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Sanitary Sewer project LS#2 & FM Rehab		0.475		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.475	\$31,019	\$1.24	0.002%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of St Louis Park as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.475 (million)</i>				
<small>**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of St Louis Park</small>				

St Martin		COUNTY: Stearns	POPULATION*: 312	MEDIAN HOUSEHOLD INCOME (MHI)*: \$63,977
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Wastewater Treatment Improvements		0.12		SFY 2016 PPL Sewer System Project / Rank: 150
Wastewater Treatment Improvements		0.1		SFY 2016 PPL Sewer System Project / Rank: 150
Wastewater Treatment Improvements		3		SFY 2016 PPL Treatment Facilities Project / Rank: 150
St. Martin		2.506		SFY 2016 PPL Sewer System Project / Rank: 150
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5.726	\$373,931	\$2,421.14	3.784%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of St Martin as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.726 (million)</i>				

St Michael		COUNTY: Wright	POPULATION*: 15,896	MEDIAN HOUSEHOLD INCOME (MHI)*: \$86,163
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
2014 NE Downtown Street & Utility Improvement Project		0.267		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.267	\$17,436	\$2.90	0.003%	
--- 5 - 10 yr. Need ---				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

Collection System Interceptor Sewer for Complete Build o	23.778	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>
23.778	\$1,552,800	\$257.84
		<i>Annual Household Cost as % MHI</i>
		0.299%
<i>Overall cost of projects identified as of January 1, 2016 by the community of St Michael as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
		24.045 (million)

St Paul	****	COUNTY: Ramsey	POPULATION*: 283,991	MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,939
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Sewer System Major Rehab and Repairs (5-10 years)			60.9	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
60.9	\$3,977,017	\$29.59	0.064%	
--- 5 - 10 yr. Need ---				
Sewer System Rehabilitation and Major Repairs (10-20 ye			138	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
138	\$9,011,959	\$67.05	0.146%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of St Paul as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				
				198.9 (million)
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of St Paul				

St Stephen		COUNTY: Stearns	POPULATION*: 808	MEDIAN HOUSEHOLD INCOME (MHI)*: \$72,019
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
St. Stephen			4.759	SFY 2016 PPL Sewer System Project / Rank: 285
St. Stephen			4.759	SFY 2016 PPL Treatment Facilities Project / Rank: 285
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
9.518	\$621,564	\$1,870.93	2.598%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of St Stephen as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				
				9.518 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Staples	COUNTY: Todd	POPULATION*:	3,103	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Northwest Area Improvement		0.75		Sewer System Project	
Wastewater Plant Upgrade		6.734		SFY 2016 PPL Treatment Facilities Project / Rank:	244
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
7.484	\$488,736		\$302.31		
--- 5 - 10 yr. Need ---					
Wastewater Pumping Station and Sanitary Sewer West T.		0.5		Sewer System Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
0.5	\$32,652		\$20.20		
Overall cost of projects identified as of January 1, 2016 by the community of Staples					
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					7.984 (million)

Starbuck	COUNTY: Pope	POPULATION*:	1,234	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$36,289
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Lift Station Improvements		0.075		Sewer System Project	
Wastewater Treatment Facilities Improvements		0.15		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual	20 yr. Household Cost***	Annual Household Cost as % MHI	
0.225	\$14,693		\$18.84	0.052%	
Overall cost of projects identified as of January 1, 2016 by the community of Starbuck					
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs					0.225 (million)

Stephen	COUNTY: Marshall	POPULATION*:	720	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$51,771
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab/Expand Existing Pond System		1.7		SFY 2016 PPL Treatment Facilities Project / Rank:	216

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.7	\$111,017	\$299.15	0.578%
--- 5 - 10 yr. Need ---			
1920 Sewer System Replacement	1.8	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.8	\$117,547	\$316.74	0.612%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Stephen as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			
			<i>3.5 (million)</i>

Stewart	COUNTY: McLeod	POPULATION*:	642	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$50,446
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
2012-2013 Infrastructure Improvements		3.676		Sewer System Project	
Stewart		1.4		SFY 2016 PPL Sewer System Project / Rank: 91	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
5.076	\$331,483	\$1,188.59	2.356%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Stewart as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>5.076 (million)</i>

Stewartville	COUNTY: Olmsted	POPULATION*:	5,902	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,605
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
NW Sanitary Sewer Extension		0.85		Sewer System Project	
Stewartville		0.8195		SFY 2016 PPL Treatment Facilities Project / Rank: 134	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
1.6695	\$109,025	\$37.97	0.083%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Stewartville as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
					<i>1.6695 (million)</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Taconite	COUNTY: Itasca	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---				
Taconite		2.35	SFY 2016 PPL Sewer System Project / Rank: 97	
Highway 169 Utility Replacement		0.175	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.525	\$164,893			
<i>Overall cost of projects identified as of January 1, 2016 by the community of Taconite as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.525 (million)</i>				

Taylor Falls	COUNTY: Chisago	POPULATION*:	929	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$41,625
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>		
--- Current Need ---					
Business Park Improvements		0.519154	Sewer System Project		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.519154	\$33,903		\$69.98	0.168%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Taylor Falls as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5192 (million)</i>					

Thief River Falls	COUNTY: Pennington	POPULATION*:	8,563	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,306
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>		
--- Current Need ---					
Nelson Drive Infrastructure		0.2	Sewer System Project		
West 1st Street Extension		0.25	Sewer System Project		
Alice Drive Sewer Extension		0.1	Sewer System Project		
County Rd. 62 Utility Imp		0.3	Sewer System Project		
Highway 1 East Utilities Imp		0.2	Sewer System Project		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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MMCDC 40 Unit Housing Development 0.15 Sewer System Project

*Subtotal of Cost Estimates (millions) Project Annual Debt Service** Annual 20 yr. Household Cost*** Annual Household Cost as % MHI*
 1.2 \$78,365 \$17.73 0.046%

*Overall cost of projects identified as of January 1, 2016 by the community of Thief River Falls
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.2 (million)*

Tonka Bay ******** **COUNTY: Hennepin** **POPULATION*: 1,378** **MEDIAN HOUSEHOLD INCOME (MHI)*: \$106,083**

Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Sanitary Sewer Replacement 0.887 Sewer System Project
 Sanitary Sewer Replacement 1.271 Sewer System Project
 Sewer Lining 0.093 Sewer System Project
 Manhole Cover Replacement 0.02 Sewer System Project
 Sanitary Sewer Replacement 1.383 Sewer System Project
 Inflow/Infiltration Correction 0.105 Sewer System Project
 Lift station Pump Replacement 0.019 Sewer System Project

*Subtotal of Cost Estimates (millions) Project Annual Debt Service** Annual 20 yr. Household Cost*** Annual Household Cost as % MHI*
 3.778 \$246,719 \$319.49 0.301%

*Overall cost of projects identified as of January 1, 2016 by the community of Tonka Bay
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.778 (million)*

**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Tonka Bay

Tower **COUNTY: St Louis** **POPULATION*: 483** **MEDIAN HOUSEHOLD INCOME (MHI)*: \$33,690**

Project(s) *Cost Estimate (millions)* *Project Type / SFY 2016 PPL Listed - Rank*

--- Current Need ---

Tower - West T.H. 169 Service Extension 0.787 SFY 2016 PPL Sewer System Project / Rank: 286
 Tower - Hoo-Doo Point 0.6273 SFY 2016 PPL Sewer System Project / Rank: 270
 Tower - West T.H. 169 0.787 SFY 2016 PPL Sewer System Project / Rank: 290

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Hoo-Doo Point sewer extension 0.6273 SFY 2016 PPL Sewer System Project / Rank: 288

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.8286	\$184,719	\$538.02	1.597%

Overall cost of projects identified as of January 1, 2016 by the community of Tower as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.8286 (million)

Tower - Brietung Waste	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		Cost Estimate (millions)	Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Tower - Brietung Wastewater Board	1.163	SFY 2016 PPL Treatment Facilities Project / Rank: 92
Tower - Brietung Wastewater Board	1.163	SFY 2016 PPL Sewer System Project / Rank: 92

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.326	\$151,897		

Overall cost of projects identified as of January 1, 2016 by the community of Tower - Brietung Wastewater Board as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.326 (million)

Tracy	COUNTY: Lyon	POPULATION*:	2,056	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,708
Project(s)		Cost Estimate (millions)		Project Type / SFY 2016 PPL Listed - Rank	

--- Current Need ---

Tracy	3	SFY 2016 PPL Sewer System Project / Rank: 5
Replacement of Sanitary Sewer	2.124	SFY 2016 PPL Sewer System Project / Rank: 5
Replacement of Primary and Secondary Pond System	10	Wastewater Treatment Facilities Project
4th Street and Morgan Street	0.273	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
15.397	\$1,005,487	\$936.79	2.301%

Overall cost of projects identified as of January 1, 2016 by the community of Tracy as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 15.397 (million)

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Tri-City Joint Sewer Board	COUNTY: Faribault	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Pond Gate Replacements		0.0493	Wastewater Treatment Facilities Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.0493	\$3,219		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Tri-City Joint Sewer Board as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.0493 (million)</i>			

Trimont	COUNTY: Martin	POPULATION*:	619	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$36,406
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sewer System Rehab		5.5		SFY 2016 PPL Sewer System Project / Rank:	2
Trimont		3.799		SFY 2016 PPL Treatment Facilities Project / Rank:	2
Town Center		0.033		Sewer System Project	
2009-2011 Infrastructure Improvements		0.63		SFY 2016 PPL Treatment Facilities Project / Rank:	2
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
9.962	\$650,559	\$1,919.68	5.273%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Trimont as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.962 (million)</i>					

Trosky	COUNTY: Pipestone	POPULATION*:	102	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$51,667
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Trosky		1.5		SFY 2016 PPL Sewer System Project / Rank:	26
Trosky		1.5		SFY 2016 PPL Treatment Facilities Project / Rank:	26
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
3	\$195,912	\$3,751.51	7.261%		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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*Overall cost of projects identified as of January 1, 2016 by the community of Trosky
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3 (million)*

Twin Valley	COUNTY: Norman	POPULATION*: 833	MEDIAN HOUSEHOLD INCOME (MHI)*: \$29,205
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Twin Valley		0.4	SFY 2016 PPL Sewer System Project / Rank: 215
Herold Addition Sanitary Sewer Replacement		0.45	SFY 2016 PPL Sewer System Project / Rank: 215
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.85	\$55,508	\$111.02	0.380%

*Overall cost of projects identified as of January 1, 2016 by the community of Twin Valley
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.85 (million)*

Upsala	COUNTY: Morrison	POPULATION*: 529	MEDIAN HOUSEHOLD INCOME (MHI)*: \$40,000
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Sanitary Sewer Improvements		0.5	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.5	\$32,652	\$113.90	0.285%

*Overall cost of projects identified as of January 1, 2016 by the community of Upsala
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.5 (million)*

Vadnais Heights *****	COUNTY: Ramsey	POPULATION*: 12,313	MEDIAN HOUSEHOLD INCOME (MHI)*: \$72,485
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Sewer Main Pipe Relining Project		0.15	Sewer System Project
Sewer Main Pipe Relining Project		0.15	Sewer System Project
Sewer Main Pipe Relining Project		0.15	Sewer System Project

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Sewer main pipe relining project	0.15	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.6	\$39,182	\$6.77	0.009%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Vadnais Heights as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>			<i>0.6 (million)</i>
**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Vadnais Heights			

Verndale	COUNTY: Wadena	POPULATION*:	470	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$32,039
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer and Watermain Improvements Phase II an		2.6		SFY 2016 PPL Sewer System Project / Rank: 80	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
2.6	\$169,791	\$724.23	2.260%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Verndale as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>2.6 (million)</i>

Vernon Center	COUNTY: Blue Earth	POPULATION*:	307	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$40,179
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- 5 - 10 yr. Need ---					
2025 Street and Utility Improvements		0.5		SFY 2016 PPL Sewer System Project / Rank: 76	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>		
0.5	\$32,652	\$194.61	0.484%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Vernon Center as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					<i>0.5 (million)</i>

Victoria	COUNTY: Carver	POPULATION*:	7,143	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$111,755
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Lift Station #11 Improvements		0.15		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

Sewer Main Oversizing	0.161	Sewer System Project
Manhole Grouting	0.03	Sewer System Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***
0.341	\$22,269	\$8.29
Annual Household Cost as % MHI		
0.007%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Victoria as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>		
0.341 (million)		

Viking	COUNTY: Marshall	POPULATION*:	82	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$31,607
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Stabilization Ponds		1.162		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
1.162	\$75,883	\$1,707.37	5.402%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Viking as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
1.162 (million)					

Villard Area Lakes SD	COUNTY: Pope	POPULATION*:		MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Villard Area Lakes SD		4.4535		SFY 2016 PPL Treatment Facilities Project / Rank:	121
Villard Area Lakes SD		4.4535		SFY 2016 PPL Sewer System Project / Rank:	121
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
8.907	\$581,663				
<i>Overall cost of projects identified as of January 1, 2016 by the community of Villard Area Lakes SD as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>					
8.907 (million)					

Wabasha	COUNTY: Wabasha	POPULATION*:	2,532	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$43,157
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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--- Current Need ---

Reed Bed Removal and Replanting 0.047 Wastewater Treatment Facilities Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.047	\$3,069	\$2.19	0.005%

*Overall cost of projects identified as of January 1, 2016 by the community of Wabasha
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.047 (million)*

Waconia	****	COUNTY: Carver	POPULATION*: 10,429	MEDIAN HOUSEHOLD INCOME (MHI)*: \$79,760
Project(s)			<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

--- Current Need ---

Willowbrooke Lift Station	0.225	Sewer System Project
Pheasant Ridge Lift Station	0.25	Sewer System Project
1st Street	0.368	Sewer System Project
Lake Street and Sterling Hills Lift Stations.	0.13	Sewer System Project
L52 Wet Well Interior Conversion	0.12	Sewer System Project
Infrastructure Improvement 2020 Main Street	0.485	Sewer System Project
Infrastructure 2014 - Walnut, 3rd Street & 2nd Street	0.405	Sewer System Project
Infrastructure 2016 - Elm Street and 5th street	0.3	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.283	\$149,089	\$33.24	0.042%

--- 5 - 10 yr. Need ---

Spruce, 1st, 2nd & Orange	0.518	Sewer System Project
Infrastructure Improvement 2021 Olive Street	0.45	Sewer System Project
Infrastructure 2014 - sewer system - 3rd, 4th, Elm, 2nd, Pi	0.412	Sewer System Project
Infrastructure Improvement 20A - 3-1/2 Street - Maple	0.3	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.68	\$109,711	\$24.46	0.031%

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Waconia
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.963 (million)*

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Waconia

Wadena	COUNTY: Wadena	POPULATION*:	4,179	MEDIAN HOUSEHOLD INCOME (MHI)*:	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
SW Area			10	Sewer System Project	
Wadena		3.880605		SFY 2016 PPL Sewer System Project / Rank:	102
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
13.88061	\$906,460		\$410.58		

*Overall cost of projects identified as of January 1, 2016 by the community of Wadena
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 13.881 (million)*

Waite Park	COUNTY: Stearns	POPULATION*:	6,729	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$38,422
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
18th Ave. Improvements			0.25	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.25	\$16,326		\$4.07	0.011%	

*Overall cost of projects identified as of January 1, 2016 by the community of Waite Park
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.25 (million)*

Waldorf	COUNTY: Waseca	POPULATION*:	175	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$54,688
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Inflow & Infiltration Abatement Program			8.69	Sewer System Project	
Waldorf		1.312		SFY 2016 PPL Sewer System Project / Rank:	61
Waldorf Waste Water Treatment Facility			2	Wastewater Treatment Facilities Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community**

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
12.002	\$783,779	\$7,584.96	13.870%

*Overall cost of projects identified as of January 1, 2016 by the community of Waldorf
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 12.002 (million)*

Walker	COUNTY: Cass	POPULATION*:	926	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$34,545
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary sewer lining approx 3000 ft.		0.18		SFY 2016 PPL Sewer System Project / Rank:	108
Sanitary sewer extension to the Industrial Park		0.09		SFY 2016 PPL Sewer System Project / Rank:	108
Michigan Ave. Utility and Street Improvements		0.93		SFY 2016 PPL Sewer System Project / Rank:	108
Walker		4.007		SFY 2016 PPL Sewer System Project / Rank:	108
Lift Station Pumps Park and Upper		0.05		SFY 2016 PPL Sewer System Project / Rank:	108
2ND ST., 3RD ST., 4TH ST., 5TH ST., 6TH ST., Park A		2.5		SFY 2016 PPL Sewer System Project / Rank:	108
Minnesota Ave., 5th St. N., Front St., Alley		0.75		Sewer System Project	
2nd St. N., 2nd St. S. and Railroad Avenue		0.65		Sewer System Project	

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
9.157	\$597,989	\$1,109.67	3.212%

*Overall cost of projects identified as of January 1, 2016 by the community of Walker
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 9.157 (million)*

Walnut Grove	COUNTY: Redwood	POPULATION*:	812	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$34,280
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Wastewater Treatment Plant Rehab		2		SFY 2016 PPL Treatment Facilities Project / Rank:	24
Rehab collection system		2.902		SFY 2016 PPL Sewer System Project / Rank:	24

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.902	\$320,120	\$914.63	2.668%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*Overall cost of projects identified as of January 1, 2016 by the community of Walnut Grove
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.902 (million)*

Wanamingo	COUNTY: Goodhue	POPULATION*:	1,013	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$49,896
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Replacing Sewer Lines West Side		0.5		Sewer System Project	
Replace grit Loading Pumps		0.035		Wastewater Treatment Facilities Project	
Sewer Main Relining/Rehab Manholes		0.5		Sewer System Project	
Re-coat Fiberglass Roofs		0.06		Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
1.095	\$71,508		\$135.20	0.271%	

*Overall cost of projects identified as of January 1, 2016 by the community of Wanamingo
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.095 (million)*

Warren	COUNTY: Marshall	POPULATION*:	1,900	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,104
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Warren - Marshall		0.85		Sewer System Project	
Street Projects - Marshall		1.8		Sewer System Project	
NW Area		2.65		SFY 2016 PPL Sewer System Project / Rank: 83	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual</i>	<i>20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
5.3	\$346,111		\$389.38	0.863%	

*Overall cost of projects identified as of January 1, 2016 by the community of Warren
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.3 (million)*

Warroad	COUNTY: Roseau	POPULATION*:	2,039	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$45,307
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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--- Current Need ---

Rehab/expand existing system	8	SFY 2016 PPL Treatment Facilities Project / Rank:	193
Warroad	4.277313	SFY 2016 PPL Sewer System Project / Rank:	193
Wastewater Pond Expansion	0.8	Wastewater Treatment Facilities Project	

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
13.07731	\$854,002	\$902.11	1.991%

**Overall cost of projects identified as of January 1, 2016 by the community of Warroad
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 13.077 (million)**

Waseca COUNTY: Waseca POPULATION*: 9,405 MEDIAN HOUSEHOLD INCOME (MHI)*: \$45,539
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

West Interchange Sanitary Sewer	1.85	Sewer System Project	
Elm Avenue (Old Hwy 14) Sanitary Sewer Improvements	3.751	SFY 2016 PPL Treatment Facilities Project / Rank:	41

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
5.601	\$365,768	\$77.40	0.170%

**Overall cost of projects identified as of January 1, 2016 by the community of Waseca
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.601 (million)**

Watertown COUNTY: Carver POPULATION*: 4,140 MEDIAN HOUSEHOLD INCOME (MHI)*: \$65,202
Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Watertown wastewater treatment facility	12	SFY 2016 PPL Treatment Facilities Project / Rank:	187
Lift Station A	0.5	Sewer System Project	
Watertown	9.6	SFY 2016 PPL Sewer System Project / Rank:	187

Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI
22.1	\$1,443,220	\$714.86	1.096%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*Overall cost of projects identified as of January 1, 2016 by the community of Watertown
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 22.1 (million)*

Waterville	COUNTY: Le Sueur	POPULATION*:	1,808	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$46,167
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Sanitary Sewer Lining Improvements		0.25		Sewer System Project	
Rehab collection system, lift station & extension		2.16		SFY 2016 PPL Sewer System Project / Rank: 145	
Waterville		13.422223		SFY 2016 PPL Treatment Facilities Project / Rank: 145	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
15.83222	\$1,033,908	\$917.67	1.988%		

*Overall cost of projects identified as of January 1, 2016 by the community of Waterville
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 15.832 (million)*

Waubun	COUNTY: Mahanomen	POPULATION*:	435	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$33,083
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehab of the existing Treatment system		3.8		SFY 2016 PPL Treatment Facilities Project / Rank: 97	
Waubun		3.2		SFY 2016 PPL Sewer System Project / Rank: 87	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
7	\$457,128	\$1,987.51	6.008%		

*Overall cost of projects identified as of January 1, 2016 by the community of Waubun
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7 (million)*

Waverly	COUNTY: Wright	POPULATION*:	1,127	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$56,333
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
North Shore Drive Utility Improvements		9		Sewer System Project	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Waverly	0.61421	SFY 2016 PPL Sewer System Project / Rank: 115		
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
9.61421	\$627,847	\$989.60	1.757%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Waverly as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>				9.6142 (million)

Wayzata	****	COUNTY: Hennepin	POPULATION*:	3,717	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$66,444
Project(s)			<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---						
Rehabilitation/ I & I Reduction			0.04		Sewer System Project	
Sewer Collection System CIP			0.4		Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>			
0.44	\$28,734	\$13.87	0.021%			
<i>Overall cost of projects identified as of January 1, 2016 by the community of Wayzata as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs</i>						0.44 (million)
<small>**** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of Wayzata</small>						

Western Lake Superior	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:			
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>			
--- Current Need ---						
WLSSD - Pump Station Improvements		24.8	SFY 2016 PPL Sewer System Project / Rank: 98			
Treatment Plant Improvements - Phase I		26.846	SFY 2016 PPL Treatment Facilities Project / Rank: 95			
Interceptor Improvements - Phase I		23.7	SFY 2016 PPL Sewer System Project / Rank: 6			
Biogas Fueled Engine Generator/Heat Recovery		24.5	Wastewater Treatment Facilities Project			
WLSSD - Interceptor Improvements Phase I (PPL funded)		4.36896	SFY 2016 PPL Sewer System Project / Rank: 3			
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>			
104.215	\$6,805,659					
--- 5 - 10 yr. Need ---						
Treatment Plant Improvements - Phase II		15.779	SFY 2016 PPL Treatment Facilities Project / Rank: 96			

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community

Interceptor Improvements - Phase II	43.312	Sewer System Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
59.091	\$3,858,882		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Western Lake Superior Sanitary District (WLSSD as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 163.31 (million)</i>			

Whalan	COUNTY: Fillmore	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Whalan Unsewered Collection		0.5063	Sewer System Project
Whalan Unsewered Treatment		0.5063	Wastewater Treatment Facilities Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.0126	\$66,127		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Whalan as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.0126 (million)</i>			

White Bear Lake ****	COUNTY: Ramsey	POPULATION*: 23,797	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
SCADA Upgrade		0.05	Sewer System Project
South Shore Boulevard Extension		0.25	Sewer System Project
Main Repaires as Part of Street Reconstruction		0.25	Sewer System Project
Service WYE Replacement Program		0.375	Sewer System Project
Sanitary Sewer Lining		0.375	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.3	\$84,895	\$7.28	

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

Overall cost of projects identified as of January 1, 2016 by the community of White Bear Lake as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.3 (million)

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of White Bear Lake

White Bear Township ***	COUNTY: Ramsey	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Lift Station Rehabilitation		0.7	Sewer System Project
White Bear Twp		1.5	SFY 2016 PPL Sewer System Project / Rank: 224
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.2	\$143,669		

Overall cost of projects identified as of January 1, 2016 by the community of White Bear Township as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.2 (million)

*** Metropolitan Council Environmental Services (MCES) provides wastewater treatment for the City of White Bear Township

White Twp - Gardendale	COUNTY: St Louis	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
White Twp - Gardendale Utility Improv. Proj		0.3168	SFY 2016 PPL Sewer System Project / Rank: 21
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.3168	\$20,688		

Overall cost of projects identified as of January 1, 2016 by the community of White Twp - Gardendale Utility Improv. Proj as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.3168 (million)

Whitefield Township -	COUNTY: Kandiyohi	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Unsewered Area Regionalize with Blomkest		1.11	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.11	\$72,487		

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Whitefield Township - Svea
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.11 (million)*

Willmar	COUNTY: Kandiyohi	POPULATION*: 19,459	MEDIAN HOUSEHOLD INCOME (MHI)*: \$38,610	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
4 Lift Station Replacements		1.75		Sewer System Project
Lakeland Drive Interceptor Project		3.252		Sewer System Project
Willmar		0.95		SFY 2016 PPL Sewer System Project / Rank: 44
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
5.952	\$388,690	\$41.82	0.108%	

*Overall cost of projects identified as of January 1, 2016 by the community of Willmar
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.952 (million)*

Willow River	COUNTY: Pine	POPULATION*: 401	MEDIAN HOUSEHOLD INCOME (MHI)*: \$31,833	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Rehab and expand Treatment Facilities		2.23		Wastewater Treatment Facilities Project
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI	
2.23	\$145,628	\$567.38	1.782%	

*Overall cost of projects identified as of January 1, 2016 by the community of Willow River
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.23 (million)*

Winnebago	COUNTY: Faribault	POPULATION*: 1,514	MEDIAN HOUSEHOLD INCOME (MHI)*: \$37,125	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
NW Area Street and Utility Improvements		1.925		SFY 2016 PPL Sewer System Project / Rank: 20

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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**Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions
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Alphabetical by Name of Community

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.925	\$125,710	\$164.45	0.443%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Winnebago as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.925 (million)</i>			

Winona	COUNTY: Winona	POPULATION*: 27,671	MEDIAN HOUSEHOLD INCOME (MHI)*: \$35,964
Project(s)	<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---			
Aeration Equipment Replacement	0.21	Wastewater Treatment Facilities Project	
Addition to Administration Building	0.2	Wastewater Treatment Facilities Project	
Screw Pump Equipment	0.1	Wastewater Treatment Facilities Project	
Primary Clarifier - Replace Driver	0.63	Wastewater Treatment Facilities Project	
Digester Boiler	0.3	Wastewater Treatment Facilities Project	
Turbine Engine	0.06	Wastewater Treatment Facilities Project	
Lift Station #9 Replacement	0.2	Sewer System Project	
Bar Screen	0.175	Wastewater Treatment Facilities Project	
Lift Station #4 Controls	0.754	Sewer System Project	
Trickling Filter, Media Replacement	0.25	Wastewater Treatment Facilities Project	
Lift Station #6 Electrical Upgrade	0.2	Sewer System Project	
Digester Building Ventilation Upgrade	0.09	Wastewater Treatment Facilities Project	
Replace Grit Washer	0.15	Wastewater Treatment Facilities Project	
Digester #1 Repair	0.35	Wastewater Treatment Facilities Project	
Belt Press Replacement	0.9	Wastewater Treatment Facilities Project	
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
4.569	\$298,374	\$23.48	0.065%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Appendix 2: 2015 Wastewater Infrastructure Needs Survey (WINS) - Descriptions of Individual Community Needs, Projects Costs and Affordability

Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Winona
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 4.569 (million)*

Winsted	COUNTY: McLeod	POPULATION*: 2,360	MEDIAN HOUSEHOLD INCOME (MHI)*: \$51,496	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Sanitary Sewer Extension West, East and North		1.6		Sewer System Project
Interceptor Rehabilitation		0.15		Sewer System Project
WWTF Upgrade		4.4		SFY 2016 PPL Treatment Facilities Project / Rank: 235
Upgrade Two Lift Stations		0.43		SFY 2016 PPL Sewer System Project / Rank: 235
Kiingsley Street Improvements		0.154		Sewer System Project
CIPP Lining		0.1		Sewer System Project
Industrial Park Expansion		0.64		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
7.474	\$488,082	\$459.01	0.891%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Winsted as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 7.474 (million)</i>				

Winton	COUNTY: St Louis	POPULATION*: 152	MEDIAN HOUSEHOLD INCOME (MHI)*: \$26,000	
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---				
Winton Wastewater Collection Improvements Phase II		0.45		Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>	
0.45	\$29,387	\$339.08	1.304%	
<i>Overall cost of projects identified as of January 1, 2016 by the community of Winton as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.45 (million)</i>				

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

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Worthington	COUNTY: Nobles	POPULATION*: 12,531	MEDIAN HOUSEHOLD INCOME (MHI)*: \$42,472
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
2019 Sewer Improvements		0.41	Sewer System Project
2018 Sewer Improvements		0.43	Sewer System Project
North Humiston sewer extension		0.4	Sewer System Project
2016 Sewer Improvements		0.4	Sewer System Project
Flower Lane sewer extension		0.11	Sewer System Project
2017 Sewer Improvements		0.43	Sewer System Project
East district lift station & force main		1.15	Sewer System Project
south district lift station & forcemain		0.28	Sewer System Project
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
3.61	\$235,748	\$44.78	0.105%
<i>Overall cost of projects identified as of January 1, 2016 by the community of Worthington as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 3.61 (million)</i>			

Wrenshall	COUNTY: Carlton	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>
--- Current Need ---			
Wrenshall		0.09	SFY 2016 PPL Sewer System Project / Rank: 16
<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
0.09	\$5,877		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Wrenshall as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.09 (million)</i>			

Wright	COUNTY: Carlton	POPULATION*:	MEDIAN HOUSEHOLD INCOME (MHI)*:
Project(s)		<i>Cost Estimate (millions)</i>	<i>Project Type / SFY 2016 PPL Listed - Rank</i>

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

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Alphabetical by Name of Community**

--- Current Need ---

Wright	0.8	SFY 2016 PPL Sewer System Project / Rank: 153
Wright	0.8	SFY 2016 PPL Treatment Facilities Project / Rank: 153

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
1.6	\$104,486		

*Overall cost of projects identified as of January 1, 2016 by the community of Wright
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 1.6 (million)*

Wyoming COUNTY: Chisago POPULATION*: 7,730 MEDIAN HOUSEHOLD INCOME (MHI)*: \$76,462

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Citgo lift Station and Force Main Improvement	0.6	Sewer System Project
Viking Boulevard/Fallbrook Avenue Trunk Sewer Upgrad	0.6	Sewer System Project
Railroad Lift Station and Trunk Sewer Improvements	0.99	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
2.19	\$143,016	\$44.75	0.059%

*Overall cost of projects identified as of January 1, 2016 by the community of Wyoming
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 2.19 (million)*

Zimmerman COUNTY: Sherburne POPULATION*: 5,091 MEDIAN HOUSEHOLD INCOME (MHI)*: \$66,940

Project(s) Cost Estimate (millions) Project Type / SFY 2016 PPL Listed - Rank

--- Current Need ---

Upgrad to Accept Leachate	4.1	Wastewater Treatment Facilities Project
	1	Sewer System Project

<i>Subtotal of Cost Estimates (millions)</i>	<i>Project Annual Debt Service**</i>	<i>Annual 20 yr. Household Cost***</i>	<i>Annual Household Cost as % MHI</i>
5.1	\$333,051	\$156.12	0.233%

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

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Alphabetical by Name of Community

*Overall cost of projects identified as of January 1, 2016 by the community of Zimmerman
as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 5.1 (million)*

Zumbro Falls	COUNTY: Wabasha	POPULATION*:	166	MEDIAN HOUSEHOLD INCOME (MHI)*:	\$50,000
Project(s)		<i>Cost Estimate (millions)</i>		<i>Project Type / SFY 2016 PPL Listed - Rank</i>	
--- Current Need ---					
Rehabilitation and Expansion of Stabilization Pond		0.75		Wastewater Treatment Facilities Project	
Subtotal of Cost Estimates (millions)	Project Annual Debt Service**	Annual 20 yr. Household Cost***	Annual Household Cost as % MHI		
0.75	\$48,978	\$518.59	1.037%		
<i>Overall cost of projects identified as of January 1, 2016 by the community of Zumbro Falls as necessary to address: Current (0-5 year), 5-10 year, and 10-20 year wastewater infrastructure needs 0.75 (million)</i>					

* Pop. & MHI from 2010 Census and ACS. Not all communities provided MHI and Special Districts & Unsewered Area values are missing

** Assuming twenty (20) year debt service at market rate of 2.69%. Note that where there are combinations of: Current (0-5 yrs.), 5-10 yr., and/or 10-20 yr. projects the annual household debt service costs will overlap and combine where there are 20 yr. repayment periods.

*** Per household residential share of 20 year debt service for projects indicated; does not include community operation and maintenance costs or existing wastewater infrastructure debt service payments where applicable. Also per household cost may be higher for localized projects funded by assessments.

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Priority Order

Rank	Project Name	Project Description	Project Number	Priority Points	Estimated Project Cost
1	Red Rock Twp - Nicolville	Unsewered, ph 2 corrective action	279497	100	\$197,788
2	Trimont	Rehab collection and treatment system	279800	93	\$7,599,000
3	WLSSD - Interceptor Improvements	Rehab interceptors	279633	91	\$15,968,960
4	Minneota	Rehab collection system	280270	88	\$5,000,000
5	Tracy	Rehab/expand existing system	279575	88	\$12,000,000
6	Lakefield	Rehab/expand system, advanced trmt	280274	88	\$4,369,000
7	Central Iron Range SD	Rehab treatment, advanced treatment	279367	86	\$4,710,286
8	Gilbert	Rehab treatment, advanced treatment	280255	86	\$7,768,000
9	Ogilvie	Rehab collection, connect to Mora	279676	85	\$5,861,000
10	Scanlon	Rehab collection system	280162	83	\$276,988
11	Detroit Lakes	Rehab treatment, advanced treatment	280313	83	\$30,500,000
12	Mountain Lake	New WWTF	279868	83	\$13,445,000
13	DeGraff	Unsewered, regionalize with Murdock	280174	81	\$4,905,000
14	Rice Lake Twp	Rehab collection, remove lift station	280161	81	\$410,000
15	Proctor	Rehab collection system.	280185	81	\$1,250,000
16	Wrenshall	Rehab Pioneer Drive	279812	81	\$90,000
17	Morgan	Rehab collection and treatment system	279771	81	\$13,600,000
18	Sacred Heart	Rehab collection and treatment	279877	81	\$5,661,000
19	Seaforth	Corrective action	279393	80	\$820,000
20	Winnebago	Rehab collection system in NW	280332	79	\$1,860,000
21	White Twp - Gardendale Utility Improv. Proj	Rehab collection system	279808	78	\$316,800
22	Pipestone	Rehab collection system	280334	78	\$893,050
23	Steele County - Pratt	Unsewered, potential SSTS	280263	76	\$0
24	Walnut Grove	Rehab collection and treatment system	279802	76	\$6,659,925
25	Granite Falls 1	Biosolids storage and I/I removal	280214	74	\$3,000,000
26	Trosky	Unsewered, potential SSTS	279723	73	\$2,485,543
27	Ellendale	Rehab and expand sewer system	279447	73	\$960,000
28	Loretto	Regionalization with MCES	279890	73	\$1,262,500
29	Oronoco Twp - Cedar Beach	Unsewered, potential SSTS	280230	72	\$1,519,950
30	Jackson - unsewered	Unsewered, connect to WWTF	279859	71	\$2,236,346
31	Minneapolis - Flow Meter	Plan/design meter improvements	279821	71	\$900,000
32	Minneapolis - Inflow Disconnect	Inflow disconnect from storm sewer	279726	71	\$6,600,000
33	Minneapolis - MN320	Plan/design collection rehab	279729	71	\$750,000
34	Granite Falls 2	Rehab/expand WWTF	280215	69	\$5,390,000
35	Summit Lake Twp - Reading	Unsewered, potential SSTS	280149	68	\$0
36	Lincoln Pipestone - WTP	WTP improvements, advanced treatment	280299	68	\$2,700,000
37	Maynard	Rehab collection system	280038	68	\$2,875,000
38	Pipestone - WTP	WTP improvements, advanced treatment	280339	68	\$9,660,000
39	Canby	Rehab collection system	280222	68	\$4,300,000
40	Currie	Rehab collection system	280311	68	\$1,852,460
41	Waseca	Rehab collection system	280300	68	\$3,751,026
42	Crosby	Rehab collection and lift stations	280271	68	\$1,592,676
43	Dawson	Rehab collection system	279752	68	\$5,200,000
44	Willmar	Rehab lift stations	280312	66	\$950,000
45	Afton	Unsewered, collection and treatment	279825	66	\$8,112,700
46	St. James	Rehab collection system	280304	66	\$2,800,000
47	Chisholm - Lakeview	Rehab collection system	280310	66	\$4,212,696
48	Moose Lake	Rehab facility, advanced treatment	280289	66	\$3,009,316
49	Comfrey	Rehab collection system	279866	66	\$3,438,000
50	Ortonville	Rehab collection system	279787	65	\$895,000
51	Cascade Twp - Hallmark Terrace	Remove pond, connect to Rochester	280054	64	\$500,000
52	Oronoco - Area B	Unsewered, connect to WWTF	279777	63	\$10,490,000
53	Lamberton	Rehab collection system	279865	63	\$3,052,100
54	Hutchinson	Rehab treatment, advanced treatment	279688	63	\$613,800
55	Lucan	Rehab/expand existing ponds	272586	63	\$2,450,000
56	Pelican Rapids	Rehab collection system, Ph 2	279468	63	\$3,955,000
57	Cuyuna	Rehab collection system	280053	63	\$1,340,000
58	Bemidji Twp	Unsewered, potential SSTS	279887	61	\$350,000
59	Hopkins-LS #1 Abandonment	Abandon LS, install new collection	279694	61	\$286,185
60	Newport	Rehab collection system	279656	61	\$950,000
61	Waldorf	Rehab collection system	279619	61	\$1,312,000

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Priority Order

Rank	Project Name	Project Description	Project Number	Priority Points	Estimated Project Cost
62	Chisholm	Rehab collection system	279567	61	\$907,030
63	Eveleth	Rehab collection system, Garfield St	280275	61	\$189,707
64	Lake Park	Rehab collection system	279765	61	\$1,783,000
65	Grove City	Rehab collection and treatment system	279549	61	\$11,482,000
66	Easton	Rehab collection system	279652	61	\$529,888
67	Lake of the Woods Co. - Wheelers Point	Unsewered, collection and treatment	279475	61	\$8,609,000
68	Bethel	Replace pond liner, monitoring well	279835	60	\$190,000
69	Fountain	Treatment facility corrective action	279411	60	\$183,500
70	Dalton	Rehab collection and treatment	279750	60	\$2,450,000
71	Blackduck	Rehab collection and treatment system	279582	60	\$3,174,894
72	Erskine	Rehab collection and treatment systems	279755	60	\$410,000
73	Albert Lea - Stables Area	Unsewered, connect to Albert Lea	279701	59	\$1,778,000
74	Miltona Twp - South East	Unsewered, potential SSTS	279817	59	\$0
75	Pope County - Clearwater Bay	Unsewered, potential SSTS	280060	59	\$732,434
76	Vernon Center	Rehab collection and treatment	279640	59	\$399,492
77	Hawley	Rehab collection system	279763	59	\$716,000
78	Dumont	Treatment facility corrective action	280240	58	\$3,200,000
79	Ely	Rehab collection system	279370	58	\$2,106,750
80	Cromwell	Rehab existing system	279442	58	\$350,000
81	Hibbing	Rehab pump station, advanced treatment	279668	58	\$1,506,000
82	Rush City	Rehab collection system	279849	58	\$863,688
83	Warren	Rehab collection system	280329	58	\$2,647,307
84	Elbow Lake - Division Street	Rehab collection system	279446	58	\$408,440
85	Keewatin	Rehab treatment system	280253	58	\$4,997,000
86	Clarissa	Rehab collection system	280277	58	\$3,000,000
87	Waubun	Rehab collection system	280231	58	\$3,927,000
88	Miltona	Rehab/expand collection and treatment	279852	58	\$2,536,000
89	Borup	Rehab collection and treatment system	280246	58	\$2,510,990
90	Clitherall	Unsewered, collection/trmt with ponds	279536	57	\$1,818,000
91	Stewart	Rehab collection system	279867	57	\$1,400,000
92	Tower - Brietung Wastewater Board	Rehab collection and treatment system	272308	57	\$2,327,300
93	Eagle Bend	Rehab collection system	280278	57	\$1,490,202
94	Ham Lake	Unsewered, potential SSTS	279654	56	\$2,000,000
95	WLSSD - Treatment Plant Imp 1	Rehab treatment system	279659	56	\$13,600,000
96	WLSSD - Treatment Plant Imp 2	Rehab treatment, energy improvements	280285	56	\$47,799,104
97	Taconite	Rehab collection system	280303	56	\$2,350,000
98	WLSSD - Pump Station Improvements	Rehab pump stations	279663	56	\$28,613,000
99	Kasson	Expand WWTF, regionalize with Mantorville	280317	56	\$6,016,500
100	Brooten	Rehab collection system	280309	56	\$1,411,000
101	Minnehaha Creek WD - Stormwater	Blake Road diversion and treatment area	280262	56	\$2,546,386
102	Wadena	Rehab collection system	279826	56	\$4,102,252
103	Le Center	Rehab collection system	279784	56	\$7,541,000
104	Cass County - Stony Point	Unsewered, potential SSTS	279845	55	\$1,200,000
105	Ortonville - McCloud Street	Rehab collection system	279636	55	\$367,500
106	Brownton	Rehab collection system	280295	55	\$4,000,000
107	New York Mills	Rehab collection system	280281	55	\$1,305,832
108	Walker	Rehab collection system	279875	55	\$4,007,400
109	Kabetogama Twp - Puck's Point	Unsewered, LSTS spray/subsurface	279610	53	\$4,270,670
110	Austin Twp - Turtle Creek 2	Unsewered, potential SSTS	280190	53	\$1,857,500
111	Grand Lake Twp - Caribou Lake	Unsewered, potential SSTS	279366	53	\$1,986,540
112	Morris - WTP	WTP improvements, advanced treatment	280284	53	\$1,675,000
113	Sandstone	Expand existing system	279518	53	\$16,936,000
114	Osakis	Rehab collection system	280338	53	\$2,822,900
115	Waverly	Rehab collection system, N. Shore Drive	280272	53	\$2,555,416
116	Detroit Lakes	Replace lift station	279739	53	\$155,000
117	Barnesville	Rehab collection system	280307	53	\$2,210,465
118	Darwin	Rehab collection and treatment	279562	53	\$2,841,375
119	Hallock	Rehab collection system	280315	53	\$1,533,600
120	Mankato - S. View Heights II	Unsewered, connect to Mankato	280290	52	\$2,571,987
121	Villard Area Lakes SD	Unsewered, collection and treatment	279603	52	\$8,907,000
122	MCES Mpls Interceptor 1	Rehab Mpls interceptor 1	280159	51	\$7,547,256

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Priority Order

Rank	Project Name	Project Description	Project Number	Priority Points	Estimated Project Cost
123	MCES Mpls Interceptor 2	Rehab Mpls Interceptor 2	280213	51	\$22,988,970
124	MCES 1-MN-310/320	Interceptor improvements	279768	51	\$99,633,638
125	MCES Golden Valley Area Imp	Interceptor improvements	279770	51	\$9,827,081
126	Laketown Twp	Rehab existing collection system	279870	51	\$370,000
127	St. Cloud - Interceptor	Rehab interceptor sewer	279697	51	\$7,500,000
128	Center City	Relocate sewer utilities	280052	51	\$130,000
129	Blooming Prairie	Rehab collection system	280232	51	\$2,933,400
130	Clarkfield	Rehab collection and treatment	280336	51	\$5,840,000
131	Bovey	Rehab collection system	279580	51	\$450,000
132	Echo	Rehab collection system	280314	51	\$2,080,000
133	MCES Seneca Area System Rehab	System rehab, Phases 3, 4, 5	280267	50	\$18,001,115
134	Stewartville	Lift station, EQ basin, advanced treatment	279681	50	\$819,500
135	Wadena - Stormwater	Bioinfiltration, reduce impervious surfaces	279827	49	\$5,418,242
136	Mantorville	Connect to Kasson	280318	49	\$1,300,000
137	Ostrander	Rehab collection system	280276	49	\$2,833,382
138	Climax	Rehab collection and treatment	280039	49	\$2,464,043
139	Howard Lake	Rehab collection system, Phase 2	279880	49	\$7,625,500
140	Dresbach Twp	Unsewered, collection and treatment	279753	48	\$3,588,415
141	Oronoco - Area C	Unsewered, connect to WWTF	280327	48	\$1,050,000
142	Oronoco - Area F	Unsewered, connect to WWTF	280326	48	\$1,210,000
143	Afton - Stormwater	Downtown stormwater treatment areas	280220	48	\$1,028,000
144	Mahnomen	Rehab collection and treatment system	279684	48	\$420,000
145	Waterville	Rehab facility, advanced treatment	280261	48	\$13,422,223
146	Bagley	Rehab collection system	280146	48	\$1,861,000
147	Atwater	Rehab collection system	272614	48	\$2,045,800
148	Isle	Rehab collection system and lift stations	280328	48	\$2,535,700
149	Floodwood	Rehab collection system	279832	48	\$275,000
150	St. Martin	Rehab/expand existing system	279502	48	\$2,506,000
151	Leaf Valley Twp - Northwest	Unsewered, potential SSTS	279816	48	\$0
152	Moe Twp - Lobster Lake	Unsewered, potential SSTS	279738	47	\$0
153	Wright	Unsewered, collection and treatment	272582	47	\$1,600,000
154	Louisburg	Unsewered, potential SSTS	279650	47	\$0
155	Inver Grove Heights - Stormwater	Stormwater rain gardens, bioretention	280323	47	\$3,724,000
156	Carlos Twp	Unsewered, potential SSTS	279815	46	\$0
157	Silver Creek Twp - Stewart River	Unsewered, collection and treatment	272439	46	\$12,500,000
158	MCES MWWTP Rehab & Facilities Imp	Treatment improvements	279435	46	\$29,555,918
159	MCES MWWTP Solids Processing Improvements	Treatment improvements	272355	46	\$129,977,061
160	MCES Hopkins System Improvements	Interceptor improvements	272493	46	\$48,996,823
161	Minneapolis - War Department Tunnel	Plan/design collection rehab	279728	46	\$550,000
162	MCES Blue Lake Int. System Improvements	Interceptor improvements	279356	46	\$55,789,325
163	St. Cloud	Biosolids Improvements	280321	46	\$18,000,000
164	St. Cloud	Main lift station improvements	280322	46	\$8,000,000
165	Austin	Rehab/expand existing system	272409	46	\$3,500,000
166	Hopkins-LS #4	Rehab collection system and LS	279693	46	\$156,652
167	Minnetrissa	Rehab collection system, CIPP	280044	46	\$711,000
168	MCES St. Bonifacius LS/FM Rehab	Rehab lift station and forcemain	280269	46	\$18,547,521
169	Winnebago - Stormwater	Bioinfiltration swales and treatment area	280331	46	\$2,275,000
170	East Grand Forks	Interconnect to Grand Forks	279499	46	\$10,623,000
171	Murdock	Expand treatment, add pond	279679	46	\$400,000
172	St. James - Stormwater	Stormwater treatment areas, park irrigation	280340	46	\$2,500,000
173	Madison	Rehab treatment system	280179	46	\$4,535,465
174	Buhl	Rehab collection system	279550	46	\$1,715,500
175	Foxhome	Unsewered, collection and trmt system	279617	45	\$3,185,000
176	MCES Seneca Solids Processing Improvements	Biosolids improvements	280266	45	\$19,057,730
177	MCES Lift Stations L7, L13, L30, L35, L66	Lift stations improvements	279769	45	\$21,225,405
178	MCES Burnsville Interceptor Rehab	Interceptor improvements	280212	45	\$2,341,624
179	Grand Rapids	Phase II secondary treatment project	279861	45	\$6,800,000
180	Perham	Rehab collection system, southside	280245	45	\$1,169,522
181	Nisswa	Rehab/expand ponds, subsurface discharge	279535	45	\$2,872,795
182	MCES Empire WWTP Solids Improvements	Biosolids improvements	280268	44	\$14,006,584
183	St. Francis	Rehab/expand treatment system	280291	44	\$24,000,000

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Rank	Project Name	Project Description	Project Number	Priority Points	Estimated Project Cost
184	Moorhead	Rehab collection systems and LS	280184	44	\$770,000
185	Aitkin	Rehab collection system	279862	44	\$823,669
186	Nashwauk	Expand existing system	272537	43	\$2,759,150
187	Watertown	Rehab/expand existing system	279514	43	\$9,600,000
188	ALASD - AGA Drive	Interceptor improvements	279736	43	\$706,000
189	ALASD - CR82	Interceptor improvements	279735	43	\$1,367,000
190	ALASD - Digester	Additional aroebic digester cell	279733	43	\$2,205,000
191	ALASD - TH29	Interceptor improvements	279734	43	\$1,325,000
192	Hoffman	Rehab collection system	280264	43	\$874,000
193	Warroad	Rehab/expand existing system	272473	43	\$4,277,313
194	Deer River	Pond expansion and improvements	272596	43	\$2,107,800
195	Greenbush	Rehab collection system	279371	43	\$282,968
196	Warba	Rehab collection, ponds, advanced trmt	279622	43	\$2,278,000
197	Northome	Rehab collection and treatment system	279592	43	\$4,975,000
198	Grand Marais	Rehab collection system	272477	42	\$645,500
199	Gonvick	Unsewered, potential SSTS	279885	42	\$0
200	Monticello	Rehab facility, advanced treatment	280294	41	\$3,556,526
201	Mentor	Unsewered, collection and treatment	272592	40	\$1,847,053
202	Pequot Lakes	Rehab treatment system	280319	40	\$1,850,000
203	Frazee	Rehab collection system	280166	40	\$690,000
204	Northern Twp - Birchmont Beach	Unsewered, potential SSTS	279889	39	\$925,000
205	Northern Twp - Birchmont Court	Unsewered, potential SSTS	279888	39	\$950,000
206	Lake View Twp - W. Lake Melissa	Soil-based cluster system.	280061	39	\$750,000
207	Annandale	Rehab collection system	280273	39	\$626,795
208	Annandale	Rehab collection system	279850	39	\$1,048,200
209	Richmond	Rehab collection system	279612	39	\$573,000
210	Mazepa	Rehab/expand existing system	279509	39	\$500,000
211	Browerville - Phase 2	Rehab treatment facility	272617	39	\$6,205,600
212	Le Roy	Rehab collection system	279834	39	\$521,000
213	Heron Lake	Rehab collection and treatment system	280316	38	\$1,209,375
214	Cottonwood	Rehab lift station and collection system	279749	38	\$338,000
215	Twin Valley	Sewer rehab	280244	38	\$400,000
216	Stephen	Rehab/expand existing system	272496	38	\$1,250,000
217	Deerwood	Rehab collection system, lift station	279632	38	\$150,000
218	Clearbrook	Rehab collection system	279881	38	\$5,370,000
219	Hamburg	Regionalize - Norwood/Young America	279452	38	\$2,933,000
220	Deer Creek	Replace lift station	279830	38	\$170,000
221	Kelliher	Rehab collection system	279876	38	\$1,050,000
222	Hartland	Rehab existing system	279779	38	\$339,226
223	Northern Twp - Lavinia	Unsewered, potential SSTS	279886	36	\$1,650,000
224	White Bear Twp	Rehab collection system	279699	36	\$1,107,000
225	Big Lake	Expand WWTF, advanced treatment	280172	36	\$1,192,700
226	Lindstrom - Sewer Lining	Rehab collection system	279743	36	\$65,000
227	St. Louis County - Sand Lake	Unsewered, potential SSTS	280333	35	\$0
228	Sebeka	Rehab collection system	279644	35	\$900,000
229	Brownsville	Rehab treatment facility	279489	34	\$1,210,000
230	Grasston	Rehab ponds and collection system	279879	34	\$1,507,000
231	Federal Dam	Rehab collection system	272280	34	\$1,184,000
232	Lake View Twp - N. Lake Sallie	Unsewered, potential SSTS	279646	33	\$0
233	New London	Rehab collection system	280308	33	\$449,900
234	La Crescent	Rehab/expand existing system	272324	33	\$796,200
235	Winsted	LS improvements, advanced treatment	279864	33	\$5,050,000
236	Babbitt	Rehab treatment, advanced treatment	280306	33	\$7,400,000
237	Menahga	Rehab collection system	280168	33	\$1,180,000
238	Longville	Rehab collection system	279872	33	\$708,000
239	Amador Twp - Almelund SSD	Unsewered, potential SSTS	279508	32	\$2,745,717
240	Crane Lake - Bear Island	Unsewered, potential SSTS	272618	31	\$3,860,000
241	Lake View Twp - Shoreham Village	Unsewered, potential SSTS	279846	31	\$0
242	Elk River	Rehab treatment, advanced treatment	280221	31	\$18,886,302
243	Oslo	Rehab collection system and pond	272412	31	\$2,500,000
244	Staples	Rehab facility, advanced treatment	280226	31	\$2,665,000

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Priority Order

Rank	Project Name	Project Description	Project Number	Priority Points	Estimated Project Cost
245	Koochiching County - Island View Voyageurs	Unsewered, connect to NKSSD	279707	30	\$15,000,000
246	Leonard	Unsewered, potential SSTS	279586	30	\$0
247	French Twp - Wall Street	Unsewered, potential SSTS	279638	30	\$535,000
248	Buffalo	Rehab collection system	279858	30	\$4,600,000
249	Cokato	Expand WWTF	279616	30	\$4,400,000
250	La Crescent Twp	Unsewered, potential SSTS	279641	29	\$0
251	Lake View Twp - S. Lake Melissa	Unsewered, potential SSTS	279847	29	\$0
252	Rose Creek	Rehab collection system	279554	29	\$621,925
253	Lake County - Larsmont	Unsewered, connect to WLSSD	272438	28	\$975,000
254	South Bend Twp	Unsewered, connect to Mankato	279797	28	\$3,556,000
255	Nashwauk - Phase 2	Rehab collection system	279553	28	\$1,243,275
256	Cedar Mills	Remove tanks/wetlands, construct pond	280148	28	\$300,000
257	Prior Lake - Rolling Oaks	Unsewered, connect to Prior Lake	280288	27	\$142,042
258	Annandale - Stormwater	Underground infiltration areas	280283	25	\$458,800
259	Hitterdal	Rehab/expand ponds, extend sewer	272595	23	\$825,500
260	Clear Lake/Clearwater	Rehab treatment system	280282	21	\$1,446,000
261	Sacred Heart - Stormwater	Infiltration Basin	280292	21	\$1,540,675
262	Laporte	Rehab/expand collection and trmt	279573	20	\$250,000
263	Solway	Unsewered, potential SSTS	279585	18	\$0
264	Shevlin	Unsewered, potential SSTS	279584	18	\$0
265	Big Lake Area SD - Fond du Lac	Unsewered, connect to WLSSD	280208	16	\$14,000,000
266	Lindstrom - Mentzer / Melody	Unsewered, connect to CLJSD	279745	16	\$340,000
267	Meadowlands	Rehab existing system	279387	16	\$0
268	Hampton	Rehab/expand existing system	272532	16	\$0
269	Laporte - Unsewered	Unsewered, connect to WWTF	279578	15	\$100,000
270	Tower - Hoo-Doo Point	Unsewered, connect to WWTF	272639	15	\$627,300
271	Bigfork	Rehab and expand ponds	279438	14	\$1,551,000
272	Shakopee	Unsewered, connect to existing system	280320	11	\$0
273	Shafer	Expand WWTF, advanced treatment	279471	11	\$1,865,600
274	Emily	Unsewered, connect to WWTF	279882	8	\$1,980,000
275	Palisade	Rehab collection, expand treatment	279467	8	\$830,000
276	Cotton Twp	Unsewered, potential SSTS	279441	5	\$649,639
277	Racine	Rehab/expand existing system	272608	1	\$520,000
278	Crooked Lake Twp	Unsewered, potential SSTS	280196	1	\$0
279	Cass County - Sugar Point	Unsewered, potential LSTS	280178	1	\$2,000,000
280	Silver Creek Twp - Castle Danger 2	Unsewered, connect to WWTF	279408	1	\$3,600,000
281	Ottertail	Unsewered, potential SSTS	272311	1	\$3,760,000
282	Pelican Group of Lakes Improvement District	Unsewered, collection and treatment	272581	1	\$16,949,850
283	Randolph	Unsewered, collection and treatment	272584	1	\$3,715,600
284	Rutledge	Unsewered, collection and treatment	272569	1	\$1,292,000
285	St. Stephen	Unsewered, collection and treatment	272552	1	\$9,518,000
286	Tower - West T.H. 169	Unsewered, connect to WWTF	279409	1	\$787,000
287	Bruno	Unsewered, pressure sewer/sand filter	279440	1	\$2,682,000
288	Kingston	Unsewered, potential SSTS	279532	1	\$0
289	Lake Twp - Lakewood MPH	Unsewered, collection and treatment	279598	1	\$1,958,495
290	Lake Twp - Warroad Estates/Northern Lights MPH	Unsewered, collection and treatment	279604	1	\$3,775,579
291	Marine on St. Croix	Rehab collection system	279686	1	\$0
292	Nielsville	Rehab collection system and pond	279416	1	\$0
293	Westbrook	Rehab/expand existing system	272529	1	\$0
293	Total Projects				\$1,403,443,608

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Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Afton	45	Unsewered, collection and treatment	279825	66	\$8,112,700
Afton - Stormwater	143	Downtown stormwater treatment areas	280220	48	\$1,028,000
Aitkin	185	Rehab collection system	279862	44	\$823,669
ALASD - AGA Drive	188	Interceptor improvements	279736	43	\$706,000
ALASD - CR82	189	Interceptor improvements	279735	43	\$1,367,000
ALASD - Digester	190	Additional aroebic digester cell	279733	43	\$2,205,000
ALASD - TH29	191	Interceptor improvements	279734	43	\$1,325,000
Albert Lea - Stables Area	73	Unsewered, connect to Albert Lea	279701	59	\$1,778,000
Amador Twp - Almelund SSD	239	Unsewered, potential SSTS	279508	32	\$2,745,717
Annandale	207	Rehab collection system	280273	39	\$626,795
Annandale	208	Rehab collection system	279850	39	\$1,048,200
Annandale - Stormwater	258	Underground infiltration areas	280283	25	\$458,800
Atwater	147	Rehab collection system	272614	48	\$2,045,800
Austin	165	Rehab/expand existing system	272409	46	\$3,500,000
Austin Twp - Turtle Creek 2	110	Unsewered, potential SSTS	280190	53	\$1,857,500
Babbitt	236	Rehab treatment, advanced treatment	280306	33	\$7,400,000
Bagley	146	Rehab collection system	280146	48	\$1,861,000
Barnesville	117	Rehab collection system	280307	53	\$2,210,465
Bemidji Twp	58	Unsewered, potential SSTS	279887	61	\$350,000
Bethel	68	Replace pond liner, monitoring well	279835	60	\$190,000
Big Lake	225	Expand WWTF, advanced treatment	280172	36	\$1,192,700
Big Lake Area SD - Fond du Lac	265	Unsewered, connect to WLSSD	280208	16	\$14,000,000
Bigfork	271	Rehab and expand ponds	279438	14	\$1,551,000
Blackduck	71	Rehab collection and treatment system	279582	60	\$3,174,894
Blooming Prairie	129	Rehab collection system	280232	51	\$2,933,400
Borup	89	Rehab collection and treatment system	280246	58	\$2,510,990
Bovey	131	Rehab collection system	279580	51	\$450,000
Brooten	100	Rehab collection system	280309	56	\$1,411,000
Browerville - Phase 2	211	Rehab treatment facility	272617	39	\$6,205,600
Brownsville	229	Rehab treatment facility	279489	34	\$1,210,000
Brownton	106	Rehab collection system	280295	55	\$4,000,000
Bruno	287	Unsewered, pressure sewer/sand filter	279440	1	\$2,682,000
Buffalo	248	Rehab collection system	279858	30	\$4,600,000

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Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Buhl	174	Rehab collection system	279550	46	\$1,715,500
Canby	39	Rehab collection system	280222	68	\$4,300,000
Carlos Twp	156	Unsewered, potential SSTS	279815	46	\$0
Cascade Twp - Hallmark Terrace	51	Remove pond, connect to Rochester	280054	64	\$500,000
Cass County - Stony Point	104	Unsewered, potential SSTS	279845	55	\$1,200,000
Cass County - Sugar Point	279	Unsewered, potential LSTS	280178	1	\$2,000,000
Cedar Mills	256	Remove tanks/wetlands, construct pond	280148	28	\$300,000
Center City	128	Relocate sewer utilities	280052	51	\$130,000
Central Iron Range SD	7	Rehab treatment, advanced treatment	279367	86	\$4,710,286
Chisholm	62	Rehab collection system	279567	61	\$907,030
Chisholm - Lakeview	47	Rehab collection system	280310	66	\$4,212,696
Clarissa	86	Rehab collection system	280277	58	\$3,000,000
Clarkfield	130	Rehab collection and treatment	280336	51	\$5,840,000
Clear Lake/Clearwater	260	Rehab treatment system	280282	21	\$1,446,000
Clearbrook	218	Rehab collection system	279881	38	\$5,370,000
Climax	138	Rehab collection and treatment	280039	49	\$2,464,043
Clitherall	90	Unsewered, collection/trmt with ponds	279536	57	\$1,818,000
Cokato	249	Expand WWTF	279616	30	\$4,400,000
Comfrey	49	Rehab collection system	279866	66	\$3,438,000
Cotton Twp	276	Unsewered, potential SSTS	279441	5	\$649,639
Cottonwood	214	Rehab lift station and collection system	279749	38	\$338,000
Crane Lake - Bear Island	240	Unsewered, potential SSTS	272618	31	\$3,860,000
Cromwell	80	Rehab existing system	279442	58	\$350,000
Crooked Lake Twp	278	Unsewered, potential SSTS	280196	1	\$0
Crosby	42	Rehab collection and lift stations	280271	68	\$1,592,676
Currie	40	Rehab collection system	280311	68	\$1,852,460
Cuyuna	57	Rehab collection system	280053	63	\$1,340,000
Dalton	70	Rehab collection and treatment	279750	60	\$2,450,000
Darwin	118	Rehab collection and treatment	279562	53	\$2,841,375
Dawson	43	Rehab collection system	279752	68	\$5,200,000
Deer Creek	220	Replace lift station	279830	38	\$170,000
Deer River	194	Pond expansion and improvements	272596	43	\$2,107,800
Deerwood	217	Rehab collection system, lift station	279632	38	\$150,000

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
DeGraff	13	Unsewered, regionalize with Murdock	280174	81	\$4,905,000
Detroit Lakes	11	Rehab treatment, advanced treatment	280313	83	\$30,500,000
Detroit Lakes	116	Replace lift station	279739	53	\$155,000
Dresbach Twp	140	Unsewered, collection and treatment	279753	48	\$3,588,415
Dumont	78	Treatment facility corrective action	280240	58	\$3,200,000
Eagle Bend	93	Rehab collection system	280278	57	\$1,490,202
East Grand Forks	170	Interconnect to Grand Forks	279499	46	\$10,623,000
Easton	66	Rehab collection system	279652	61	\$529,888
Echo	132	Rehab collection system	280314	51	\$2,080,000
Elbow Lake - Division Street	84	Rehab collection system	279446	58	\$408,440
Elk River	242	Rehab treatment, advanced treatment	280221	31	\$18,886,302
Ellendale	27	Rehab and expand sewer system	279447	73	\$960,000
Ely	79	Rehab collection system	279370	58	\$2,106,750
Emily	274	Unsewered, connect to WWTF	279882	8	\$1,980,000
Erskine	72	Rehab collection and treatment systems	279755	60	\$410,000
Eveleth	63	Rehab collection system, Garfield St	280275	61	\$189,707
Federal Dam	231	Rehab collection system	272280	34	\$1,184,000
Floodwood	149	Rehab collection system	279832	48	\$275,000
Fountain	69	Treatment facility corrective action	279411	60	\$183,500
Foxhome	175	Unsewered, collection and trmt system	279617	45	\$3,185,000
Frazee	203	Rehab collection system	280166	40	\$690,000
French Twp - Wall Street	247	Unsewered, potential SSTS	279638	30	\$535,000
Gilbert	8	Rehab treatment, advanced treatment	280255	86	\$7,768,000
Gonvick	199	Unsewered, potential SSTS	279885	42	\$0
Grand Lake Twp - Caribou Lake	111	Unsewered, potential SSTS	279366	53	\$1,986,540
Grand Marais	198	Rehab collection system	272477	42	\$645,500
Grand Rapids	179	Phase II secondary treatment project	279861	45	\$6,800,000
Granite Falls 1	25	Biosolids storage and I/I removal	280214	74	\$3,000,000
Granite Falls 2	34	Rehab/expand WWTF	280215	69	\$5,390,000
Grasston	230	Rehab ponds and collection system	279879	34	\$1,507,000
Greenbush	195	Rehab collection system	279371	43	\$282,968
Grove City	65	Rehab collection and treatment system	279549	61	\$11,482,000
Hallock	119	Rehab collection system	280315	53	\$1,533,600

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Ham Lake	94	Unsewered, potential SSTS	279654	56	\$2,000,000
Hamburg	219	Regionalize - Norwood/Young America	279452	38	\$2,933,000
Hampton	268	Rehab/expand existing system	272532	16	\$0
Hartland	222	Rehab existing system	279779	38	\$339,226
Hawley	77	Rehab collection system	279763	59	\$716,000
Heron Lake	213	Rehab collection and treatment system	280316	38	\$1,209,375
Hibbing	81	Rehab pump station, advanced treatment	279668	58	\$1,506,000
Hitterdal	259	Rehab/expand ponds, extend sewer	272595	23	\$825,500
Hoffman	192	Rehab collection system	280264	43	\$874,000
Hopkins-LS #1 Abandonment	59	Abandon LS, install new collection	279694	61	\$286,185
Hopkins-LS #4	166	Rehab collection system and LS	279693	46	\$156,652
Howard Lake	139	Rehab collection system, Phase 2	279880	49	\$7,625,500
Hutchinson	54	Rehab treatment, advanced treatment	279688	63	\$613,800
Inver Grove Heights - Stormwater	155	Stormwater rain gardens, bioretention	280323	47	\$3,724,000
Isle	148	Rehab collection system and lift stations	280328	48	\$2,535,700
Jackson - unsewered	30	Unsewered, connect to WWTF	279859	71	\$2,236,346
Kabetogama Twp - Puck's Point	109	Unsewered, LSTS spray/subsurface	279610	53	\$4,270,670
Kasson	99	Expand WWTF, regionalize with Mantorville	280317	56	\$6,016,500
Keewatin	85	Rehab treatment system	280253	58	\$4,997,000
Kelliher	221	Rehab collection system	279876	38	\$1,050,000
Kingston	288	Unsewered, potential SSTS	279532	1	\$0
Koochiching County - Island View Voyageurs	245	Unsewered, connect to NKSSD	279707	30	\$15,000,000
La Crescent	234	Rehab/expand existing system	272324	33	\$796,200
La Crescent Twp	250	Unsewered, potential SSTS	279641	29	\$0
Lake County - Larsmont	253	Unsewered, connect to WLSSD	272438	28	\$975,000
Lake of the Woods Co. - Wheelers Point	67	Unsewered, collection and treatment	279475	61	\$8,609,000
Lake Park	64	Rehab collection system	279765	61	\$1,783,000
Lake Twp - Lakewood MPH	289	Unsewered, collection and treatment	279598	1	\$1,958,495
Lake Twp - Warroad Estates/Northern Lights MPH	290	Unsewered, collection and treatment	279604	1	\$3,775,579
Lake View Twp - N. Lake Sallie	232	Unsewered, potential SSTS	279646	33	\$0
Lake View Twp - S. Lake Melissa	251	Unsewered, potential SSTS	279847	29	\$0
Lake View Twp - Shoreham Village	241	Unsewered, potential SSTS	279846	31	\$0
Lake View Twp - W. Lake Melissa	206	Soil-based cluster system.	280061	39	\$750,000

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Lakefield	6	Rehab/expand system, advanced trmt	280274	88	\$4,369,000
Laketown Twp	126	Rehab existing collection system	279870	51	\$370,000
Lamberton	53	Rehab collection system	279865	63	\$3,052,100
Laporte	262	Rehab/expand collection and trmt	279573	20	\$250,000
Laporte - Unsewered	269	Unsewered, connect to WWTF	279578	15	\$100,000
Le Center	103	Rehab collection system	279784	56	\$7,541,000
Le Roy	212	Rehab collection system	279834	39	\$521,000
Leaf Valley Twp - Northwest	151	Unsewered, potential SSTS	279816	48	\$0
Leonard	246	Unsewered, potential SSTS	279586	30	\$0
Lincoln Pipestone - WTP	36	WTP improvements, advanced treatment	280299	68	\$2,700,000
Lindstrom - Mentzer / Melody	266	Unsewered, connect to CLJSD	279745	16	\$340,000
Lindstrom - Sewer Lining	226	Rehab collection system	279743	36	\$65,000
Longville	238	Rehab collection system	279872	33	\$708,000
Loretto	28	Regionalization with MCES	279890	73	\$1,262,500
Louisburg	154	Unsewered, potential SSTS	279650	47	\$0
Lucan	55	Rehab/expand existing ponds	272586	63	\$2,450,000
Madison	173	Rehab treatment system	280179	46	\$4,535,465
Mahnomen	144	Rehab collection and treatment system	279684	48	\$420,000
Mankato - S. View Heights II	120	Unsewered, connect to Mankato	280290	52	\$2,571,987
Mantorville	136	Connect to Kasson	280318	49	\$1,300,000
Marine on St. Croix	291	Rehab collection system	279686	1	\$0
Maynard	37	Rehab collection system	280038	68	\$2,875,000
Mazeppa	210	Rehab/expand existing system	279509	39	\$500,000
MCES 1-MN-310/320	124	Interceptor improvements	279768	51	\$99,633,638
MCES Blue Lake Int. System Improvements	162	Interceptor improvements	279356	46	\$55,789,325
MCES Burnsville Interceptor Rehab	178	Interceptor improvements	280212	45	\$2,341,624
MCES Empire WWTP Solids Improvements	182	Biosolids improvements	280268	44	\$14,006,584
MCES Golden Valley Area Imp	125	Interceptor improvements	279770	51	\$9,827,081
MCES Hopkins System Improvements	160	Interceptor improvements	272493	46	\$48,996,823
MCES Lift Stations L7, L13, L30, L35, L66	177	Lift stations improvements	279769	45	\$21,225,405
MCES Mpls Interceptor 1	122	Rehab Mpls interceptor 1	280159	51	\$7,547,256
MCES Mpls Interceptor 2	123	Rehab Mpls Interceptor 2	280213	51	\$22,988,970
MCES MWWTP Rehab & Facilities Imp	158	Treatment improvements	279435	46	\$29,555,918

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
MCES MWWTP Solids Processing Improvements	159	Treatment improvements	272355	46	\$129,977,061
MCES Seneca Area System Rehab	133	System rehab, Phases 3, 4, 5	280267	50	\$18,001,115
MCES Seneca Solids Processing Improvements	176	Biosolids improvements	280266	45	\$19,057,730
MCES St. Bonifacius LS/FM Rehab	168	Rehab lift station and forcemain	280269	46	\$18,547,521
Meadowlands	267	Rehab existing system	279387	16	\$0
Menahga	237	Rehab collection system	280168	33	\$1,180,000
Mentor	201	Unsewered, collection and treatment	272592	40	\$1,847,053
Miltona	88	Rehab/expand collection and treatment	279852	58	\$2,536,000
Miltona Twp - South East	74	Unsewered, potential SSTS	279817	59	\$0
Minneapolis - Flow Meter	31	Plan/design meter improvements	279821	71	\$900,000
Minneapolis - Inflow Disconnect	32	Inflow disconnect from storm sewer	279726	71	\$6,600,000
Minneapolis - MN320	33	Plan/design collection rehab	279729	71	\$750,000
Minneapolis - War Department Tunnel	161	Plan/design collection rehab	279728	46	\$550,000
Minnehaha Creek WD - Stormwater	101	Blake Road diversion and treatment area	280262	56	\$2,546,386
Minneota	4	Rehab collection system	280270	88	\$5,000,000
Minnetrista	167	Rehab collection system, CIPP	280044	46	\$711,000
Moe Twp - Lobster Lake	152	Unsewered, potential SSTS	279738	47	\$0
Monticello	200	Rehab facility, advanced treatment	280294	41	\$3,556,526
Moorhead	184	Rehab collection systems and LS	280184	44	\$770,000
Moose Lake	48	Rehab facility, advanced treatment	280289	66	\$3,009,316
Morgan	17	Rehab collection and treatment system	279771	81	\$13,600,000
Morris - WTP	112	WTP improvements, advanced treatment	280284	53	\$1,675,000
Mountain Lake	12	New WWTF	279868	83	\$13,445,000
Murdock	171	Expand treatment, add pond	279679	46	\$400,000
Nashwauk	186	Expand existing system	272537	43	\$2,759,150
Nashwauk - Phase 2	255	Rehab collection system	279553	28	\$1,243,275
New London	233	Rehab collection system	280308	33	\$449,900
New York Mills	107	Rehab collection system	280281	55	\$1,305,832
Newport	60	Rehab collection system	279656	61	\$950,000
Nielsville	292	Rehab collection system and pond	279416	1	\$0
Nisswa	181	Rehab/expand ponds, subsurface discharge	279535	45	\$2,872,795
Northern Twp - Birchmont Beach	204	Unsewered, potential SSTS	279889	39	\$925,000
Northern Twp - Birchmont Court	205	Unsewered, potential SSTS	279888	39	\$950,000

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Northern Twp - Lavinia	223	Unsewered, potential SSTS	279886	36	\$1,650,000
Northome	197	Rehab collection and treatment system	279592	43	\$4,975,000
Ogilvie	9	Rehab collection, connect to Mora	279676	85	\$5,861,000
Oronoco - Area B	52	Unsewered, connect to WWTF	279777	63	\$10,490,000
Oronoco - Area C	141	Unsewered, connect to WWTF	280327	48	\$1,050,000
Oronoco - Area F	142	Unsewered, connect to WWTF	280326	48	\$1,210,000
Oronoco Twp - Cedar Beach	29	Unsewered, potential SSTS	280230	72	\$1,519,950
Ortonville	50	Rehab collection system	279787	65	\$895,000
Ortonville - McCloud Street	105	Rehab collection system	279636	55	\$367,500
Osakis	114	Rehab collection system	280338	53	\$2,822,900
Oslo	243	Rehab collection system and pond	272412	31	\$2,500,000
Ostrander	137	Rehab collection system	280276	49	\$2,833,382
Ottertail	281	Unsewered, potential SSTS	272311	1	\$3,760,000
Palisade	275	Rehab collection, expand treatment	279467	8	\$830,000
Pelican Group of Lakes Improvement District	282	Unsewered, collection and treatment	272581	1	\$16,949,850
Pelican Rapids	56	Rehab collection system, Ph 2	279468	63	\$3,955,000
Pequot Lakes	202	Rehab treatment system	280319	40	\$1,850,000
Perham	180	Rehab collection system, southside	280245	45	\$1,169,522
Pipestone	22	Rehab collection system	280334	78	\$893,050
Pipestone - WTP	38	WTP improvements, advanced treatment	280339	68	\$9,660,000
Pope County - Clearwater Bay	75	Unsewered, potential SSTS	280060	59	\$732,434
Prior Lake - Rolling Oaks	257	Unsewered, connect to Prior Lake	280288	27	\$142,042
Proctor	15	Rehab collection system.	280185	81	\$1,250,000
Racine	277	Rehab/expand existing system	272608	1	\$520,000
Randolph	283	Unsewered, collection and treatment	272584	1	\$3,715,600
Red Rock Twp - Nicolville	1	Unsewered, ph 2 corrective action	279497	100	\$197,788
Rice Lake Twp	14	Rehab collection, remove lift station	280161	81	\$410,000
Richmond	209	Rehab collection system	279612	39	\$573,000
Rose Creek	252	Rehab collection system	279554	29	\$621,925
Rush City	82	Rehab collection system	279849	58	\$863,688
Rutledge	284	Unsewered, collection and treatment	272569	1	\$1,292,000
Sacred Heart	18	Rehab collection and treatment	279877	81	\$5,661,000
Sacred Heart - Stormwater	261	Infiltration Basin	280292	21	\$1,540,675

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Sandstone	113	Expand existing system	279518	53	\$16,936,000
Scanlon	10	Rehab collection system	280162	83	\$276,988
Seaforth	19	Corrective action	279393	80	\$820,000
Sebeka	228	Rehab collection system	279644	35	\$900,000
Shafer	273	Expand WWTF, advanced treatment	279471	11	\$1,865,600
Shakopee	272	Unsewered, connect to existing system	280320	11	\$0
Shevlin	264	Unsewered, potential SSTS	279584	18	\$0
Silver Creek Twp - Castle Danger 2	280	Unsewered, connect to WWTF	279408	1	\$3,600,000
Silver Creek Twp - Stewart River	157	Unsewered, collection and treatment	272439	46	\$12,500,000
Solway	263	Unsewered, potential SSTS	279585	18	\$0
South Bend Twp	254	Unsewered, connect to Mankato	279797	28	\$3,556,000
St. Cloud	163	Biosolids Improvements	280321	46	\$18,000,000
St. Cloud	164	Main lift station improvements	280322	46	\$8,000,000
St. Cloud - Interceptor	127	Rehab interceptor sewer	279697	51	\$7,500,000
St. Francis	183	Rehab/expand treatment system	280291	44	\$24,000,000
St. James	46	Rehab collection system	280304	66	\$2,800,000
St. James - Stormwater	172	Stormwater treatment areas, park irrigation	280340	46	\$2,500,000
St. Louis County - Sand Lake	227	Unsewered, potential SSTS	280333	35	\$0
St. Martin	150	Rehab/expand existing system	279502	48	\$2,506,000
St. Stephen	285	Unsewered, collection and treatment	272552	1	\$9,518,000
Staples	244	Rehab facility, advanced treatment	280226	31	\$2,665,000
Steele County - Pratt	23	Unsewered, potential SSTS	280263	76	\$0
Stephen	216	Rehab/expand existing system	272496	38	\$1,250,000
Stewart	91	Rehab collection system	279867	57	\$1,400,000
Stewartville	134	Lift station, EQ basin, advanced treatment	279681	50	\$819,500
Summit Lake Twp - Reading	35	Unsewered, potential SSTS	280149	68	\$0
Taconite	97	Rehab collection system	280303	56	\$2,350,000
Tower - Brietung Wastewater Board	92	Rehab collection and treatment system	272308	57	\$2,327,300
Tower - Hoo-Doo Point	270	Unsewered, connect to WWTF	272639	15	\$627,300
Tower - West T.H. 169	286	Unsewered, connect to WWTF	279409	1	\$787,000
Tracy	5	Rehab/expand existing system	279575	88	\$12,000,000
Trimont	2	Rehab collection and treatment system	279800	93	\$7,599,000
Trosky	26	Unsewered, potential SSTS	279723	73	\$2,485,543

Appendix 3: State Fiscal Year 2016 Project Priority List (PPL)

Alphabetical Order

Project Name	Rank	Project Description	Project Number	Priority Points	Estimated Project Cost
Twin Valley	215	Sewer rehab	280244	38	\$400,000
Vernon Center	76	Rehab collection and treatment	279640	59	\$399,492
Villard Area Lakes SD	121	Unsewered, collection and treatment	279603	52	\$8,907,000
Wadena	102	Rehab collection system	279826	56	\$4,102,252
Wadena - Stormwater	135	Bioinfiltration, reduce impervious surfaces	279827	49	\$5,418,242
Waldorf	61	Rehab collection system	279619	61	\$1,312,000
Walker	108	Rehab collection system	279875	55	\$4,007,400
Walnut Grove	24	Rehab collection and treatment system	279802	76	\$6,659,925
Warba	196	Rehab collection, ponds, advanced trmt	279622	43	\$2,278,000
Warroad	193	Rehab/expand existing system	272473	43	\$4,277,313
Warren	83	Rehab collection system	280329	58	\$2,647,307
Waseca	41	Rehab collection system	280300	68	\$3,751,026
Watertown	187	Rehab/expand existing system	279514	43	\$9,600,000
Waterville	145	Rehab facility, advanced treatment	280261	48	\$13,422,223
Waubun	87	Rehab collection system	280231	58	\$3,927,000
Waverly	115	Rehab collection system, N. Shore Drive	280272	53	\$2,555,416
Westbrook	293	Rehab/expand existing system	272529	1	\$0
White Bear Twp	224	Rehab collection system	279699	36	\$1,107,000
White Twp - Gardendale Utility Improv. Proj	21	Rehab collection system	279808	78	\$316,800
Willmar	44	Rehab lift stations	280312	66	\$950,000
Winnebago	20	Rehab collection system in NW	280332	79	\$1,860,000
Winnebago - Stormwater	169	Bioinfiltration swales and treatment area	280331	46	\$2,275,000
Winsted	235	LS improvements, advanced treatment	279864	33	\$5,050,000
WLSSD - Interceptor Improvements	3	Rehab interceptors	279633	91	\$15,968,960
WLSSD - Pump Station Improvements	98	Rehab pump stations	279663	56	\$28,613,000
WLSSD - Treatment Plant Imp 1	95	Rehab treatment system	279659	56	\$13,600,000
WLSSD - Treatment Plant Imp 2	96	Rehab treatment, energy improvements	280285	56	\$47,799,104
Wrenshall	16	Rehab Pioneer Drive	279812	81	\$90,000
Wright	153	Unsewered, collection and treatment	272582	47	\$1,600,000
Total Projects	293				\$1,403,443,608

Appendix 4:

**Twin Cities Area Communities Served by Metropolitan Council
Environmental Services (MCES)**

Community	Population (2010 U.S. Census)
Andover	30,371
Anoka	17,357
Apple Valley	49,020
Arden Hills	9,529
Bayport	3,465
Birchwood	870
Blaine	56,261
Bloomington	82,962
Brooklyn Center	29,949
Brooklyn Park	74,743
Burnsville	60,699
Carver	3,519
Centerville	3,762
Champlin	22,937
Chanhassen	23,000
Chaska	23,429
Circle Pines	4,921
Columbia Heights	19,532
Columbus Township	3,957
Coon Rapids	61,876
Cottage Grove	34,394
Crystal	22,154
Dayton	

Appendix 4:

**Twin Cities Area Communities Served by Metropolitan Council
Environmental Services (MCES)**

Community	Population (2010 U.S. Census)
	4,622
Deephaven	3,658
Eagan	64,535
East Bethel	11,607
Eden Prairie	60,024
Edina	47,790
Elko New Market	3,845
Empire Township	2,444
Excelsior	2,254
Falcon Heights	5,307
Farmington	20,305
Forest Lake	18,077
Fridley	27,394
Gem Lake	295
Golden Valley	20,314
Greenfield	2,710
Greenwood	638
Hastings	21,899
Hilltop	660
Hopkins	17,531
Hugo	12,685
Independence	3,472
Inver Grove Heights	33,638

Appendix 4:

**Twin Cities Area Communities Served by Metropolitan Council
Environmental Services (MCES)**

Community	Population (2010 U.S. Census)
Lake Elmo	7,997
Laketown Township	2,304
Lakeville	54,951
Landfall	810
Lauderdale	2,494
Lexington	2,147
Lilydale	818
Lino Lakes	19,996
Little Canada	9,722
Long Lake	1,951
Mahtomedi	7,718
Maple Grove	60,241
Maple Plain	1,732
Maplewood	37,572
Medicine Lake	497
Medina	4,794
Mendota	160
Mendota Heights	11,191
Minneapolis	381,833
Minnetonka	49,766
Minnetonka Beach	713
Minnetrissa	6,157
Mound	9,069

Appendix 4:

**Twin Cities Area Communities Served by Metropolitan Council
Environmental Services (MCES)**

Community	Population (2010 U.S. Census)
Mounds View	12,162
New Brighton	21,444
New Hope	20,358
Newport	3,487
North Oaks	4,389
North St Paul	11,450
Oak Park Heights	4,317
Oakdale	27,473
Orono	7,428
Osseo	2,495
Plymouth	69,963
Prior Lake	22,570
Ramsey	23,267
Richfield	35,053
Robbinsdale	13,947
Rosemount	21,240
Roseville	33,497
Savage	26,897
Shakopee	36,110
Shoreview	25,023
Shorewood	7,307
South St Paul	20,283
Spring Lake Park	6,318

Appendix 4:

**Twin Cities Area Communities Served by Metropolitan Council
Environmental Services (MCES)**

Community	Population (2010 U.S. Census)
Spring Park	1,538
St Anthony	8,226
St Bonifacius	2,176
St Louis Park	45,043
St Paul	283,991
St Paul Park	5,283
Stillwater	18,058
Tonka Bay	1,378
Vadnais Heights	12,313
Victoria	7,143
Waconia	10,429
Wayzata	3,717
West St Paul	19,661
White Bear Lake	23,797
White Bear Twshp	10,910
Willernie	630
Woodbury	60,737
Woodland	420

Appendix 5:

Survey Responses and Methodological Considerations

The projected wastewater infrastructure needs and capital costs contained in this report are intended to inform the ongoing discussion about the condition and future of Minnesota's public infrastructure. This information also may help frame discussion about the comparative roles and responsibilities of state and local governments in maintaining, investing in, and financing wastewater infrastructure.

Given the significance of these policy considerations, legislators and others making use of this report should be aware of certain factors that may affect the accuracy of survey information. Specifically, to what extent is it probable that future wastewater infrastructure needs and capital costs are *over-reported* or *under-reported* by the WINS survey? As discussed below, a combination of the *variability of future cost estimates* and the *limited capability, resources and expertise of smaller communities* make it probable that this report *under-reports* future wastewater infrastructure needs and capital costs.

Variability of Future Cost Estimates

There is an inherent variability between estimates of future costs and the actual costs of infrastructure improvements. The timeframe from when a project need is first identified to construction completion consists of several phases:

1. **Recognition of Need.** The process may begin formally with infrastructure strategic planning, a capital improvement plan (CIP), infiltration/inflow analysis or a sewer system evaluation survey. Or it may begin with little more than a general recognition of a need (e.g., the collection system on the northwest side of town was constructed some time in the 1930s and will need to be rehabilitated or replaced within the next five to ten years – if not sooner.)
2. **Facilities Planning.** The next step is to develop a facilities plan (also known as a preliminary engineering report), initiate the process of environmental review and begin to secure funding for the project.
3. **Plans and Specifications.** The approval of a facilities plan (the MPCA and Rural Development of the U.S. Department of Agriculture review and approve facilities plans in Minnesota) the completion of environmental review and securing of funding commitments is followed by the development of construction plans and specifications.
4. **Bidding and Construction.** In every major construction project, there are risks of unforeseen conditions that alter the total cost of the project.

Cost estimates for future projects reported to the WINS survey and the PPL are at all different phases in this life-cycle of an infrastructure project. This increases the variability of future cost estimates. Also, based on anecdotal information, costs generally increase from initial estimates to construction (even adjusted for present value). Without additional research, it is unclear whether this is a routine occurrence that contributes to the under-reporting of future infrastructure costs.

Community Capabilities, Resources and Expertise

The accuracy of future cost estimates for wastewater infrastructure projects are significantly affected by the availability of resources and expertise to:

1. Effectively monitor, survey and track the condition of existing infrastructure and ascertain the need for rehabilitation and replacement;
2. Engage in strategic planning to address growth and expanding capacity needs; and
3. Estimate project costs, including assessment of architectural and engineering specifications, construction cost planning and project administration.

While there are exceptions, the *capability* of a community or sanitary district to accurately estimate the future costs of wastewater treatment depends on resources and expertise. This is, in turn,

Appendix 5: Survey Responses and Methodological Considerations

dependent upon the size of the community or sanitary district — the number of connections — and the opportunity for economies of scale.

Consider, for example, the difference in capability characteristic of a city of 300 residents as compared to the state's largest wastewater entities, Metropolitan Council Environmental Services (MCES) and the Western Lake Superior Sanitary District (WLSSD). MCES and WLSSD have extensive capabilities to track the condition of existing infrastructure and ascertain the need for rehabilitation and replacement over time frames extending to 20 years and longer and to develop extensive strategic and capital improvement plans based on professional evaluations and itemizations of project costs. In contrast – and although there are notable exceptions – a city of 300 tends to be fortunate if it can locate an accurate and comprehensive map of its collection sewer system or afford a professional evaluation of the condition and remaining useful life of its treatment facilities.

In general, as the population of a community or sanitary district service area exceeds 1,000 residents, capital improvement planning for wastewater infrastructure becomes more feasible. For smaller communities not faced with an immediate and critical need, exercising the administrative and institutional capabilities and acquiring the resources and expertise necessary for infrastructure surveying and planning tends to be problematic. The probable result of this situation is that the future needs (i.e., 5-10 years and 10-20 years) of communities with populations of less than 1,000 tend to be significantly *under-reported* in the WINS survey.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Ada				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 14.0	30% 10.5	30% 10.5	43	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Adams				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 3.6	30% 1.8	10% 0.6	23	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Adrian				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 6.6	15% 1.7	25% 2.8	32	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Aitkin				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
36% 5.4	16% 2.4	48% 7.2	55	49
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Akeley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.0	100	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Albany				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 5.9	20% 2.6	35% 4.6	44	31
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Albert Lea				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
88% 95.0	0% 0.0	12% 13.0	12	33
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Albertville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 1.7	10% 3.4	85% 28.9	89	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Alden				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	86% 6.0	14% 1.0	52	31
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Alexandria Lakes Area Sanitary District				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
17% 38.3	38% 85.5	45% 101.3	62	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Alpha				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Altura				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 3.2	0% 0.0	20% 0.8	20	37
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Amboy				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	14% 0.4	86% 2.6	92	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Andover				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	50% 47.5	50% 47.5	72	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Annandale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
68% 22.1	5% 1.6	27% 8.8	29	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Anoka				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
35% 23.2	30% 19.9	35% 23.2	48	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Apple Valley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	25% 49.5	75% 148.5	86	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Appleton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 3.0	30% 1.8	20% 1.2	33	17
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Community Name			Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
Arden Hills				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 2.3	70% 32.0	25% 11.4	56	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Argyle				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	10% 1.2	90% 10.8	94	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ashby				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	1% 0.1	99% 5.0	99	47
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Atwater				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
15% 1.4	45% 4.1	40% 3.6	60	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Audubon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 3.0	50% 3.0	72	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Aurora				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 3.8	40% 7.6	40% 7.6	58	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Austin				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
55% 68.5	30% 37.4	15% 18.7	28	71
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Avon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	47% 4.7	53% 5.3	74	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Babbitt				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
90% 9.9	3% 0.3	7% 0.8	8	39
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Bagley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
65% 6.5	20% 2.0	15% 1.5	24	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Balaton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 5.1	20% 1.3	56	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Barnum				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 10.0	100	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Barrett				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
65% 2.6	0% 0.0	35% 1.4	35	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Battle Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	20% 1.4	80% 5.6	89	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Baxter				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
0% 0.0	0% 0.0	100% 73.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bayport				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
55% 6.9	10% 1.3	35% 4.4	39	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Beardsley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Beaver Bay				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 2.5	50% 2.5	72	33
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

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*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Beaver Creek				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 0.0	50% 0.0	72	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Becker				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 17.0	50% 17.0	72	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Belgrade				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 14.0	100	31
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Belle Plaine				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
8% 2.9	25% 9.1	67% 24.4	78	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bemidji				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 22.3	25% 22.3	50% 44.5	61	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Benson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
45% 12.6	25% 7.0	30% 8.4	41	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bertha				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.0	100	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Big Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 2.0	50% 2.0	72	51
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Big Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	41% 27.8	59% 40.0	77	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Bigelow				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.8	100	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bigfork				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.2	55% 2.2	40% 1.6	64	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bingham Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u>
	0.0	100% 7.8	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Birchwood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u>
0% 0.0	10% 0.5	90% 4.3	94	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bird Island				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	2% 0.2	98% 9.3	99	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Biwabik				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 7.5	0% 0.0	70% 17.5	70	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Blackduck				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 2.3	50% 4.5	25% 2.3	47	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Blaine				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u>
0% 0.0	16% 36.8	84% 193.2	91	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Blooming Prairie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
34% 6.5	34% 6.5	32% 6.1	47	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Bloomington				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
56% 199.2	37% 131.6	7% 24.9	23	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Blue Earth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 15.3	20% 5.1	20% 5.1	29	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bock				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Borup				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bovey				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
16% 0.6	20% 0.8	64% 2.6	73	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Bowlus				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 1.8	10% 0.2	50	44
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Braham				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
85% 8.5	10% 1.0	5% 0.5	9	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brainerd				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
48% 36.5	22% 16.7	30% 22.8	40	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brandon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	33% 1.5	67% 2.9	82	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS) Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Breckenridge				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 6.8	40% 6.8	20% 3.4	38	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Breezy Point				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 6.0	50% 6.0	72	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brewster				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 3.6	10% 0.4	50	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brooklyn Center				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
35% 37.1	13% 13.8	52% 55.1	58	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brooklyn Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
6% 15.0	47% 117.5	47% 117.5	68	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Broton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 3.6	10% 0.4	50	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Browerville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
27% 2.1	19% 1.5	54% 4.3	62	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Browns Valley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 1.0	15% 0.8	65% 3.3	72	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brownsdale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 3.2	55% 4.4	5% 0.4	29	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Brownsville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.5	100	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Brownton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 5.3	5% 0.3	47	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Buckman				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 0.1	100	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Buffalo				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
6% 8.0	17% 22.7	77% 102.8	85	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Buffalo Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 9.6	20% 2.4	56	32
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Burnsville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
4% 9.8	56% 136.6	40% 97.6	65	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Byron				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 3.0	25% 7.5	65% 19.5	76	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Caledonia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
70% 9.5	10% 1.4	20% 2.7	24	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Callaway				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 0.8	25% 0.5	35% 0.7	46	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Calumet				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
10% 0.5	30% 1.4	60% 2.9	73	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cambridge				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
4% 1.8	35% 16.1	61% 28.1	77	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Campbell				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Canby				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 2.8	15% 1.7	60% 6.6	67	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cannon Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 4.0	25% 4.0	50% 8.0	61	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Carlos				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 2.8	50% 2.8	72	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Carlton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
25% 1.5	25% 1.5	50% 2.9	61	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Carver				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
0% 0.0	0% 0.0	100% 26.0	100	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		0
Cass Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 2.5	25% 2.5	50% 5.0	61	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Cedar Mills				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Center City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	80% 2.4	20% 0.6	56	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Centerville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	20% 3.8	80% 15.2	89	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Central Iron Range Sanitary Sewer District				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ceylon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Champlin				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	25% 22.3	75% 66.8	86	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Chandler				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 1.8	20% 0.7	30% 1.1	39	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Chanhassen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
2% 2.7	27% 36.4	71% 95.8	83	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Chaska				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
15% 15.3	30% 30.6	55% 56.1	68	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Chatfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
60% 10.9	16% 2.9	24% 4.4	31	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Chisago Lakes Joint Sewage Treatment Commi				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
0% 0.0	1% 0.2	99% 19.8	99	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Chisholm				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
53% 11.1	15% 3.2	32% 6.7	39	60
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Chokio				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.0	100	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Circle Pines				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	70% 11.2	30% 4.8	61	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clara City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
45% 12.2	30% 8.1	25% 6.8	38	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Claremont				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
0% 0.0	3% 0.1	97% 3.9	98	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clarissa				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
15% 0.9	40% 2.4	45% 2.7	63	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clarkfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100) ^{***}	Age of Treatment* Facilities - yrs.
40% 7.4	20% 3.7	40% 7.4	49	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Clarks Grove				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	70% 2.1	30% 0.9	61	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clear Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	51% 2.6	49% 2.5	72	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clearbrook				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
67% 3.1	7% 0.3	26% 1.2	29	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clearwater				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	60% 5.5	40% 3.7	67	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clements				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Climax				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 1.1	35% 0.6	5% 0.1	21	49
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Clinton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	25% 1.3	75% 3.8	86	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cohasset				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	20% 2.6	80% 10.4	89	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cokato				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 9.0	40% 7.2	10% 1.8	28	17
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Cold Spring				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 6.1	15% 4.5	65% 19.7	72	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Coleraine				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
78% 5.5	0% 0.0	22% 1.5	22	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Coleraine, Bovey Taconite Joint WW Commissi				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.5	100	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cologne				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	60% 5.4	40% 3.6	67	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Columbia Heights				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
47% 28.6	49% 29.8	4% 2.4	26	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Comfrey				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 2.2	0% 0.0	80% 8.8	80	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Comstock				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	48
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cook				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	1% 0.1	99% 5.9	99	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Coon Rapids				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
6% 14.6	62% 151.1	32% 78.0	60	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Corcoran				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.2	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cosmos				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 4.1	15% 0.7	53	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cottage Grove				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	30% 39.3	70% 91.8	83	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cottonwood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
43% 3.4	16% 1.3	41% 3.3	48	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Courtland				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 13.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cromwell				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	25% 0.8	75% 2.3	86	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Crookston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 26.4	25% 11.0	15% 6.6	26	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Crosby				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
85% 11.2	5% 0.7	10% 1.3	12	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Crosslake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

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Crystal			Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
67% 58.8	28% 24.6	5% 4.4	17	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Currie			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
50% 1.1	0% 0.0	50% 1.1	50	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Cyrus			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
65% 2.0	10% 0.3	25% 0.8	29	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dalton			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
0% 0.0	90% 2.3	10% 0.3	50	44
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Danube			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Darfur			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.1	100	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Darwin			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
80% 1.8	5% 0.1	15% 0.3	17	54
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dassel			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
20% 2.4	30% 3.6	50% 6.0	63	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dawson			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
50% 6.0	35% 4.2	15% 1.8	31	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Dayton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 30.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Deephaven				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	100% 32.0	0% 0.0	44	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Deer Creek				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	75% 3.8	25% 1.3	58	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Deer River				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 4.2	15% 1.1	25% 1.8	32	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Deerwood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
35% 1.4	0% 0.0	65% 2.6	65	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Delano				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 1.5	50% 15.3	45% 13.7	67	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dennison				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 0.6	0% 0.0	55% 0.7	55	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dent				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 1.8	10% 0.2	50	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Detroit Lakes				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 25.5	20% 17.0	50% 42.5	59	17
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

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Dilworth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
40% 8.3	10% 2.1	50% 10.4	54	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dodge Center				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 4.0	30% 4.8	45% 7.2	58	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dover				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	50% 2.0	50% 2.0	72	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dover Eyota St Charles SD				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
	100% 10.0		44	37
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dovray				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.3	100	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Duluth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
60% 225.6	19% 71.4	21% 79.0	29	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dumont				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dundas				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 11.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Dunnell				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Eagan				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
3% 8.4	47% 131.6	50% 140.0	71	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Eagle Bend				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
35% 1.9	10% 0.6	55% 3.0	59	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Eagle Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	40% 12.0	60% 18.0	78	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
East Bethel				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.7	100	0
Percentage / Miles	Percentage / Miles	Percentage / Miles		
East Grand Forks				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 13.0	60% 39.0	20% 13.0	47	57
Percentage / Miles	Percentage / Miles	Percentage / Miles		
East Gull Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 6.0	100	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Echo				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 2.5	0% 0.0	50% 2.5	50	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Eden Prairie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	39% 102.2	61% 159.8	78	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Eden Valley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
18% 1.4	46% 3.7	36% 2.9	56	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

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Edgerton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
35% 22.8	40% 26.0	25% 16.3	43	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Edina				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
50% 100.0	30% 60.0	20% 40.0	33	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Effie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.5	100	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Eitzen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Elizabeth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 1.9	0% 0.0	44	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Elk River				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 4.0	40% 31.6	55% 43.5	73	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Elko New Market				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 18.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Elkton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ellendale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 1.5	0% 0.0	44	33
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Ellsworth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
95% 3.8	0% 0.0	5% 0.2	5	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Elmore				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 0.5	50% 0.5	72	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ely				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
37% 11.8	40% 12.8	23% 7.4	41	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Elysian				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 5.9	10% 0.7	50	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Emily				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.5	100	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Emmons				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 1.8	10% 0.4	40% 1.4	44	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Erskine				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 6.4	20% 1.6	56	47
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Evan				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Evansville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	10% 0.4	90% 3.6	94	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Eveleth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
64% 14.7	10% 2.3	26% 6.0	30	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Excelsior				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
80% 10.4	15% 2.0	5% 0.7	12	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Eyota				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	40% 3.9	60% 5.9	78	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fairfax				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 2.5	28% 2.8	47% 4.7	59	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fairmont				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
35% 26.1	29% 21.6	36% 26.9	49	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Falcon Heights				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
75% 11.3	10% 1.5	15% 2.3	19	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Faribault				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
34% 40.1	19% 22.4	47% 55.4	55	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Farmington				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
5% 4.3	5% 4.3	90% 77.6	92	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Farwell/Kensington Sanitary District				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.5	100	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Alphabetical by Name of Community

Felton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 8.0	0% 0.0	44	44
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fergus Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
37% 33.3	18% 16.2	45% 40.5	53	32
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fertile				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
68% 3.0	19% 0.8	13% 0.6	21	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Finlayson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 5.0	0% 0.0	44	37
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fisher				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 2.6	15% 0.5	53	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Foley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 3.4	30% 5.1	50% 8.5	63	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Forada				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.1	100	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Forest Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
10% 8.9	30% 26.7	60% 53.4	73	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Foreston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 2.6	15% 0.5	53	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Fosston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
70% 9.0	20% 2.6	10% 1.3	19	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fountain				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 9.0	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Franklin				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
27% 1.4	8% 0.4	65% 3.4	69	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Freeborn				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 4.0	50% 4.0	72	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Freeport				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.9	0% 0.0	95% 16.2	95	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fridley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
10% 11.0	70% 77.0	20% 22.0	51	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Fulda				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 3.0	45% 4.5	25% 2.5	45	48
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Garfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	1% 0.0	99% 2.2	99	1
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Garrison Kathio W. Mille Lacs Lake Sanitary Dis				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 8.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Gary				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Gaylord				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 4.2	30% 5.0	45% 7.5	58	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
GEMSSanitary District				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 12.0	100	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Georgetown				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	31
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ghent				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 0.8	45% 1.2	25% 0.7	45	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Gibbon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 3.2	40% 3.2	20% 1.6	38	50
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Gilbert				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 7.6	40% 15.2	40% 15.2	58	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Gilman				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 3.6	10% 0.4	50	50
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Glencoe				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 7.2	40% 14.5	40% 14.5	58	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Glenville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 4.0	5% 0.2	47	41
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Glenwood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 16.0	5% 1.0	15% 3.0	17	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Glyndon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	23% 1.8	77% 6.2	87	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Golden Valley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
80% 96.0	10% 12.0	10% 12.0	14	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Gonvick				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	99% 2.6	1% 0.0	45	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Good Thunder				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 4.8	10% 0.6	10% 0.6	14	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Goodhue				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 2.4	25% 1.5	35% 2.1	46	32
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Goodridge				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Goodview				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
40% 9.1	20% 4.6	40% 9.1	49	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Graceville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
70% 3.6	20% 1.0	10% 0.5	19	48
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Granada				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 7.0	0% 0.0	44	34
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Grand Marais				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 3.2	45% 7.2	35% 5.6	55	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Grand Meadow				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
1% 0.1	44% 4.0	55% 5.0	75	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Grand Rapids				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 20.6	30% 20.6	40% 27.4	53	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Granite Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 10.1	10% 2.3	45% 10.1	49	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Grasston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 1.5	10% 0.2	50	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Green Isle				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 19.0	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Greenbush				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
48% 2.9	25% 1.5	27% 1.6	38	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Greenfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.2	100	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Greenwood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	100% 6.0	0% 0.0	44	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Grey Eagle				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 3.6	10% 0.4	50	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hackensack				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	10% 0.7	90% 6.3	94	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Halstad				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 0.5	20% 1.0	70% 3.5	79	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hamburg				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 2.8	20% 0.7	56	37
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hammond				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hanover				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 17.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hanska				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 3.0	0% 0.0	44	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Alphabetical by Name of Community

Hardwick				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 1.4	5% 0.1	47	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Harmony				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 4.8	15% 0.9	5% 0.3	12	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Harris				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 3.0	0% 0.0	44	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hastings				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
22% 19.5	22% 19.5	56% 49.7	66	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hatfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.5	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hawley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 1.1	20% 2.2	70% 7.7	79	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hayfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	50% 4.0	50% 4.0	72	1
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hayward				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 1.7	15% 0.3	53	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hazel Run				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	0
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Hector				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
70% 9.8	20% 2.8	10% 1.4	19	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hendricks				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 4.2	20% 1.4	20% 1.4	29	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Henning				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	40% 1.5	60% 2.2	78	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Henriette				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 10.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Herman				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hermantown				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	10% 7.2	90% 64.8	94	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Heron Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 6.0	100	46
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hewitt				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hibbing				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 81.6	15% 15.3	5% 5.1	12	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Hill City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 5.0	45% 4.5	5% 0.5	25	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hills				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	75% 19.5	25% 6.5	58	50
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hitterdal				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	70% 1.6	30% 0.7	61	46
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hoffman				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	5% 0.2	95% 3.8	97	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hollandale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	33
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Holloway				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 3.6	10% 0.4	50	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hopkins				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
50% 20.0	40% 16.0	10% 4.0	28	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Houston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 3.2	10% 0.4	10% 0.4	14	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hoyt Lakes				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 18.4	15% 3.5	5% 1.2	12	58
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Hugo				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	10% 4.2	90% 37.8	94	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Hutchinson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
35% 32.8	35% 32.8	30% 28.1	46	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ihlen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Independence				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	30% 3.6	70% 8.3	83	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
International Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
29% 11.9	56% 23.0	15% 6.2	40	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Inver Grove Heights				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	35% 45.6	65% 84.7	81	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Iron Junction				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.0	100	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ironton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
98% 2.9	0% 0.0	2% 0.1	2	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Isanti				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	20% 6.0	80% 24.0	89	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Isle				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.5	50% 4.8	45% 4.3	67	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Jackson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 10.8	22% 5.9	38% 10.3	48	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Janesville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
13% 3.0	36% 8.3	51% 11.7	67	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Jeffers				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.3	75% 3.8	20% 1.0	53	44
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Jordan				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
2% 0.6	7% 1.9	91% 25.3	94	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kandiyohi				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
65% 2.6	0% 0.0	35% 1.4	35	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Karlstad				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	41
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kasson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 8.7	35% 10.2	35% 10.2	51	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kelliher				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
61% 2.4	36% 1.4	3% 0.1	19	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Kellogg				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kennedy				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 2.0	50% 2.0	0% 0.0	22	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kenneth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kenyon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
33% 2.8	20% 1.7	47% 4.0	56	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kerkhoven				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 8.0	20% 2.0	56	46
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kettle River				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.1	0% 0.0	95% 1.9	95	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kiester				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 7.0	0% 0.0	44	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kilkenny				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Kimball				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 0.6	10% 0.6	80% 4.5	84	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Kinney				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	90% 4.1	10% 0.5	50	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lafayette				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Benton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 0.4	30% 0.6	50% 1.0	63	46
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Bronson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 13.6	20% 6.8	40% 13.6	49	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Crystal				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 12.0	20% 6.0	40% 12.0	49	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Elmo				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 8.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Henry				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 0.3	0% 0.0	70% 0.7	70	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Lillian				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.5	0% 0.0	44	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Lake Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
48% 2.9	10% 0.6	42% 2.5	46	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Shore				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.2	100	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lake Wilson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	75% 1.9	25% 0.6	58	58
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lakefield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 9.0	30% 4.5	10% 1.5	23	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Laketown Township				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.5	100	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lakeville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	10% 26.0	90% 234.2	94	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lamberton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
17% 1.2	13% 0.9	70% 5.0	76	55
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lanesboro				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
90% 5.4	0% 0.0	10% 0.6	10	74
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Laporte				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Alphabetical by Name of Community

Lauderdale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
10% 0.6	0% 0.0	90% 5.4	90	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Le Center				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 7.5	0% 0.0	50% 7.5	50	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lester Prairie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
48% 4.8	26% 2.6	26% 2.6	38	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lewiston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 4.0	20% 2.0	40% 4.0	49	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lewisville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 1.2	40% 0.8	0% 0.0	18	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lexington				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	95% 9.5	5% 0.5	47	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lino Lakes				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	15% 10.0	85% 56.9	92	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lismore				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Litchfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 5.2	30% 7.8	50% 13.0	63	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Community Name			Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
Little Canada				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% | 0.0	75% | 24.8	25% | 8.3	58	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Little Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% | 16.4	28% | 18.4	47% | 30.9	59	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Littlefork				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
22% | 1.3	50% | 3.0	28% | 1.7	50	39
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Long Prairie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
36% | 6.1	26% | 4.4	38% | 6.5	50	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Longville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
15% | 0.6	15% | 0.6	70% | 2.8	77	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lonsdale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% | 15.5	10% | 3.1	40% | 12.4	44	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Loretto				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% | 0.8	30% | 1.2	50% | 2.0	63	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lowry				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% | 0.0	0% | 0.0	100% | 3.0	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lucan				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 1.9	5% 0.1	47	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Luverne				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 21.4	20% 7.1	20% 7.1	29	59
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Lynd				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 10.0	100	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mabel				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 1.2	20% 0.8	50% 2.1	59	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Madelia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
78% 12.5	7% 1.1	15% 2.4	18	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Madison				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 2.9	10% 1.1	65% 7.4	69	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Magnolia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 1.8	10% 0.2	50	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mahnomen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 0.9	20% 1.8	70% 6.3	79	54
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mahtomedi				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	40% 16.4	60% 24.6	78	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mankato				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
22% 44.2	22% 44.2	56% 112.6	66	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Mantorville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 1.5	60% 3.5	15% 0.9	42	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Maple Grove				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	15% 41.7	85% 236.3	92	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Maple Plain				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
77% 8.5	10% 1.1	13% 1.4	17	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mapleton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 1.1	48% 5.1	42% 4.5	63	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mapleview				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
100% 2.0	0% 0.0	0% 0.0	0	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Maplewood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
30% 46.2	45% 69.3	25% 38.5	45	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Marble				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
75% 5.4	0% 0.0	25% 1.8	25	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Marietta				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	34
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Marine on St Croix				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.4	100	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Marshall				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
17% 14.0	27% 22.2	56% 46.1	68	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mayer				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	18% 2.0	82% 9.0	90	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Maynard				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
98% 2.9	2% 0.1	0% 0.0	1	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mazepa				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 3.6	10% 0.6	30% 1.8	34	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
McGrath				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 8.0	100	1
Percentage / Miles	Percentage / Miles	Percentage / Miles		
McGregor				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 1.7	41% 1.5	14% 0.5	32	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Medford				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	53% 6.3	47% 5.6	71	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Medina				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
	33% 11.6	67% 23.7	82	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Menahga				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.8	35% 5.3	60% 9.0	76	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Mendota				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mendota Heights				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	50% 36.0	50% 36.0	72	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Milaca				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
67% 7.0	17% 1.8	16% 1.7	24	54
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Milroy				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 6.0	0% 0.0	44	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Miltona				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 1.6	0% 0.0	60% 2.4	60	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Minneapolis				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
95% 731.5	4% 30.8	1% 7.7	3	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Minneota				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 2.5	0% 0.0	50% 2.5	50	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Minnesota City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Minnesota Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
75% 35.1	20% 9.4	5% 2.3	14	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS) Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Minnetonka			Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
0% 0.0	30% 77.4	70% 180.6	83	[]
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Minnetonka Beach			Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
0% 0.0	100% 5.0	0% 0.0	44	[]
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Montevideo			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
65% 47.5	20% 14.6	15% 11.0	24	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Montgomery			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
24% 5.4	30% 6.8	46% 10.4	59	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Monticello			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
2% 0.8	20% 8.0	78% 31.2	87	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Montrose			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
5% 1.1	5% 1.1	90% 20.6	92	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Moorhead			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
32% 59.5	23% 42.8	45% 83.7	55	32
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Moose Lake			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
60% 5.4	20% 1.8	20% 1.8	29	50
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Morgan			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
85% 6.0	10% 0.7	5% 0.4	9	61
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Morris				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
12% 3.8	40% 12.8	48% 15.4	66	39
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Morristown				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	86% 5.2	14% 0.8	52	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Morton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.2	0% 0.0	95% 3.8	95	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Motley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
	95% 5.7	5% 0.3	47	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mound				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	97% 63.1	3% 2.0	46	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mounds View				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	91% 40.0	9% 4.0	49	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mountain Iron				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
18% 4.5	45% 11.3	37% 9.3	57	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Mountain Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 1.8	30% 5.4	60% 10.8	73	59
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Murdock				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Nashwauk				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
35% 2.5	10% 0.7	55% 3.9	59	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Nevis				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 6.0	100	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Auburn				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 3.0	5% 0.2	47	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Brighton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
45% 34.7	45% 34.7	10% 7.7	30	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Germany				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.7	100	41
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Hope				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	98% 61.7	2% 1.3	46	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New London				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
15% 1.1	5% 0.4	80% 5.6	82	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Munich				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 4.3	15% 0.8	53	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Prague				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 10.8	25% 10.8	50% 21.5	61	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

New Richland				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 1.5	60% 4.6	20% 1.5	47	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New Ulm				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
33% 26.9	22% 17.9	45% 36.6	55	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
New York Mills				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 2.2	30% 3.3	50% 5.5	63	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Newfolden				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 3.8	5% 0.2	47	37
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Newport				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
0% 0.0	90% 18.0	10% 2.0	50	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Nicollet				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
4% 0.4	35% 3.2	61% 5.5	77	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Nielsville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Nisswa				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 13.6	100	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
North Branch				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
7% 2.7	8% 3.0	85% 32.4	89	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

North Mankato				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
7% 4.7	29% 19.4	64% 42.9	77	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Northfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 8.3	20% 16.6	70% 58.1	79	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Northome				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 2.0	40% 2.0	20% 1.0	38	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Norwood Young America				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 11.1	40% 8.9	10% 2.2	28	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Oak Grove				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Oak Park Heights				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	48% 11.0	52% 12.0	73	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Oakdale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	50% 53.5	50% 53.5	72	7
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Odessa				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ogilvie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
95% 2.6	0% 0.0	5% 0.1	5	46
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Okabena				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	75% 3.0	25% 1.0	58	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Oklee				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.0	100	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Olivia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 2.4	46% 11.0	44% 10.6	64	32
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Onamia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
85% 3.8	0% 0.0	15% 0.7	15	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Orono				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	35% 20.0	65% 37.1	81	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Orr				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 1.5	0% 0.0	50% 1.5	50	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ortonville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 2.4	1% 0.2	89% 21.4	89	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Osakis				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
8% 1.0	6% 0.7	86% 10.3	89	44
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Oslo				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
85% 3.3	14% 0.5	1% 0.0	7	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Ostrander				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
100% 4.0	0% 0.0	0% 0.0	0	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Otsego				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 73.6	100	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Owatonna				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 100.0	30% 60.0	20% 40.0	33	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Palisade				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 7.0	100	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Park Rapids				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 9.3	10% 3.1	60% 18.6	64	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Parkers Prairie				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 5.0	23% 2.3	27% 2.7	37	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Paynesville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 1.9	40% 7.4	50% 9.3	68	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Pease				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Pelican Rapids				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 3.5	25% 3.5	50% 7.0	61	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Pemberton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	13
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Pequot Lakes				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
15% 1.1	60% 4.4	25% 1.8	52	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Perham				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 6.8	9% 2.4	66% 17.8	70	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Perley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 1.4	0% 0.0	44	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Pine City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 4.8	25% 6.0	55% 13.2	66	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Pine Island				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 7.2	30% 7.2	40% 9.6	53	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Pipestone				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
21% 7.5	28% 9.9	51% 18.1	63	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Plainview				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
50% 8.0	20% 3.2	30% 4.8	39	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Plainview - Elgin Sanitary District				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
	0.0	100% 5.0	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Plymouth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	35% 114.8	65% 213.2	81	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Porter				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 3.5	0% 0.0	44	33
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Preston				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 1.2	15% 1.8	75% 9.0	82	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Princeton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
77% 18.5	14% 3.4	9% 2.2	15	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Prinsburg				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.5	100	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Prior Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
4% 5.0	26% 32.8	70% 88.2	82	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ramsey				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 64.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Randall				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 4.0	20% 1.0	56	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Raymond				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 1.6	50% 4.0	30% 2.4	52	1
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Alphabetical by Name of Community

Red Lake Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 3.3	40% 4.4	30% 3.3	48	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Red Wing				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
55% 71.5	15% 19.5	30% 39.0	37	31
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Redwood Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 19.7	25% 9.8	25% 9.8	36	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Remer				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Renville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 5.4	40% 7.2	30% 5.4	48	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Revere				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rice				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 5.0	100	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rich Prairie Water & Sewer District (Pierz/Genol)				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Richfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
97% 116.4	0% 0.0	3% 3.6	3	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Alphabetical by Name of Community

Richmond				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 0.9	20% 1.8	70% 6.3	79	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Robbinsdale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
73% 31.4	9% 3.9	18% 7.7	22	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rochester				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
26% 124.7	21% 100.7	53% 254.1	62	8
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rockford				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 4.0	25% 5.0	55% 11.0	66	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rogers				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
3% 1.7	8% 4.6	89% 50.7	93	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rollingstone				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	60% 2.1	40% 1.4	67	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Roseau				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	4% 0.7	96% 17.3	98	17
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rosemount				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
2% 2.0	24% 24.0	74% 73.9	85	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Roseville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
75% 108.8	20% 29.0	5% 7.3	14	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Rothsay				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 2.0	20% 0.8	30% 1.2	39	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Royalton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 4.9	10% 0.5	50	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rush City				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
65% 9.8	15% 2.3	20% 3.0	27	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rushford				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 6.8	20% 3.0	35% 5.3	44	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rushford Village				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
	0.0	100% 2.9	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Rushmore				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	75% 3.8	25% 1.3	58	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Russell				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	35% 1.1	65% 2.0	81	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ruthton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.2	100	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sabin				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 0.8	30% 1.2	50% 2.0	63	34
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Sacred Heart				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
98% 4.9	0% 0.0	2% 0.1	2	17
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sanborn				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
90% 6.3	10% 0.7	0% 0.0	4	45
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sandstone				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
30% 3.6	20% 2.4	50% 6.0	59	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sargeant				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sartell				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
5% 4.1	17% 13.9	78% 63.7	86	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sauk Centre				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 33.0	30% 16.5	10% 5.5	23	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sauk Rapids				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
47% 31.5	15% 10.1	38% 25.5	45	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Savage				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
1% 1.3	15% 19.1	84% 106.8	91	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Scanlon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
76% 3.8	0% 0.0	24% 1.2	24	Age of Treatment* Facilities - yrs.
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Seaforth				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.1	100	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sebeka				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
10% 0.6	15% 0.9	75% 4.5	82	39
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Shafer				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	25% 1.5	75% 4.6	86	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Shakopee				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
8% 11.6	34% 49.3	58% 84.1	73	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Shelly				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	95% 1.9	5% 0.1	47	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sherburn				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
69% 9.0	20% 2.6	11% 1.4	20	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Shoreview				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	55% 68.2	45% 55.8	69	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Shorewood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	85% 55.3	15% 9.8	53	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Silver Bay				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
100% 9.0	0% 0.0	0% 0.0	0	19
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Silver Creek				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 9.9	100	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Silver Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 1.8	40% 3.6	40% 3.6	58	25
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Slayton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
85% 17.0	10% 2.0	5% 1.0	9	57
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sleepy Eye				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 5.0	50% 12.5	30% 7.5	52	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sobieski				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	75% 1.5	25% 0.5	58	39
Percentage / Miles	Percentage / Miles	Percentage / Miles		
South Haven				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		
South St Paul				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
40% 30.8	51% 39.3	9% 6.9	32	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Spicer				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
10% 1.7	10% 1.7	80% 13.6	84	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Spring Grove				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 8.0	30% 4.8	20% 3.2	33	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Spring Lake Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	80% 20.8	20% 5.2	56	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Spring Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	90% 4.5	10% 0.5	50	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Spring Valley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 12.2	25% 6.8	30% 8.1	41	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Springfield				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 6.0	24% 2.9	26% 3.1	37	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Anthony				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
50% 1.3	0.0	50% 1.3	50	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Bonifacius				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
0% 0.0	20% 2.0	80% 8.0	89	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Charles				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF** Age of Treatment* Facilities - yrs.
31% 6.8	37% 8.1	32% 7.0	48	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Clair				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	70% 2.8	30% 1.2	61	16
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Cloud				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 145.5	25% 72.8	25% 72.8	36	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

St Francis				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	5% 1.6	95% 30.5	97	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Hilaire				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	60% 1.2	40% 0.8	67	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St James				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
75% 21.8	10% 2.9	15% 4.4	19	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Joseph				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
15% 4.8	15% 4.8	70% 22.2	77	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Louis Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
88% 140.8	10% 16.0	2% 3.2	6	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Michael				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
4% 3.3	4% 3.3	92% 75.4	94	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Paul				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
72% 581.8	18% 145.4	10% 80.8	18	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Paul Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
70% 14.7	25% 5.3	5% 1.1	16	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
St Peter				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
27% 15.4	30% 17.1	43% 24.5	56	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Staples				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 9.9	30% 6.6	25% 5.5	38	48
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Starbuck				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
50% 5.1	8% 0.8	42% 4.3	46	48
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Steen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Stephen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 6.5	40% 5.2	10% 1.3	28	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Stewart				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
62% 3.1	7% 0.4	31% 1.6	34	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Stewartville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
35% 9.8	20% 5.6	45% 12.6	54	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Stillwater				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
50% 45.0	30% 27.0	20% 18.0	33	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Stockton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 2.7	10% 0.3	50	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Sunburg				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 2.0	100	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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Alphabetical by Name of Community

Swanville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 3.6	10% 0.4	50	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Taconite				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
20% 1.2	25% 1.5	55% 3.3	66	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Tamarack				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	12
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Taunton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Taylor's Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	20% 2.4	80% 9.6	89	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Thief River Falls				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 25.8	15% 6.5	25% 10.8	32	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Tonka Bay				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	80% 8.0	20% 2.0	56	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Tracy				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 6.3	50% 12.5	25% 6.3	47	47
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Trimont				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 8.0	0% 0.0	44	10
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Truman				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 3.2	45% 3.6	15% 1.2	35	27
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Twin Lakes				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Twin Valley				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
15% 1.1	10% 0.7	75% 5.5	79	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Two Harbors				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 16.0	10% 2.0	10% 2.0	14	0
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Tyler				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 2.0	20% 2.0	60% 6.0	69	57
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Ulen				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 4.0	100	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Underwood				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 5.1	15% 0.9	53	4
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Upsala				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
75% 4.5	15% 0.9	10% 0.6	17	42
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Utica				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	85% 2.6	15% 0.5	53	38
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Vadnais Heights				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	30% 16.2	70% 37.8	83	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Vergas				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	80% 3.0	20% 0.8	56	18
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Verndale				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	32% 1.3	68% 2.7	82	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Vernon Center				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
85% 2.2	10% 0.3	5% 0.1	9	43
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Vesta				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	26
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Victoria				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	15% 7.6	85% 42.9	92	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Viking				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.5	100	0
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Virginia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 43.8	20% 14.6	20% 14.6	29	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wabasha				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
20% 5.2	20% 5.2	60% 15.6	69	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Wabasso				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
75% 3.4	20% 0.9	5% 0.2	14	50
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waconia				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
24% 13.2	20% 11.0	56% 30.8	65	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wadena				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
45% 12.6	20% 5.6	35% 9.8	44	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wahkon				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 4.0	0% 0.0	44	35
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waite Park				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
5% 1.6	20% 6.4	75% 24.0	84	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waldorf				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
90% 1.8	10% 0.2	0% 0.0	4	60
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Walker				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
55% 6.0	40% 4.4	5% 0.5	23	17
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Walnut Grove				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
52% 3.8	0% 0.0	48% 3.5	48	47
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wanda				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	15
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Warren				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
40% 6.4	40% 6.4	20% 3.2	38	11
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Warroad				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
11% 2.9	34% 9.0	55% 14.6	70	21
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waseca				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 11.3	50% 22.5	25% 11.3	47	1
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Watertown				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
25% 6.5	5% 1.3	70% 18.2	72	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waterville				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
55% 16.6	25% 7.6	20% 6.0	31	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Watkins				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 3.0	100	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Watson				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 14.0	100	0
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waubun				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 10.0	0% 0.0	44	46
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Waverly				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
25% 3.3	0% 0.0	75% 9.8	75	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		

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** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Wayzata				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
70% 20.1	20% 5.7	10% 2.9	19	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Welcome				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 7.0	0% 0.0	44	49
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wells				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
60% 19.2	30% 9.6	10% 3.2	23	24
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wendell				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
	0.0	100% 20.0	100	28
Percentage / Miles	Percentage / Miles	Percentage / Miles		
West Concord				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
75% 6.0	10% 0.8	15% 1.2	19	9
Percentage / Miles	Percentage / Miles	Percentage / Miles		
West St Paul				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
30% 18.6	54% 33.5	16% 9.9	40	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Western Lake Superior Sanitary District (WLSS)				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
19% 14.1	41% 30.4	40% 29.7	58	37
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wheaton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
5% 0.6	20% 2.2	75% 8.3	84	22
Percentage / Miles	Percentage / Miles	Percentage / Miles		
White Bear Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
50% 42.5	33% 28.1	17% 14.5	32	
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

White Bear Township			Composite Score of Sewer System Age (1 - 100)***	Does Not Operate WWTF**
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		Age of Treatment* Facilities - yrs.
7% 4.1	53% 30.7	40% 23.2	64	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Williams			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
10% 0.3	0% 0.0	90% 2.7	90	2
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Willmar			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
32% 36.8	27% 31.1	41% 47.2	53	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wilmont			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
0% 0.0	94% 2.8	6% 0.2	48	36
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Windom			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
7% 2.8	30% 12.0	63% 25.2	76	20
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Winger			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
0% 0.0	50% 1.0	50% 1.0	72	40
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Winnebago			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
55% 14.9	10% 2.7	35% 9.5	39	3
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Winona			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
60% 72.0	20% 24.0	20% 24.0	29	14
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Winsted			Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old		
5% 1.1	75% 16.5	20% 4.4	53	30
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Winton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
80% 1.6	10% 0.2	10% 0.2	14	29
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wolf Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
	0.0	100% 1.6	100	6
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wolverton				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
20% 0.2	0% 0.0	80% 0.8	80	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wood Lake				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	100% 2.0	0% 0.0	44	44
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Woodbury				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
4% 9.9	19% 47.1	77% 191.0	85	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Woodland				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	<u>Does Not Operate WWTF**</u> Age of Treatment* Facilities - yrs.
0% 0.0	0% 0.0	100% 1.0	100	
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Worthington				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
50% 31.7	30% 19.0	20% 12.7	33	23
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Wykoff				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	90% 2.7	10% 0.3	50	0
Percentage / Miles	Percentage / Miles	Percentage / Miles		
Zimmerman				
Sewers over 50 years old	Sewers 30 to 50 years old	Sewers less than 30 years old	Composite Score of Sewer System Age (1 - 100)***	Age of Treatment* Facilities - yrs.
0% 0.0	40% 12.9	60% 19.3	78	5
Percentage / Miles	Percentage / Miles	Percentage / Miles		

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

Appendix 6: 2015 Wastewater Infrastructure Needs Survey (WINS)

Age of Infrastructure of Individual Communities

Alphabetical by Name of Community

Zumbro Falls		Sewers over 50 years old		Sewers 30 to 50 years old		Sewers less than 30 years old		Composite Score of Sewer System Age (1 - 100)***		Age of Treatment* Facilities - yrs.	
80%	2.0	0%	0.0	20%	0.5	20		25			
Percentage / Miles		Percentage / Miles		Percentage / Miles							
Zumbrota		Sewers over 50 years old		Sewers 30 to 50 years old		Sewers less than 30 years old		Composite Score of Sewer System Age (1 - 100)***		Age of Treatment* Facilities - yrs.	
29%	6.4	30%	6.6	41%	9.0	54		31			
Percentage / Miles		Percentage / Miles		Percentage / Miles							

* In answering the WINS question "What is the Age of your Treatment Facility in years?" communities are instructed to use the original construction date or the date of the most recent permitted wastewater treatment expansion (whichever is more recent) as the "birth-date" for the age of your their facility.

** Community discharges wastewater to another community, Sanitary District, MCES, etc., for treatment.

*** This score combines the age category percentages of the sewer system into an aggregate (1 - 100) score.

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Ada	1,666	\$16.64
Adams	800	\$26.00
Adrian	1,158	\$19.50
Aitkin	2,636	\$27.59
Akeley	378	\$2.10
Albany	2,501	\$16.67
Albert Lea	18,046	\$29.47
Albertville	6,790	\$18.71
Alden	665	\$20.00
Altura	451	\$21.67
Alvarado	348	\$2.38
Amboy	577	\$36.00
Andover	30,371	\$19.79
Annandale	3,238	\$83.00
Anoka	17,357	\$21.38
Apple Valley	49,020	\$19.04
Appleton	2,017	\$39.27
Arden Hills	9,529	\$29.09
Argyle	497	\$23.50
Arlington	2,569	\$43.30
Ashby	472	\$62.00
Askov	417	\$23.50
Atwater	1,012	\$41.83
Audubon	561	\$41.00
Aurora	1,682	\$37.76
Austin	24,559	\$21.62
Avon	1,264	\$34.95
Babbitt	1,300	\$35.50
Backus	380	\$37.00
Badger	388	\$18.00
Bagley	1,416	\$29.17

Community	Population	Mo. Residential Sewer Charge
Balaton	676	\$25.00
Barnesville	2,524	\$46.00
Barnum	627	\$38.75
Barrett	345	\$31.58
Battle Lake	813	\$41.60
Baudette	1,237	\$27.75
Baxter	7,471	\$31.22
Bayport	3,465	\$26.20
Beardsley	253	\$15.00
Beaver Bay	110	\$34.11
Beaver Creek	238	\$2.50
Becker	4,436	\$31.50
Bejou	107	\$13.00
Belgrade	793	\$29.50
Belle Plaine	6,501	\$79.96
Bellingham	229	\$23.50
Belview	400	\$26.00
Bemidji	13,354	\$39.58
Benson	3,165	\$40.67
Bertha	552	\$56.00
Bethel	470	\$35.00
Big Falls	199	\$42.00
Big Lake	9,867	\$50.33
Bigelow	217	\$64.58
Bigfork	473	\$37.70
Bingham Lake	155	\$37.65
Birchwood	870	\$25.83
Bird Island	966	\$35.30
Biwabik	1,150	\$23.23
Blackduck	783	\$21.00
Blaine	56,261	\$14.90

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Blomkest/Svea Sewer Board	177	\$82.75
Blooming Prairie	1,919	\$35.00
Bloomington	82,962	\$16.50
Blue Earth	3,368	\$41.85
Bluffton	161	\$15.00
Bock	82	\$58.17
Bovey	843	\$36.50
Boyd	209	\$40.00
Braham	1,754	\$43.08
Brainerd	13,715	\$37.25
Brandon	440	\$41.25
Breckenridge	3,401	\$23.50
Breezy Point	1,955	\$22.60
Brewster	532	\$16.50
Bricelyn	325	\$34.08
Brooklyn Center	29,949	\$24.90
Brooklyn Park	74,743	\$15.60
Brooten	753	\$12.75
Browerville	715	\$31.13
Browns Valley	580	\$33.30
Brownsdale	696	\$20.00
Brownsville	638	\$36.00
Brownton	709	\$41.58
Buckman	213	\$40.00
Buffalo	15,127	\$35.45
Buffalo Lake	786	\$16.93
Burnsville	60,699	\$32.60
Butterfield	514	\$26.50
Byron	4,799	\$48.15
Caledonia	2,880	\$30.83
Callaway	231	\$19.25

Community	Population	Mo. Residential Sewer Charge
Calumet	367	\$37.83
Cambridge	8,009	\$24.89
Campbell	213	\$8.00
Canby	1,924	\$23.00
Cannon Falls	4,073	\$40.63
Carlos	592	\$25.00
Carlton	833	\$48.60
Carver	3,519	\$28.10
Cass Lake	676	\$23.25
Cedar Mills	70	\$6.17
Center City	581	\$27.00
Centerville	3,762	\$22.80
Ceylon	361	\$28.95
Champlin	22,937	\$26.21
Chandler	237	\$40.00
Chanhassen	23,000	\$20.27
Chaska	23,429	\$18.05
Chatfield	1,679	\$66.37
Chisago City	4,919	\$18.22
Chisholm	4,962	\$44.50
Chokio	370	\$26.92
Circle Pines	4,921	\$28.25
Clara City	1,198	\$46.00
Claremont	596	\$45.40
Clarissa	765	\$44.42
Clarkfield	702	\$28.90
Clarks Grove	603	\$15.00
Clear Lake	546	\$116.25
Clearbrook	600	\$22.00
Clearwater	1,588	\$71.55
Clements	156	\$25.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Cleveland	672	\$25.75
Climax	256	\$42.00
Clinton	426	\$41.67
Cloquet	12,076	\$24.10
Cobden	24	\$33.70
Cohasset	2,675	\$44.50
Cokato	2,749	\$47.80
Cold Spring	3,960	\$44.50
Coleraine	1,917	\$25.00
Cologne	1,489	\$43.30
Columbia Heights	19,532	\$17.94
Comfrey	471	\$25.83
Comstock	139	\$48.67
Conger	148	\$3.92
Cook	780	\$61.25
Coon Rapids	61,876	\$25.00
Correll	41	\$1.67
Cosmos	550	\$20.08
Cottage Grove	34,394	\$16.65
Cottonwood	992	\$42.00
Courtland	608	\$40.50
Cromwell	138	\$31.25
Crookston	7,887	\$11.25
Crosby	2,186	\$36.83
Crosslake	1,979	\$36.00
Crystal	22,154	\$16.67
Currie	207	\$13.50
Cyrus	380	\$17.33
Dalton	312	\$25.00
Danube	413	\$11.68
Danvers	133	\$18.75

Community	Population	Mo. Residential Sewer Charge
Darfur	67	\$38.00
Darwin	424	\$27.08
Dassel	1,488	\$51.50
Dawson	1,424	\$30.44
Dayton	4,622	\$13.75
Deephaven	3,658	\$28.33
Deer Creek	257	\$30.00
Deer River	1,032	\$25.25
Deerwood	404	\$38.58
Delano	5,401	\$74.17
Dennison	137	\$19.53
Dent	199	\$25.00
Detroit Lakes	8,507	\$32.29
Dilworth	3,925	\$34.62
Dodge Center	2,640	\$35.62
Donnelly	272	\$13.00
Doran	24	\$40.00
Dover	744	\$31.67
Dovray	58	\$50.00
Duluth	86,177	\$42.69
Dumont	65	\$30.00
Dundas	1,337	\$68.25
Eagan	64,535	\$16.55
Eagle Bend	497	\$33.00
Eagle Lake	2,384	\$41.67
East Bethel	11,621	\$16.41
East Grand Forks	8,458	\$21.29
East Gull Lake	1,088	\$34.33
Easton	181	\$29.33
Echo	309	\$35.20
Eden Prairie	60,024	\$17.72

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Eden Valley	534	\$36.25
Edgerton	1,277	\$15.00
Edina	47,790	\$18.19
Effie	136	\$4.58
Eitzen	243	\$23.00
Elbow Lake	1,274	\$34.00
Elgin	1,320	\$12.50
Elizabeth	199	\$10.00
Elk River	22,790	\$21.00
Elko New Market	3,845	\$40.02
Elkton	128	\$36.00
Ellendale	654	\$12.00
Ellsworth	470	\$24.00
Elmore	657	\$40.67
Ely	3,502	\$59.99
Elysian	422	\$30.25
Emily	758	\$45.02
Emmons	347	\$10.50
Erskine	494	\$21.00
Evan	31	\$41.67
Evansville	665	\$38.08
Eveleth	3,732	\$35.50
Excelsior	2,254	\$35.53
Eyota	2,132	\$42.83
Fairfax	1,024	\$28.00
Fairmont	10,639	\$35.83
Falcon Heights	5,307	\$22.17
Faribault	23,195	\$27.12
Farmington	20,305	\$16.00
Farwell/Kensington Sanitary District	343	\$29.00
Felton	131	\$6.00

Community	Population	Mo. Residential Sewer Charge
Fergus Falls	13,258	\$28.24
Fertile	851	\$14.33
Finlayson	282	\$23.83
Fisher	437	\$35.50
Flensburg	206	\$15.00
Floodwood	519	\$25.25
Foley	2,576	\$13.30
Forada	187	\$65.00
Forest Lake	18,077	\$27.50
Foreston	643	\$35.00
Fosston	1,752	\$29.75
Fountain	404	\$70.30
Franklin	646	\$45.25
Frazee	1,398	\$20.52
Freeborn	261	\$30.00
Freeport	606	\$22.15
Fridley	27,394	\$22.00
Frost	214	\$47.50
Fulda	1,519	\$14.00
Garfield	253	\$35.00
Gary	145	\$48.75
Gaylord	2,219	\$23.33
Geneva	563	\$8.33
Georgetown	254	\$12.00
Ghent	390	\$31.00
Gibbon	749	\$17.50
Gilbert	1,881	\$54.95
Gilman	250	\$16.67
Glencoe	5,654	\$40.75
Glenville	660	\$13.33
Glenwood	2,570	\$37.70

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Glyndon	1,402	\$46.50
Golden Valley	20,314	\$20.45
Gonvick	342	\$29.75
Good Thunder	549	\$36.06
Goodhue	1,111	\$22.50
Goodridge	182	\$17.00
Goodview	4,003	\$22.08
Graceville	556	\$46.00
Granada	305	\$10.00
Grand Marais	1,136	\$58.58
Grand Meadow	985	\$26.00
Grand Rapids	10,833	\$24.06
Granite Falls	2,092	\$24.06
Grasston	157	\$30.00
Green Isle	303	\$50.35
Greenfield	2,710	\$51.88
Greenwood	638	\$21.67
Grey Eagle	435	\$29.50
Grove City	618	\$49.75
Grygla	233	\$16.00
Hackensack	386	\$24.00
Hallock	962	\$8.17
Halstad	652	\$34.83
Hamburg	610	\$34.20
Hammond	154	\$50.50
Hampton	802	\$16.00
Hancock	794	\$38.00
Hanley Falls	275	\$47.75
Hanover	2,171	\$28.48
Hanska	388	\$13.05
Hardwick	157	\$15.00

Community	Population	Mo. Residential Sewer Charge
Harmony	1,076	\$54.25
Harris	965	\$73.44
Hartland	281	\$28.33
Hastings	21,899	\$16.25
Hatfield	44	\$35.00
Hawley	1,936	\$29.75
Hayfield	1,222	\$56.25
Hayward	166	\$30.50
Hazel Run	35	\$45.00
Hector	1,149	\$39.60
Henderson	814	\$76.10
Hendricks	689	\$49.00
Hendrum	230	\$20.00
Henning	834	\$37.00
Henriette	38	\$33.50
Herman	516	\$32.33
Hermantown	9,267	\$46.00
Heron Lake	622	\$25.00
Hewitt	260	\$30.35
Hibbing	16,395	\$33.75
Hill City	503	\$31.28
Hills	704	\$32.00
Hilltop	660	\$10.23
Hinckley	1,888	\$34.30
Hitterdal	205	\$3.06
Hoffman	575	\$56.00
Hokah	420	\$48.58
Holdingsford	638	\$30.00
Holland	241	\$10.00
Hollandale	236	\$22.33
Holloway	96	\$14.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Hopkins	17,531	\$22.08
Houston	1,020	\$34.55
Howard Lake	1,506	\$70.76
Hoyt Lakes	2,017	\$26.00
Hugo	12,685	\$19.37
Hutchinson	14,185	\$38.50
Ihlen	51	\$2.78
Independence	3,472	\$56.00
International Falls	6,427	\$61.31
Inver Grove Heights	33,638	\$20.37
Iron Junction	102	\$52.00
Ironton	595	\$35.04
Isanti	5,050	\$57.44
Isle	654	\$78.92
Ivanhoe	542	\$42.00
Jackson	3,300	\$32.17
Janesville	2,106	\$20.00
Jasper	517	\$11.25
Jeffers	435	\$34.50
Jordan	5,418	\$46.11
Kandiyohi	550	\$61.45
Karlstad	827	\$10.00
Kasson	5,807	\$54.31
Keewatin	1,142	\$30.00
Kelliher	322	\$28.50
Kellogg	451	\$18.27
Kennedy	158	\$26.00
Kenneth	84	\$36.00
Kent	75	\$44.60
Kenyon	1,959	\$28.42
Kettle River	150	\$57.92

Community	Population	Mo. Residential Sewer Charge
Kiester	508	\$41.00
Kilkenny	384	\$24.35
Kimball	716	\$31.50
Kinney	153	\$21.50
La Crescent	4,867	\$15.92
Lafayette	577	\$50.02
Lake Benton	674	\$37.50
Lake Bronson	254	\$12.00
Lake City	947	\$41.53
Lake Crystal	2,540	\$42.00
Lake Elmo	7,997	\$25.00
Lake Henry	73	\$30.00
Lake Lillian	213	\$37.65
Lake Park	795	\$32.50
Lake Shore	1,243	\$33.33
Lake Wilson	220	\$11.25
Lakefield	1,641	\$37.50
Lakeville	54,951	\$19.23
Lamberton	938	\$34.25
Lancaster	286	\$25.80
Lanesboro	751	\$185.00
Laporte	193	\$35.50
Lauderdale	2,494	\$16.34
Le Center	2,431	\$34.42
Le Roy	922	\$22.50
Le Sueur	4,084	\$44.85
Lester Prairie	1,526	\$71.92
Lewiston	1,779	\$75.66
Lewisville	229	\$67.65
Lexington	2,147	\$17.75
Lilydale	818	\$17.50

Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Lindstrom	4,364	\$38.50
Lino Lakes	19,996	\$19.76
Lismore	282	\$39.30
Litchfield	6,742	\$44.89
Little Canada	9,722	\$16.67
Little Falls	8,356	\$27.75
Littlefork	656	\$14.00
Long Lake	1,951	\$23.60
Long Prairie	3,437	\$21.77
Longville	119	\$38.25
Lonsdale	3,466	\$51.00
Loretto	739	\$37.00
Lowry	321	\$30.00
Lucan	180	\$29.50
Luverne	4,690	\$41.97
Lynd	485	\$29.78
Mabel	761	\$46.00
Madelia	2,723	\$31.40
Madison	1,572	\$47.50
Madison Lake	1,103	\$60.45
Magnolia	212	\$2.42
Mahnomen	1,526	\$17.03
Mahtomedi	7,718	\$30.82
Mankato	38,725	\$27.93
Mantorville	1,175	\$45.30
Maple Grove	60,241	\$16.67
Maple Plain	1,732	\$42.98
Mapleton	2,061	\$19.79
Mapleview	163	\$21.25
Maplewood	37,572	\$19.60
Marble	701	\$34.00

Community	Population	Mo. Residential Sewer Charge
Marietta	222	\$12.50
Marine on St Croix	672	\$38.08
Marshall	13,534	\$38.32
Mayer	1,306	\$50.25
Maynard	498	\$31.50
Mazeppa	675	\$44.35
McGrath	72	\$28.00
McGregor	393	\$25.00
McIntosh	533	\$10.00
Meadowlands	117	\$21.75
Medford	1,274	\$47.75
Medina	4,794	\$23.80
Melrose	3,559	\$30.75
Menahga	1,186	\$18.40
Mendota	160	\$13.33
Mendota Heights	11,191	\$22.08
Middle River	323	\$35.00
Milaca	2,944	\$19.50
Milan	393	\$11.67
Millerville	165	\$14.17
Milroy	201	\$22.00
Minneapolis	381,833	\$20.99
Minneota	1,301	\$14.94
Minnesota City	218	\$36.00
Minnesota Lake	653	\$25.83
Minnetonka	49,766	\$25.20
Minnetonka Beach	713	\$25.00
Minnetrista	6,157	\$28.33
Montevideo	5,343	\$39.08
Montgomery	3,013	\$54.25
Monticello	12,506	\$25.45

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Montrose	2,726	\$58.15
Moorhead	37,358	\$27.45
Moose Lake	2,715	\$28.38
Mora	3,583	\$44.20
Morgan	1,023	\$64.55
Morris	5,286	\$83.33
Morristown	1,029	\$46.00
Morton	479	\$58.67
Motley	596	\$33.50
Mound	9,069	\$34.14
Mounds View	12,162	\$20.95
Mountain Iron	2,886	\$32.50
Mountain Lake	2,270	\$39.02
Murdock	237	\$14.00
Myrtle	45	\$2.00
Nashwauk	983	\$11.00
Nassau	96	\$27.58
Nevis	493	\$30.00
New Auburn	577	\$48.08
New Brighton	21,444	\$21.70
New Germany	421	\$52.00
New Hope	20,358	\$27.50
New London	1,267	\$96.90
New Munich	318	\$47.50
New Prague	7,321	\$88.33
New Richland	1,020	\$58.51
New Ulm	13,493	\$27.85
New York Mills	1,500	\$51.86
Newfolden	351	\$24.00
Newport	3,487	\$24.79
Nicollet	1,200	\$29.35

Community	Population	Mo. Residential Sewer Charge
Nielsville	182	\$36.00
Nisswa	2,261	\$45.15
North Branch	10,046	\$53.20
North Mankato	13,258	\$28.86
North St Paul	11,450	\$25.00
Northfield	18,608	\$35.38
Northome	202	\$35.75
Northrop	274	\$1.77
Norwood Young America	3,554	\$41.83
Oak Grove	7,959	\$62.00
Oak Park Heights	4,317	\$22.00
Oakdale	27,473	\$20.70
Odessa	107	\$30.00
Ogema	165	\$3.00
Ogilvie	401	\$55.78
Okabena	179	\$22.00
Oklee	465	\$17.50
Olivia	2,438	\$46.06
Onamia	965	\$40.08
Orono	7,428	\$44.68
Orr	279	\$69.37
Ortonville	1,919	\$22.17
Osakis	1,599	\$27.00
Oslo	311	\$40.00
Osseo	2,495	\$15.00
Ostrander	303	\$39.50
Otsego	13,020	\$33.92
Owatonna	25,456	\$22.58
Palisade	174	\$57.00
Park Rapids	3,742	\$17.83
Parkers Prairie	1,080	\$32.19

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Paynesville	2,340	\$18.92
Pease	133	\$51.83
Pelican Rapids	2,716	\$30.50
Pemberton	313	\$47.00
Pennock	569	\$9.60
Pequot Lakes	2,162	\$49.88
Perham	2,968	\$13.37
Perley	110	\$45.00
Peterson	224	\$47.00
Pillager	507	\$35.00
Pine City	3,186	\$37.50
Pine Island	2,533	\$36.95
Pipestone	4,304	\$45.15
Plainview	3,332	\$48.69
Plummer	266	\$18.00
Plymouth	69,963	\$15.40
Porter	184	\$15.83
Preston	1,318	\$30.14
Princeton	4,643	\$52.50
Prinsburg	432	\$53.10
Prior Lake	22,570	\$20.90
Racine	449	\$25.00
Ramsey	23,267	\$22.26
Randall	543	\$36.35
Raymond	744	\$43.40
Red Lake Falls	1,447	\$27.92
Red Wing	16,447	\$35.00
Redwood Falls	5,254	\$24.03
Remer	391	\$51.47
Renville	1,447	\$41.03
Revere	85	\$22.75

Community	Population	Mo. Residential Sewer Charge
Rice	1,126	\$17.00
Richfield	35,053	\$19.45
Richmond	1,432	\$50.15
Robbinsdale	13,947	\$26.38
Rochester	105,576	\$31.72
Rockford	3,890	\$31.95
Rockville	2,278	\$18.10
Rogers	8,122	\$16.28
Rollingstone	717	\$26.08
Roscoe	115	\$28.00
Rose Creek	470	\$23.00
Roseau	2,656	\$16.25
Rosemount	21,240	\$16.32
Roseville	33,497	\$20.42
Rothsay	259	\$40.50
Round Lake	378	\$11.00
Royalton	1,068	\$32.50
Rush City	3,057	\$26.10
Rushford	1,918	\$36.95
Rushford Village	953	\$49.00
Rushmore	277	\$33.00
Russell	351	\$16.00
Ruthton	203	\$20.83
Sabin	631	\$20.00
Sacred Heart	465	\$43.59
Sanborn	359	\$31.00
Sandstone	2,763	\$37.70
Sartell	15,175	\$27.61
Sauk Centre	4,293	\$43.53
Sauk Rapids	12,635	\$22.55
Savage	26,897	\$10.40

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Scanlon	1,022	\$57.75
Seaforth	87	\$69.00
Sebeka	748	\$27.50
Shafer	884	\$35.28
Shakopee	36,110	\$15.33
Shelly	220	\$35.00
Sherburn	996	\$35.17
Shoreview	25,023	\$22.49
Shorewood	7,307	\$24.28
Silver Bay	2,081	\$36.94
Silver Creek	2,300	\$44.00
Silver Lake	757	\$25.25
Slayton	2,162	\$20.00
Sleepy Eye	3,597	\$19.88
South Haven	215	\$52.90
South St Paul	20,283	\$24.34
Spicer	1,263	\$72.45
Spring Lake Park	6,318	\$19.68
Spring Park	1,538	\$31.25
Spring Valley	2,475	\$36.94
Springfield	2,060	\$24.17
St Anthony	8,226	\$19.95
St Bonifacius	2,176	\$22.25
St Charles	3,706	\$46.23
St Clair	744	\$72.00
St Cloud	65,986	\$19.57
St Francis	7,026	\$34.75
St Hilaire	232	\$50.42
St James	4,573	\$38.58
St Joseph	6,383	\$23.25
St Leo	156	\$21.00

Community	Population	Mo. Residential Sewer Charge
St Louis Park	45,043	\$17.93
St Martin	312	\$12.00
St Michael	15,896	\$17.70
St Paul	283,991	\$27.50
St Paul Park	5,283	\$21.15
St Peter	11,196	\$70.80
Stacy	1,471	\$23.11
Staples	3,103	\$20.50
Starbuck	1,234	\$41.00
Steen	205	\$20.00
Stephen	720	\$32.25
Stewart	642	\$13.30
Stewartville	5,902	\$23.45
Stillwater	18,058	\$22.00
Storden	238	\$35.00
Sunburg	93	\$35.40
Swanville	329	\$32.50
Tamarack	67	\$45.00
Taunton	159	\$22.50
Taylor's Falls	929	\$23.83
Thief River Falls	8,563	\$10.25
Thomson	127	\$42.50
Tonka Bay	1,378	\$43.50
Tower	483	\$25.75
Tracy	2,056	\$22.15
Trimont	619	\$57.80
Truman	1,159	\$23.89
Twin Lakes	187	\$11.67
Twin Valley	833	\$19.00
Two Harbors	3,729	\$41.63
Tyler	1,084	\$15.75

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge
Ulen	573	\$37.40
Underwood	385	\$45.00
Upsala	529	\$24.30
Urbank	66	\$46.00
Utica	339	\$11.67
Vadnais Heights	12,313	\$20.83
Vergas	312	\$24.50
Vermillion	411	\$29.00
Verndale	470	\$39.50
Vernon Center	307	\$56.33
Vesta	359	\$28.83
Victoria	7,143	\$20.80
Viking	82	\$60.00
Villard	290	\$5.00
Virginia	8,742	\$38.62
Wabasha	2,532	\$55.43
Wabasso	613	\$39.40
Waconia	10,429	\$33.35
Wadena	4,179	\$29.71
Wahkon	341	\$28.17
Waite Park	6,729	\$32.95
Waldorf	175	\$41.58
Walker	926	\$40.50
Walnut Grove	812	\$46.95
Walters	110	\$38.50
Waltham	144	\$30.00
Wanamingo	1,013	\$32.50
Wanda	72	\$20.00
Warba	164	\$40.00
Warren	1,900	\$40.00
Warroad	2,039	\$34.75

Community	Population	Mo. Residential Sewer Charge
Waseca	9,405	\$41.46
Watertown	4,140	\$36.82
Waterville	1,808	\$19.70
Watkins	978	\$45.50
Watson	268	\$102.05
Waubun	435	\$14.58
Waverly	1,127	\$77.30
Wayzata	3,717	\$28.66
Welcome	811	\$35.00
Wells	2,345	\$37.00
Wendell	159	\$16.00
West Concord	752	\$58.00
West St Paul	19,661	\$25.67
Westbrook	625	\$21.00
Wheaton	1,531	\$46.79
White Bear Lake	23,797	\$19.00
Williams	199	\$57.00
Willmar	19,459	\$51.50
Willow River	401	\$30.00
Wilmont	280	\$23.75
Windom	4,626	\$30.77
Winger	207	\$13.08
Winnebago	1,514	\$36.50
Winona	27,671	\$16.42
Winsted	2,360	\$48.82
Winton	152	\$41.83
Wolf Lake	69	\$45.00
Wolverton	98	\$40.30
Wood Lake	401	\$36.40
Woodbury	60,737	\$19.19
Woodland	420	\$32.63

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

Alphabetical by Community

Community	Population	Mo. Residential Sewer Charge	Community	Population	Mo. Residential Sewer Charge
Worthington	12,531	\$29.44			
Wykoff	560	\$54.14			
Wyoming	7,730	\$29.52			
Zimmerman	5,091	\$31.58			
Zumbro Falls	166	\$45.00			
Zumbrota	3,209	\$21.55			

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Lanesboro	751.00	\$185.00
Clear Lake	546.00	\$116.25
Watson	268.00	\$102.05
New London	1,267.00	\$96.90
New Prague	7,321.00	\$88.33
Morris	5,286.00	\$83.33
Annandale	3,238.00	\$83.00
Blomkest/Svea Sewer Board	177.00	\$82.75
Belle Plaine	6,501.00	\$79.96
Isle	654.00	\$78.92
Waverly	1,127.00	\$77.30
Henderson	814.00	\$76.10
Lewiston	1,779.00	\$75.66
Delano	5,401.00	\$74.17
Harris	965.00	\$73.44
Spicer	1,263.00	\$72.45
St Clair	744.00	\$72.00
Lester Prairie	1,526.00	\$71.92
Clearwater	1,588.00	\$71.55
St Peter	11,196.00	\$70.80
Howard Lake	1,506.00	\$70.76
Fountain	404.00	\$70.30
Orr	279.00	\$69.37
Seaforth	87.00	\$69.00
Dundas	1,337.00	\$68.25
Lewisville	229.00	\$67.65
Chatfield	1,679.00	\$66.37
Forada	187.00	\$65.00
Bigelow	217.00	\$64.58
Morgan	1,023.00	\$64.55

Community	Population	Mo. Residential Sewer Charge
Ashby	472.00	\$62.00
Oak Grove	7,959.00	\$62.00
Kandiyohi	550.00	\$61.45
International Falls	6,427.00	\$61.31
Cook	780.00	\$61.25
Madison Lake	1,103.00	\$60.45
Viking	82.00	\$60.00
Ely	3,502.00	\$59.99
Morton	479.00	\$58.67
Grand Marais	1,136.00	\$58.58
New Richland	1,020.00	\$58.51
Bock	82.00	\$58.17
Montrose	2,726.00	\$58.15
West Concord	752.00	\$58.00
Kettle River	150.00	\$57.92
Trimont	619.00	\$57.80
Scanlon	1,022.00	\$57.75
Isanti	5,050.00	\$57.44
Palisade	174.00	\$57.00
Williams	199.00	\$57.00
Vernon Center	307.00	\$56.33
Hayfield	1,222.00	\$56.25
Bertha	552.00	\$56.00
Hoffman	575.00	\$56.00
Independence	3,472.00	\$56.00
Ogilvie	401.00	\$55.78
Wabasha	2,532.00	\$55.43
Gilbert	1,881.00	\$54.95
Kasson	5,807.00	\$54.31
Harmony	1,076.00	\$54.25

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Montgomery	3,013.00	\$54.25
Wykoff	560.00	\$54.14
North Branch	10,046.00	\$53.20
Prinsburg	432.00	\$53.10
South Haven	215.00	\$52.90
Princeton	4,643.00	\$52.50
Iron Junction	102.00	\$52.00
New Germany	421.00	\$52.00
Greenfield	2,710.00	\$51.88
New York Mills	1,500.00	\$51.86
Pease	133.00	\$51.83
Dassel	1,488.00	\$51.50
Willmar	19,459.00	\$51.50
Remer	391.00	\$51.47
Lonsdale	3,466.00	\$51.00
Hammond	154.00	\$50.50
St Hilaire	232.00	\$50.42
Green Isle	303.00	\$50.35
Big Lake	9,867.00	\$50.33
Mayer	1,306.00	\$50.25
Richmond	1,432.00	\$50.15
Lafayette	577.00	\$50.02
Dovray	58.00	\$50.00
Pequot Lakes	2,162.00	\$49.88
Grove City	618.00	\$49.75
Hendricks	689.00	\$49.00
Rushford Village	953.00	\$49.00
Winsted	2,360.00	\$48.82
Gary	145.00	\$48.75
Plainview	3,332.00	\$48.69

Community	Population	Mo. Residential Sewer Charge
Comstock	139.00	\$48.67
Carlton	833.00	\$48.60
Hokah	420.00	\$48.58
Byron	4,799.00	\$48.15
New Auburn	577.00	\$48.08
Cokato	2,749.00	\$47.80
Hanley Falls	275.00	\$47.75
Medford	1,274.00	\$47.75
Frost	214.00	\$47.50
Madison	1,572.00	\$47.50
New Munich	318.00	\$47.50
Pemberton	313.00	\$47.00
Peterson	224.00	\$47.00
Walnut Grove	812.00	\$46.95
Wheaton	1,531.00	\$46.79
Glyndon	1,402.00	\$46.50
St Charles	3,706.00	\$46.23
Jordan	5,418.00	\$46.11
Olivia	2,438.00	\$46.06
Barnesville	2,524.00	\$46.00
Clara City	1,198.00	\$46.00
Graceville	556.00	\$46.00
Hermantown	9,267.00	\$46.00
Mabel	761.00	\$46.00
Morristown	1,029.00	\$46.00
Urbank	66.00	\$46.00
Watkins	978.00	\$45.50
Claremont	596.00	\$45.40
Mantorville	1,175.00	\$45.30
Franklin	646.00	\$45.25

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Nisswa	2,261.00	\$45.15
Pipestone	4,304.00	\$45.15
Emily	758.00	\$45.02
Hazel Run	35.00	\$45.00
Perley	110.00	\$45.00
Tamarack	67.00	\$45.00
Underwood	385.00	\$45.00
Wolf Lake	69.00	\$45.00
Zumbro Falls	166.00	\$45.00
Litchfield	6,742.00	\$44.89
Le Sueur	4,084.00	\$44.85
Orono	7,428.00	\$44.68
Kent	75.00	\$44.60
Chisholm	4,962.00	\$44.50
Cohasset	2,675.00	\$44.50
Cold Spring	3,960.00	\$44.50
Clarissa	765.00	\$44.42
Mazeppa	675.00	\$44.35
Mora	3,583.00	\$44.20
Silver Creek	2,300.00	\$44.00
Sacred Heart	465.00	\$43.59
Sauk Centre	4,293.00	\$43.53
Tonka Bay	1,378.00	\$43.50
Raymond	744.00	\$43.40
Arlington	2,569.00	\$43.30
Cologne	1,489.00	\$43.30
Braham	1,754.00	\$43.08
Maple Plain	1,732.00	\$42.98
Eyota	2,132.00	\$42.83
Duluth	86,177.00	\$42.69

Community	Population	Mo. Residential Sewer Charge
Thomson	127.00	\$42.50
Big Falls	199.00	\$42.00
Climax	256.00	\$42.00
Cottonwood	992.00	\$42.00
Ivanhoe	542.00	\$42.00
Lake Crystal	2,540.00	\$42.00
Luverne	4,690.00	\$41.97
Blue Earth	3,368.00	\$41.85
Atwater	1,012.00	\$41.83
Norwood Young America	3,554.00	\$41.83
Winton	152.00	\$41.83
Clinton	426.00	\$41.67
Eagle Lake	2,384.00	\$41.67
Evan	31.00	\$41.67
Two Harbors	3,729.00	\$41.63
Battle Lake	813.00	\$41.60
Brownton	709.00	\$41.58
Waldorf	175.00	\$41.58
Lake City	947.00	\$41.53
Waseca	9,405.00	\$41.46
Brandon	440.00	\$41.25
Renville	1,447.00	\$41.03
Audubon	561.00	\$41.00
Kiester	508.00	\$41.00
Starbuck	1,234.00	\$41.00
Glencoe	5,654.00	\$40.75
Benson	3,165.00	\$40.67
Elmore	657.00	\$40.67
Cannon Falls	4,073.00	\$40.63
Courtland	608.00	\$40.50

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Rothsay	259.00	\$40.50
Walker	926.00	\$40.50
Wolverton	98.00	\$40.30
Onamia	965.00	\$40.08
Elko New Market	3,845.00	\$40.02
Boyd	209.00	\$40.00
Buckman	213.00	\$40.00
Chandler	237.00	\$40.00
Doran	24.00	\$40.00
Oslo	311.00	\$40.00
Warba	164.00	\$40.00
Warren	1,900.00	\$40.00
Hector	1,149.00	\$39.60
Bemidji	13,354.00	\$39.58
Ostrander	303.00	\$39.50
Verndale	470.00	\$39.50
Wabasso	613.00	\$39.40
Lismore	282.00	\$39.30
Appleton	2,017.00	\$39.27
Montevideo	5,343.00	\$39.08
Mountain Lake	2,270.00	\$39.02
Barnum	627.00	\$38.75
Virginia	8,742.00	\$38.62
Deerwood	404.00	\$38.58
St James	4,573.00	\$38.58
Hutchinson	14,185.00	\$38.50
Lindstrom	4,364.00	\$38.50
Walters	110.00	\$38.50
Marshall	13,534.00	\$38.32
Longville	119.00	\$38.25

Community	Population	Mo. Residential Sewer Charge
Evansville	665.00	\$38.08
Marine on St Croix	672.00	\$38.08
Darfur	67.00	\$38.00
Hancock	794.00	\$38.00
Calumet	367.00	\$37.83
Aurora	1,682.00	\$37.76
Bigfork	473.00	\$37.70
Glenwood	2,570.00	\$37.70
Sandstone	2,763.00	\$37.70
Bingham Lake	155.00	\$37.65
Lake Lillian	213.00	\$37.65
Lake Benton	674.00	\$37.50
Lakefield	1,641.00	\$37.50
Pine City	3,186.00	\$37.50
Ulen	573.00	\$37.40
Brainerd	13,715.00	\$37.25
Backus	380.00	\$37.00
Henning	834.00	\$37.00
Loretto	739.00	\$37.00
Wells	2,345.00	\$37.00
Pine Island	2,533.00	\$36.95
Rushford	1,918.00	\$36.95
Silver Bay	2,081.00	\$36.94
Spring Valley	2,475.00	\$36.94
Crosby	2,186.00	\$36.83
Watertown	4,140.00	\$36.82
Bovey	843.00	\$36.50
Winnebago	1,514.00	\$36.50
Wood Lake	401.00	\$36.40
Randall	543.00	\$36.35

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Eden Valley	534.00	\$36.25
Good Thunder	549.00	\$36.06
Amboy	577.00	\$36.00
Brownsville	638.00	\$36.00
Crosslake	1,979.00	\$36.00
Elkton	128.00	\$36.00
Kenneth	84.00	\$36.00
Minnesota City	218.00	\$36.00
Nielsville	182.00	\$36.00
Fairmont	10,639.00	\$35.83
Northome	202.00	\$35.75
Dodge Center	2,640.00	\$35.62
Excelsior	2,254.00	\$35.53
Babbitt	1,300.00	\$35.50
Eveleth	3,732.00	\$35.50
Fisher	437.00	\$35.50
Laporte	193.00	\$35.50
Buffalo	15,127.00	\$35.45
Sunburg	93.00	\$35.40
Northfield	18,608.00	\$35.38
Bird Island	966.00	\$35.30
Shafer	884.00	\$35.28
Echo	309.00	\$35.20
Sherburn	996.00	\$35.17
Ironton	595.00	\$35.04
Bethel	470.00	\$35.00
Blooming Prairie	1,919.00	\$35.00
Foreston	643.00	\$35.00
Garfield	253.00	\$35.00
Hatfield	44.00	\$35.00

Community	Population	Mo. Residential Sewer Charge
Middle River	323.00	\$35.00
Pillager	507.00	\$35.00
Red Wing	16,447.00	\$35.00
Shelly	220.00	\$35.00
Storden	238.00	\$35.00
Welcome	811.00	\$35.00
Avon	1,264.00	\$34.95
Halstad	652.00	\$34.83
St Francis	7,026.00	\$34.75
Warroad	2,039.00	\$34.75
Dilworth	3,925.00	\$34.62
Houston	1,020.00	\$34.55
Jeffers	435.00	\$34.50
Le Center	2,431.00	\$34.42
East Gull Lake	1,088.00	\$34.33
Hinckley	1,888.00	\$34.30
Lamberton	938.00	\$34.25
Hamburg	610.00	\$34.20
Mound	9,069.00	\$34.14
Beaver Bay	110.00	\$34.11
Bricelyn	325.00	\$34.08
Elbow Lake	1,274.00	\$34.00
Marble	701.00	\$34.00
Otsego	13,020.00	\$33.92
Hibbing	16,395.00	\$33.75
Cobden	24.00	\$33.70
Henriette	38.00	\$33.50
Motley	596.00	\$33.50
Waconia	10,429.00	\$33.35
Lake Shore	1,243.00	\$33.33

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Browns Valley	580.00	\$33.30
Eagle Bend	497.00	\$33.00
Rushmore	277.00	\$33.00
Waite Park	6,729.00	\$32.95
Woodland	420.00	\$32.63
Burnsville	60,699.00	\$32.60
Lake Park	795.00	\$32.50
Mountain Iron	2,886.00	\$32.50
Royalton	1,068.00	\$32.50
Swanville	329.00	\$32.50
Wanamingo	1,013.00	\$32.50
Herman	516.00	\$32.33
Detroit Lakes	8,507.00	\$32.29
Stephen	720.00	\$32.25
Parkers Prairie	1,080.00	\$32.19
Jackson	3,300.00	\$32.17
Hills	704.00	\$32.00
Rockford	3,890.00	\$31.95
Rochester	105,576.00	\$31.72
Dover	744.00	\$31.67
Barrett	345.00	\$31.58
Zimmerman	5,091.00	\$31.58
Becker	4,436.00	\$31.50
Kimball	716.00	\$31.50
Maynard	498.00	\$31.50
Madelia	2,723.00	\$31.40
Hill City	503.00	\$31.28
Cromwell	138.00	\$31.25
Spring Park	1,538.00	\$31.25
Baxter	7,471.00	\$31.22

Community	Population	Mo. Residential Sewer Charge
Browerville	715.00	\$31.13
Ghent	390.00	\$31.00
Sanborn	359.00	\$31.00
Caledonia	2,880.00	\$30.83
Mahtomedi	7,718.00	\$30.82
Windom	4,626.00	\$30.77
Melrose	3,559.00	\$30.75
Hayward	166.00	\$30.50
Pelican Rapids	2,716.00	\$30.50
Dawson	1,424.00	\$30.44
Hewitt	260.00	\$30.35
Elysian	422.00	\$30.25
Preston	1,318.00	\$30.14
Deer Creek	257.00	\$30.00
Dumont	65.00	\$30.00
Freeborn	261.00	\$30.00
Grasston	157.00	\$30.00
Holdingford	638.00	\$30.00
Keewatin	1,142.00	\$30.00
Lake Henry	73.00	\$30.00
Lowry	321.00	\$30.00
Nevis	493.00	\$30.00
Odessa	107.00	\$30.00
Waltham	144.00	\$30.00
Willow River	401.00	\$30.00
Lynd	485.00	\$29.78
Fosston	1,752.00	\$29.75
Gonvick	342.00	\$29.75
Hawley	1,936.00	\$29.75
Wadena	4,179.00	\$29.71

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Wyoming	7,730.00	\$29.52
Belgrade	793.00	\$29.50
Grey Eagle	435.00	\$29.50
Lucan	180.00	\$29.50
Albert Lea	18,046.00	\$29.47
Worthington	12,531.00	\$29.44
Nicollet	1,200.00	\$29.35
Easton	181.00	\$29.33
Bagley	1,416.00	\$29.17
Arden Hills	9,529.00	\$29.09
Farwell/Kensington Sanitary District	343.00	\$29.00
Vermillion	411.00	\$29.00
Ceylon	361.00	\$28.95
Clarkfield	702.00	\$28.90
North Mankato	13,258.00	\$28.86
Vesta	359.00	\$28.83
Wayzata	3,717.00	\$28.66
Kelliher	322.00	\$28.50
Hanover	2,171.00	\$28.48
Kenyon	1,959.00	\$28.42
Moose Lake	2,715.00	\$28.38
Deephaven	3,658.00	\$28.33
Hartland	281.00	\$28.33
Minnetrista	6,157.00	\$28.33
Circle Pines	4,921.00	\$28.25
Fergus Falls	13,258.00	\$28.24
Wahkon	341.00	\$28.17
Carver	3,519.00	\$28.10
Fairfax	1,024.00	\$28.00
McGrath	72.00	\$28.00

Community	Population	Mo. Residential Sewer Charge
Roscoe	115.00	\$28.00
Mankato	38,725.00	\$27.93
Red Lake Falls	1,447.00	\$27.92
New Ulm	13,493.00	\$27.85
Baudette	1,237.00	\$27.75
Little Falls	8,356.00	\$27.75
Sartell	15,175.00	\$27.61
Aitkin	2,636.00	\$27.59
Nassau	96.00	\$27.58
Forest Lake	18,077.00	\$27.50
New Hope	20,358.00	\$27.50
Sebeka	748.00	\$27.50
St Paul	283,991.00	\$27.50
Moorhead	37,358.00	\$27.45
Faribault	23,195.00	\$27.12
Darwin	424.00	\$27.08
Center City	581.00	\$27.00
Osakis	1,599.00	\$27.00
Chokio	370.00	\$26.92
Butterfield	514.00	\$26.50
Robbinsdale	13,947.00	\$26.38
Champlin	22,937.00	\$26.21
Bayport	3,465.00	\$26.20
Rush City	3,057.00	\$26.10
Rollingstone	717.00	\$26.08
Adams	800.00	\$26.00
Belview	400.00	\$26.00
Grand Meadow	985.00	\$26.00
Hoyt Lakes	2,017.00	\$26.00
Kennedy	158.00	\$26.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Birchwood	870.00	\$25.83
Comfrey	471.00	\$25.83
Minnesota Lake	653.00	\$25.83
Lancaster	286.00	\$25.80
Cleveland	672.00	\$25.75
Tower	483.00	\$25.75
West St Paul	19,661.00	\$25.67
Monticello	12,506.00	\$25.45
Deer River	1,032.00	\$25.25
Floodwood	519.00	\$25.25
Silver Lake	757.00	\$25.25
Minnetonka	49,766.00	\$25.20
Balaton	676.00	\$25.00
Carlos	592.00	\$25.00
Clements	156.00	\$25.00
Coleraine	1,917.00	\$25.00
Coon Rapids	61,876.00	\$25.00
Dalton	312.00	\$25.00
Dent	199.00	\$25.00
Heron Lake	622.00	\$25.00
Lake Elmo	7,997.00	\$25.00
McGregor	393.00	\$25.00
Minnetonka Beach	713.00	\$25.00
North St Paul	11,450.00	\$25.00
Racine	449.00	\$25.00
Brooklyn Center	29,949.00	\$24.90
Cambridge	8,009.00	\$24.89
Newport	3,487.00	\$24.79
Vergas	312.00	\$24.50
Kilkenny	384.00	\$24.35

Community	Population	Mo. Residential Sewer Charge
South St Paul	20,283.00	\$24.34
Upsala	529.00	\$24.30
Shorewood	7,307.00	\$24.28
Springfield	2,060.00	\$24.17
Cloquet	12,076.00	\$24.10
Granite Falls	2,092.00	\$24.06
Grand Rapids	10,833.00	\$24.06
Redwood Falls	5,254.00	\$24.03
Ellsworth	470.00	\$24.00
Hackensack	386.00	\$24.00
Newfolden	351.00	\$24.00
Truman	1,159.00	\$23.89
Finlayson	282.00	\$23.83
Taylor's Falls	929.00	\$23.83
Medina	4,794.00	\$23.80
Wilmont	280.00	\$23.75
Long Lake	1,951.00	\$23.60
Argyle	497.00	\$23.50
Askov	417.00	\$23.50
Bellingham	229.00	\$23.50
Breckenridge	3,401.00	\$23.50
Stewartville	5,902.00	\$23.45
Gaylord	2,219.00	\$23.33
Cass Lake	676.00	\$23.25
St Joseph	6,383.00	\$23.25
Biwabik	1,150.00	\$23.23
Stacy	1,471.00	\$23.11
Canby	1,924.00	\$23.00
Eitzen	243.00	\$23.00
Rose Creek	470.00	\$23.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Centerville	3,762.00	\$22.80
Revere	85.00	\$22.75
Breezy Point	1,955.00	\$22.60
Owatonna	25,456.00	\$22.58
Sauk Rapids	12,635.00	\$22.55
Goodhue	1,111.00	\$22.50
Le Roy	922.00	\$22.50
Taunton	159.00	\$22.50
Shoreview	25,023.00	\$22.49
Hollandale	236.00	\$22.33
Ramsey	23,267.00	\$22.26
St Bonifacius	2,176.00	\$22.25
Falcon Heights	5,307.00	\$22.17
Ortonville	1,919.00	\$22.17
Freeport	606.00	\$22.15
Tracy	2,056.00	\$22.15
Goodview	4,003.00	\$22.08
Hopkins	17,531.00	\$22.08
Mendota Heights	11,191.00	\$22.08
Clearbrook	600.00	\$22.00
Fridley	27,394.00	\$22.00
Milroy	201.00	\$22.00
Oak Park Heights	4,317.00	\$22.00
Okabena	179.00	\$22.00
Stillwater	18,058.00	\$22.00
Long Prairie	3,437.00	\$21.77
Meadowlands	117.00	\$21.75
New Brighton	21,444.00	\$21.70
Altura	451.00	\$21.67
Greenwood	638.00	\$21.67

Community	Population	Mo. Residential Sewer Charge
Austin	24,559.00	\$21.62
Zumbrota	3,209.00	\$21.55
Kinney	153.00	\$21.50
Anoka	17,357.00	\$21.38
East Grand Forks	8,458.00	\$21.29
Mapleview	163.00	\$21.25
St Paul Park	5,283.00	\$21.15
Blackduck	783.00	\$21.00
Elk River	22,790.00	\$21.00
Erskine	494.00	\$21.00
St Leo	156.00	\$21.00
Westbrook	625.00	\$21.00
Minneapolis	381,833.00	\$20.99
Mounds View	12,162.00	\$20.95
Prior Lake	22,570.00	\$20.90
Ruthton	203.00	\$20.83
Vadnais Heights	12,313.00	\$20.83
Victoria	7,143.00	\$20.80
Oakdale	27,473.00	\$20.70
Frazee	1,398.00	\$20.52
Staples	3,103.00	\$20.50
Golden Valley	20,314.00	\$20.45
Roseville	33,497.00	\$20.42
Inver Grove Heights	33,638.00	\$20.37
Chanhassen	23,000.00	\$20.27
Cosmos	550.00	\$20.08
Alden	665.00	\$20.00
Brownsdale	696.00	\$20.00
Hendrum	230.00	\$20.00
Janesville	2,106.00	\$20.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Sabin	631.00	\$20.00
Slayton	2,162.00	\$20.00
Steen	205.00	\$20.00
Wanda	72.00	\$20.00
St Anthony	8,226.00	\$19.95
Sleepy Eye	3,597.00	\$19.88
Andover	30,371.00	\$19.79
Mapleton	2,061.00	\$19.79
Lino Lakes	19,996.00	\$19.76
Waterville	1,808.00	\$19.70
Spring Lake Park	6,318.00	\$19.68
Maplewood	37,572.00	\$19.60
St Cloud	65,986.00	\$19.57
Dennison	137.00	\$19.53
Adrian	1,158.00	\$19.50
Milaca	2,944.00	\$19.50
Richfield	35,053.00	\$19.45
Hugo	12,685.00	\$19.37
Callaway	231.00	\$19.25
Lakeville	54,951.00	\$19.23
Woodbury	60,737.00	\$19.19
Apple Valley	49,020.00	\$19.04
Twin Valley	833.00	\$19.00
White Bear Lake	23,797.00	\$19.00
Paynesville	2,340.00	\$18.92
Danvers	133.00	\$18.75
Albertville	6,790.00	\$18.71
Menahga	1,186.00	\$18.40
Kellogg	451.00	\$18.27
Chisago City	4,919.00	\$18.22

Community	Population	Mo. Residential Sewer Charge
Edina	47,790.00	\$18.19
Rockville	2,278.00	\$18.10
Chaska	23,429.00	\$18.05
Badger	388.00	\$18.00
Plummer	266.00	\$18.00
Columbia Heights	19,532.00	\$17.94
St Louis Park	45,043.00	\$17.93
Park Rapids	3,742.00	\$17.83
Lexington	2,147.00	\$17.75
Eden Prairie	60,024.00	\$17.72
St Michael	15,896.00	\$17.70
Gibbon	749.00	\$17.50
Lilydale	818.00	\$17.50
Oklee	465.00	\$17.50
Cyrus	380.00	\$17.33
Mahnomen	1,526.00	\$17.03
Goodridge	182.00	\$17.00
Rice	1,126.00	\$17.00
Buffalo Lake	786.00	\$16.93
Albany	2,501.00	\$16.67
Crystal	22,154.00	\$16.67
Gilman	250.00	\$16.67
Little Canada	9,722.00	\$16.67
Maple Grove	60,241.00	\$16.67
Cottage Grove	34,394.00	\$16.65
Ada	1,666.00	\$16.64
Eagan	64,535.00	\$16.55
Bloomington	82,962.00	\$16.50
Brewster	532.00	\$16.50
Winona	27,671.00	\$16.42

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
East Bethel	11,621.00	\$16.41
Lauderdale	2,494.00	\$16.34
Rosemount	21,240.00	\$16.32
Rogers	8,122.00	\$16.28
Hastings	21,899.00	\$16.25
Roseau	2,656.00	\$16.25
Farmington	20,305.00	\$16.00
Grygla	233.00	\$16.00
Hampton	802.00	\$16.00
Russell	351.00	\$16.00
Wendell	159.00	\$16.00
La Crescent	4,867.00	\$15.92
Porter	184.00	\$15.83
Tyler	1,084.00	\$15.75
Brooklyn Park	74,743.00	\$15.60
Plymouth	69,963.00	\$15.40
Shakopee	36,110.00	\$15.33
Beardsley	253.00	\$15.00
Bluffton	161.00	\$15.00
Clarks Grove	603.00	\$15.00
Edgerton	1,277.00	\$15.00
Flensburg	206.00	\$15.00
Hardwick	157.00	\$15.00
Osseo	2,495.00	\$15.00
Minneota	1,301.00	\$14.94
Blaine	56,261.00	\$14.90
Waubun	435.00	\$14.58
Fertile	851.00	\$14.33
Millerville	165.00	\$14.17
Fulda	1,519.00	\$14.00

Community	Population	Mo. Residential Sewer Charge
Holloway	96.00	\$14.00
Littlefork	656.00	\$14.00
Murdock	237.00	\$14.00
Dayton	4,622.00	\$13.75
Currie	207.00	\$13.50
Perham	2,968.00	\$13.37
Glenville	660.00	\$13.33
Mendota	160.00	\$13.33
Foley	2,576.00	\$13.30
Stewart	642.00	\$13.30
Winger	207.00	\$13.08
Hanska	388.00	\$13.05
Bejou	107.00	\$13.00
Donnelly	272.00	\$13.00
Brooten	753.00	\$12.75
Elgin	1,320.00	\$12.50
Marietta	222.00	\$12.50
Ellendale	654.00	\$12.00
Georgetown	254.00	\$12.00
Lake Bronson	254.00	\$12.00
St Martin	312.00	\$12.00
Danube	413.00	\$11.68
Milan	393.00	\$11.67
Twin Lakes	187.00	\$11.67
Utica	339.00	\$11.67
Crookston	7,887.00	\$11.25
Jasper	517.00	\$11.25
Lake Wilson	220.00	\$11.25
Nashwauk	983.00	\$11.00
Round Lake	378.00	\$11.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Emmons	347.00	\$10.50
Savage	26,897.00	\$10.40
Thief River Falls	8,563.00	\$10.25
Hilltop	660.00	\$10.23
Elizabeth	199.00	\$10.00
Granada	305.00	\$10.00
Holland	241.00	\$10.00
Karlstad	827.00	\$10.00
McIntosh	533.00	\$10.00
Pennock	569.00	\$9.60
Geneva	563.00	\$8.33
Hallock	962.00	\$8.17
Campbell	213.00	\$8.00
Cedar Mills	70.00	\$6.17
Felton	131.00	\$6.00
Villard	290.00	\$5.00
Effie	136.00	\$4.58
Conger	148.00	\$3.92
Hitterdal	205.00	\$3.06
Ogema	165.00	\$3.00
Ihlen	51.00	\$2.78
Beaver Creek	238.00	\$2.50
Magnolia	212.00	\$2.42
Alvarado	348.00	\$2.38
Akeley	378.00	\$2.10
Myrtle	45.00	\$2.00
Northrop	274.00	\$1.77
Correll	41.00	\$1.67
Ada	1,666	\$16.64
Adams	800	\$26.00

Community	Population	Mo. Residential Sewer Charge
Adrian	1,158	\$19.50
Aitkin	2,636	\$27.59
Akeley	378	\$2.10
Albany	2,501	\$16.67
Albert Lea	18,046	\$29.47
Albertville	6,790	\$18.71
Alden	665	\$20.00
Altura	451	\$21.67
Alvarado	348	\$2.38
Amboy	577	\$36.00
Andover	30,371	\$19.79
Annandale	3,238	\$83.00
Anoka	17,357	\$21.38
Apple Valley	49,020	\$19.04
Appleton	2,017	\$39.27
Arden Hills	9,529	\$29.09
Argyle	497	\$23.50
Arlington	2,569	\$43.30
Ashby	472	\$62.00
Askov	417	\$23.50
Atwater	1,012	\$41.83
Audubon	561	\$41.00
Aurora	1,682	\$37.76
Austin	24,559	\$21.62
Avon	1,264	\$34.95
Babbitt	1,300	\$35.50
Backus	380	\$37.00
Badger	388	\$18.00
Bagley	1,416	\$29.17
Balaton	676	\$25.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Barnesville	2,524	\$46.00
Barnum	627	\$38.75
Barrett	345	\$31.58
Battle Lake	813	\$41.60
Baudette	1,237	\$27.75
Baxter	7,471	\$31.22
Bayport	3,465	\$26.20
Beardsley	253	\$15.00
Beaver Bay	110	\$34.11
Beaver Creek	238	\$2.50
Becker	4,436	\$31.50
Bejou	107	\$13.00
Belgrade	793	\$29.50
Belle Plaine	6,501	\$79.96
Bellingham	229	\$23.50
Belview	400	\$26.00
Bemidji	13,354	\$39.58
Benson	3,165	\$40.67
Bertha	552	\$56.00
Bethel	470	\$35.00
Big Falls	199	\$42.00
Big Lake	9,867	\$50.33
Bigelow	217	\$64.58
Bigfork	473	\$37.70
Bingham Lake	155	\$37.65
Birchwood	870	\$25.83
Bird Island	966	\$35.30
Biwabik	1,150	\$23.23
Blackduck	783	\$21.00
Blaine	56,261	\$14.90

Community	Population	Mo. Residential Sewer Charge
Blomkest/Svea Sewer Board	177	\$82.75
Blooming Prairie	1,919	\$35.00
Bloomington	82,962	\$16.50
Blue Earth	3,368	\$41.85
Bluffton	161	\$15.00
Bock	82	\$58.17
Bovey	843	\$36.50
Boyd	209	\$40.00
Braham	1,754	\$43.08
Brainerd	13,715	\$37.25
Brandon	440	\$41.25
Breckenridge	3,401	\$23.50
Breezy Point	1,955	\$22.60
Brewster	532	\$16.50
Bricelyn	325	\$34.08
Brooklyn Center	29,949	\$24.90
Brooklyn Park	74,743	\$15.60
Brooten	753	\$12.75
Browerville	715	\$31.13
Browns Valley	580	\$33.30
Brownsdale	696	\$20.00
Brownsville	638	\$36.00
Brownton	709	\$41.58
Buckman	213	\$40.00
Buffalo	15,127	\$35.45
Buffalo Lake	786	\$16.93
Burnsville	60,699	\$32.60
Butterfield	514	\$26.50
Byron	4,799	\$48.15
Caledonia	2,880	\$30.83

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Callaway	231	\$19.25
Calumet	367	\$37.83
Cambridge	8,009	\$24.89
Campbell	213	\$8.00
Canby	1,924	\$23.00
Cannon Falls	4,073	\$40.63
Carlos	592	\$25.00
Carlton	833	\$48.60
Carver	3,519	\$28.10
Cass Lake	676	\$23.25
Cedar Mills	70	\$6.17
Center City	581	\$27.00
Centerville	3,762	\$22.80
Ceylon	361	\$28.95
Champlin	22,937	\$26.21
Chandler	237	\$40.00
Chanhassen	23,000	\$20.27
Chaska	23,429	\$18.05
Chatfield	1,679	\$66.37
Chisago City	4,919	\$18.22
Chisholm	4,962	\$44.50
Chokio	370	\$26.92
Circle Pines	4,921	\$28.25
Clara City	1,198	\$46.00
Claremont	596	\$45.40
Clarissa	765	\$44.42
Clarkfield	702	\$28.90
Clarks Grove	603	\$15.00
Clear Lake	546	\$116.25
Clearbrook	600	\$22.00

Community	Population	Mo. Residential Sewer Charge
Clearwater	1,588	\$71.55
Clements	156	\$25.00
Cleveland	672	\$25.75
Climax	256	\$42.00
Clinton	426	\$41.67
Cloquet	12,076	\$24.10
Cobden	24	\$33.70
Cohasset	2,675	\$44.50
Cokato	2,749	\$47.80
Cold Spring	3,960	\$44.50
Coleraine	1,917	\$25.00
Cologne	1,489	\$43.30
Columbia Heights	19,532	\$17.94
Comfrey	471	\$25.83
Comstock	139	\$48.67
Conger	148	\$3.92
Cook	780	\$61.25
Coon Rapids	61,876	\$25.00
Correll	41	\$1.67
Cosmos	550	\$20.08
Cottage Grove	34,394	\$16.65
Cottonwood	992	\$42.00
Courtland	608	\$40.50
Cromwell	138	\$31.25
Crookston	7,887	\$11.25
Crosby	2,186	\$36.83
Crosslake	1,979	\$36.00
Crystal	22,154	\$16.67
Currie	207	\$13.50
Cyrus	380	\$17.33

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Dalton	312	\$25.00
Danube	413	\$11.68
Danvers	133	\$18.75
Darfur	67	\$38.00
Darwin	424	\$27.08
Dassel	1,488	\$51.50
Dawson	1,424	\$30.44
Dayton	4,622	\$13.75
Deephaven	3,658	\$28.33
Deer Creek	257	\$30.00
Deer River	1,032	\$25.25
Deerwood	404	\$38.58
Delano	5,401	\$74.17
Dennison	137	\$19.53
Dent	199	\$25.00
Detroit Lakes	8,507	\$32.29
Dilworth	3,925	\$34.62
Dodge Center	2,640	\$35.62
Donnelly	272	\$13.00
Doran	24	\$40.00
Dover	744	\$31.67
Dovray	58	\$50.00
Duluth	86,177	\$42.69
Dumont	65	\$30.00
Dundas	1,337	\$68.25
Eagan	64,535	\$16.55
Eagle Bend	497	\$33.00
Eagle Lake	2,384	\$41.67
East Bethel	11,621	\$16.41
East Grand Forks	8,458	\$21.29

Community	Population	Mo. Residential Sewer Charge
East Gull Lake	1,088	\$34.33
Easton	181	\$29.33
Echo	309	\$35.20
Eden Prairie	60,024	\$17.72
Eden Valley	534	\$36.25
Edgerton	1,277	\$15.00
Edina	47,790	\$18.19
Effie	136	\$4.58
Eitzen	243	\$23.00
Elbow Lake	1,274	\$34.00
Elgin	1,320	\$12.50
Elizabeth	199	\$10.00
Elk River	22,790	\$21.00
Elko New Market	3,845	\$40.02
Elkton	128	\$36.00
Ellendale	654	\$12.00
Ellsworth	470	\$24.00
Elmore	657	\$40.67
Ely	3,502	\$59.99
Elysian	422	\$30.25
Emily	758	\$45.02
Emmons	347	\$10.50
Erskine	494	\$21.00
Evan	31	\$41.67
Evansville	665	\$38.08
Eveleth	3,732	\$35.50
Excelsior	2,254	\$35.53
Eyota	2,132	\$42.83
Fairfax	1,024	\$28.00
Fairmont	10,639	\$35.83

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Falcon Heights	5,307	\$22.17
Faribault	23,195	\$27.12
Farmington	20,305	\$16.00
Farwell/Kensington Sanitary District	343	\$29.00
Felton	131	\$6.00
Fergus Falls	13,258	\$28.24
Fertile	851	\$14.33
Finlayson	282	\$23.83
Fisher	437	\$35.50
Flensburg	206	\$15.00
Floodwood	519	\$25.25
Foley	2,576	\$13.30
Forada	187	\$65.00
Forest Lake	18,077	\$27.50
Foreston	643	\$35.00
Fosston	1,752	\$29.75
Fountain	404	\$70.30
Franklin	646	\$45.25
Frazee	1,398	\$20.52
Freeborn	261	\$30.00
Freeport	606	\$22.15
Fridley	27,394	\$22.00
Frost	214	\$47.50
Fulda	1,519	\$14.00
Garfield	253	\$35.00
Gary	145	\$48.75
Gaylord	2,219	\$23.33
Geneva	563	\$8.33
Georgetown	254	\$12.00
Ghent	390	\$31.00

Community	Population	Mo. Residential Sewer Charge
Gibbon	749	\$17.50
Gilbert	1,881	\$54.95
Gilman	250	\$16.67
Glencoe	5,654	\$40.75
Glenville	660	\$13.33
Glenwood	2,570	\$37.70
Glyndon	1,402	\$46.50
Golden Valley	20,314	\$20.45
Gonvick	342	\$29.75
Good Thunder	549	\$36.06
Goodhue	1,111	\$22.50
Goodridge	182	\$17.00
Goodview	4,003	\$22.08
Graceville	556	\$46.00
Granada	305	\$10.00
Grand Marais	1,136	\$58.58
Grand Meadow	985	\$26.00
Grand Rapids	10,833	\$24.06
Granite Falls	2,092	\$24.06
Grasston	157	\$30.00
Green Isle	303	\$50.35
Greenfield	2,710	\$51.88
Greenwood	638	\$21.67
Grey Eagle	435	\$29.50
Grove City	618	\$49.75
Grygla	233	\$16.00
Hackensack	386	\$24.00
Hallock	962	\$8.17
Halstad	652	\$34.83
Hamburg	610	\$34.20

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Hammond	154	\$50.50
Hampton	802	\$16.00
Hancock	794	\$38.00
Hanley Falls	275	\$47.75
Hanover	2,171	\$28.48
Hanska	388	\$13.05
Hardwick	157	\$15.00
Harmony	1,076	\$54.25
Harris	965	\$73.44
Hartland	281	\$28.33
Hastings	21,899	\$16.25
Hatfield	44	\$35.00
Hawley	1,936	\$29.75
Hayfield	1,222	\$56.25
Hayward	166	\$30.50
Hazel Run	35	\$45.00
Hector	1,149	\$39.60
Henderson	814	\$76.10
Hendricks	689	\$49.00
Hendrum	230	\$20.00
Henning	834	\$37.00
Henriette	38	\$33.50
Herman	516	\$32.33
Hermantown	9,267	\$46.00
Heron Lake	622	\$25.00
Hewitt	260	\$30.35
Hibbing	16,395	\$33.75
Hill City	503	\$31.28
Hills	704	\$32.00
Hilltop	660	\$10.23

Community	Population	Mo. Residential Sewer Charge
Hinckley	1,888	\$34.30
Hitterdal	205	\$3.06
Hoffman	575	\$56.00
Hokah	420	\$48.58
Holdingford	638	\$30.00
Holland	241	\$10.00
Hollandale	236	\$22.33
Holloway	96	\$14.00
Hopkins	17,531	\$22.08
Houston	1,020	\$34.55
Howard Lake	1,506	\$70.76
Hoyt Lakes	2,017	\$26.00
Hugo	12,685	\$19.37
Hutchinson	14,185	\$38.50
Ihlen	51	\$2.78
Independence	3,472	\$56.00
International Falls	6,427	\$61.31
Inver Grove Heights	33,638	\$20.37
Iron Junction	102	\$52.00
Ironton	595	\$35.04
Isanti	5,050	\$57.44
Isle	654	\$78.92
Ivanhoe	542	\$42.00
Jackson	3,300	\$32.17
Janesville	2,106	\$20.00
Jasper	517	\$11.25
Jeffers	435	\$34.50
Jordan	5,418	\$46.11
Kandiyohi	550	\$61.45
Karlstad	827	\$10.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Kasson	5,807	\$54.31
Keewatin	1,142	\$30.00
Kelliher	322	\$28.50
Kellogg	451	\$18.27
Kennedy	158	\$26.00
Kenneth	84	\$36.00
Kent	75	\$44.60
Kenyon	1,959	\$28.42
Kettle River	150	\$57.92
Kiester	508	\$41.00
Kilkenny	384	\$24.35
Kimball	716	\$31.50
Kinney	153	\$21.50
La Crescent	4,867	\$15.92
Lafayette	577	\$50.02
Lake Benton	674	\$37.50
Lake Bronson	254	\$12.00
Lake City	947	\$41.53
Lake Crystal	2,540	\$42.00
Lake Elmo	7,997	\$25.00
Lake Henry	73	\$30.00
Lake Lillian	213	\$37.65
Lake Park	795	\$32.50
Lake Shore	1,243	\$33.33
Lake Wilson	220	\$11.25
Lakefield	1,641	\$37.50
Lakeville	54,951	\$19.23
Lamberton	938	\$34.25
Lancaster	286	\$25.80
Lanesboro	751	\$185.00

Community	Population	Mo. Residential Sewer Charge
Laporte	193	\$35.50
Lauderdale	2,494	\$16.34
Le Center	2,431	\$34.42
Le Roy	922	\$22.50
Le Sueur	4,084	\$44.85
Lester Prairie	1,526	\$71.92
Lewiston	1,779	\$75.66
Lewisville	229	\$67.65
Lexington	2,147	\$17.75
Lilydale	818	\$17.50
Lindstrom	4,364	\$38.50
Lino Lakes	19,996	\$19.76
Lismore	282	\$39.30
Litchfield	6,742	\$44.89
Little Canada	9,722	\$16.67
Little Falls	8,356	\$27.75
Littlefork	656	\$14.00
Long Lake	1,951	\$23.60
Long Prairie	3,437	\$21.77
Longville	119	\$38.25
Lonsdale	3,466	\$51.00
Loretto	739	\$37.00
Lowry	321	\$30.00
Lucan	180	\$29.50
Luverne	4,690	\$41.97
Lynd	485	\$29.78
Mabel	761	\$46.00
Madelia	2,723	\$31.40
Madison	1,572	\$47.50
Madison Lake	1,103	\$60.45

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Magnolia	212	\$2.42
Mahnomen	1,526	\$17.03
Mahtomedi	7,718	\$30.82
Mankato	38,725	\$27.93
Mantorville	1,175	\$45.30
Maple Grove	60,241	\$16.67
Maple Plain	1,732	\$42.98
Mapleton	2,061	\$19.79
Mapleview	163	\$21.25
Maplewood	37,572	\$19.60
Marble	701	\$34.00
Marietta	222	\$12.50
Marine on St Croix	672	\$38.08
Marshall	13,534	\$38.32
Mayer	1,306	\$50.25
Maynard	498	\$31.50
Mazeppa	675	\$44.35
McGrath	72	\$28.00
McGregor	393	\$25.00
McIntosh	533	\$10.00
Meadowlands	117	\$21.75
Medford	1,274	\$47.75
Medina	4,794	\$23.80
Melrose	3,559	\$30.75
Menahga	1,186	\$18.40
Mendota	160	\$13.33
Mendota Heights	11,191	\$22.08
Middle River	323	\$35.00
Milaca	2,944	\$19.50
Milan	393	\$11.67

Community	Population	Mo. Residential Sewer Charge
Millerville	165	\$14.17
Milroy	201	\$22.00
Minneapolis	381,833	\$20.99
Minneota	1,301	\$14.94
Minnesota City	218	\$36.00
Minnesota Lake	653	\$25.83
Minnetonka	49,766	\$25.20
Minnetonka Beach	713	\$25.00
Minnetrista	6,157	\$28.33
Montevideo	5,343	\$39.08
Montgomery	3,013	\$54.25
Monticello	12,506	\$25.45
Montrose	2,726	\$58.15
Moorhead	37,358	\$27.45
Moose Lake	2,715	\$28.38
Mora	3,583	\$44.20
Morgan	1,023	\$64.55
Morris	5,286	\$83.33
Morristown	1,029	\$46.00
Morton	479	\$58.67
Motley	596	\$33.50
Mound	9,069	\$34.14
Mounds View	12,162	\$20.95
Mountain Iron	2,886	\$32.50
Mountain Lake	2,270	\$39.02
Murdock	237	\$14.00
Myrtle	45	\$2.00
Nashwauk	983	\$11.00
Nassau	96	\$27.58
Nevis	493	\$30.00

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
New Auburn	577	\$48.08
New Brighton	21,444	\$21.70
New Germany	421	\$52.00
New Hope	20,358	\$27.50
New London	1,267	\$96.90
New Munich	318	\$47.50
New Prague	7,321	\$88.33
New Richland	1,020	\$58.51
New Ulm	13,493	\$27.85
New York Mills	1,500	\$51.86
Newfolden	351	\$24.00
Newport	3,487	\$24.79
Nicollet	1,200	\$29.35
Nielsville	182	\$36.00
Nisswa	2,261	\$45.15
North Branch	10,046	\$53.20
North Mankato	13,258	\$28.86
North St Paul	11,450	\$25.00
Northfield	18,608	\$35.38
Northome	202	\$35.75
Northrop	274	\$1.77
Norwood Young America	3,554	\$41.83
Oak Grove	7,959	\$62.00
Oak Park Heights	4,317	\$22.00
Oakdale	27,473	\$20.70
Odessa	107	\$30.00
Ogema	165	\$3.00
Ogilvie	401	\$55.78
Okabena	179	\$22.00
Oklee	465	\$17.50

Community	Population	Mo. Residential Sewer Charge
Olivia	2,438	\$46.06
Onamia	965	\$40.08
Orono	7,428	\$44.68
Orr	279	\$69.37
Ortonville	1,919	\$22.17
Osakis	1,599	\$27.00
Oslo	311	\$40.00
Osseo	2,495	\$15.00
Ostrander	303	\$39.50
Otsego	13,020	\$33.92
Owatonna	25,456	\$22.58
Palisade	174	\$57.00
Park Rapids	3,742	\$17.83
Parkers Prairie	1,080	\$32.19
Paynesville	2,340	\$18.92
Pease	133	\$51.83
Pelican Rapids	2,716	\$30.50
Pemberton	313	\$47.00
Pennock	569	\$9.60
Pequot Lakes	2,162	\$49.88
Perham	2,968	\$13.37
Perley	110	\$45.00
Peterson	224	\$47.00
Pillager	507	\$35.00
Pine City	3,186	\$37.50
Pine Island	2,533	\$36.95
Pipestone	4,304	\$45.15
Plainview	3,332	\$48.69
Plummer	266	\$18.00
Plymouth	69,963	\$15.40

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Porter	184	\$15.83
Preston	1,318	\$30.14
Princeton	4,643	\$52.50
Prinsburg	432	\$53.10
Prior Lake	22,570	\$20.90
Racine	449	\$25.00
Ramsey	23,267	\$22.26
Randall	543	\$36.35
Raymond	744	\$43.40
Red Lake Falls	1,447	\$27.92
Red Wing	16,447	\$35.00
Redwood Falls	5,254	\$24.03
Remer	391	\$51.47
Renville	1,447	\$41.03
Revere	85	\$22.75
Rice	1,126	\$17.00
Richfield	35,053	\$19.45
Richmond	1,432	\$50.15
Robbinsdale	13,947	\$26.38
Rochester	105,576	\$31.72
Rockford	3,890	\$31.95
Rockville	2,278	\$18.10
Rogers	8,122	\$16.28
Rollingstone	717	\$26.08
Roscoe	115	\$28.00
Rose Creek	470	\$23.00
Roseau	2,656	\$16.25
Rosemount	21,240	\$16.32
Roseville	33,497	\$20.42
Rothsay	259	\$40.50

Community	Population	Mo. Residential Sewer Charge
Round Lake	378	\$11.00
Royalton	1,068	\$32.50
Rush City	3,057	\$26.10
Rushford	1,918	\$36.95
Rushford Village	953	\$49.00
Rushmore	277	\$33.00
Russell	351	\$16.00
Ruthton	203	\$20.83
Sabin	631	\$20.00
Sacred Heart	465	\$43.59
Sanborn	359	\$31.00
Sandstone	2,763	\$37.70
Sartell	15,175	\$27.61
Sauk Centre	4,293	\$43.53
Sauk Rapids	12,635	\$22.55
Savage	26,897	\$10.40
Scanlon	1,022	\$57.75
Seaforth	87	\$69.00
Sebeka	748	\$27.50
Shafer	884	\$35.28
Shakopee	36,110	\$15.33
Shelly	220	\$35.00
Sherburn	996	\$35.17
Shoreview	25,023	\$22.49
Shorewood	7,307	\$24.28
Silver Bay	2,081	\$36.94
Silver Creek	2,300	\$44.00
Silver Lake	757	\$25.25
Slayton	2,162	\$20.00
Sleepy Eye	3,597	\$19.88

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
South Haven	215	\$52.90
South St Paul	20,283	\$24.34
Spicer	1,263	\$72.45
Spring Lake Park	6,318	\$19.68
Spring Park	1,538	\$31.25
Spring Valley	2,475	\$36.94
Springfield	2,060	\$24.17
St Anthony	8,226	\$19.95
St Bonifacius	2,176	\$22.25
St Charles	3,706	\$46.23
St Clair	744	\$72.00
St Cloud	65,986	\$19.57
St Francis	7,026	\$34.75
St Hilaire	232	\$50.42
St James	4,573	\$38.58
St Joseph	6,383	\$23.25
St Leo	156	\$21.00
St Louis Park	45,043	\$17.93
St Martin	312	\$12.00
St Michael	15,896	\$17.70
St Paul	283,991	\$27.50
St Paul Park	5,283	\$21.15
St Peter	11,196	\$70.80
Stacy	1,471	\$23.11
Staples	3,103	\$20.50
Starbuck	1,234	\$41.00
Steen	205	\$20.00
Stephen	720	\$32.25
Stewart	642	\$13.30
Stewartville	5,902	\$23.45

Community	Population	Mo. Residential Sewer Charge
Stillwater	18,058	\$22.00
Storden	238	\$35.00
Sunburg	93	\$35.40
Swanville	329	\$32.50
Tamarack	67	\$45.00
Taunton	159	\$22.50
Taylor's Falls	929	\$23.83
Thief River Falls	8,563	\$10.25
Thomson	127	\$42.50
Tonka Bay	1,378	\$43.50
Tower	483	\$25.75
Tracy	2,056	\$22.15
Trimont	619	\$57.80
Truman	1,159	\$23.89
Twin Lakes	187	\$11.67
Twin Valley	833	\$19.00
Two Harbors	3,729	\$41.63
Tyler	1,084	\$15.75
Ulen	573	\$37.40
Underwood	385	\$45.00
Upsala	529	\$24.30
Urbank	66	\$46.00
Utica	339	\$11.67
Vadnais Heights	12,313	\$20.83
Vergas	312	\$24.50
Vermillion	411	\$29.00
Verndale	470	\$39.50
Vernon Center	307	\$56.33
Vesta	359	\$28.83
Victoria	7,143	\$20.80

**Appendix 7: 2015 Wastewater Infrastructure Needs Survey (WINS)
Average Monthly Residential Sewer Charges**

By Charge (Highest to Lowest)

Community	Population	Mo. Residential Sewer Charge
Viking	82	\$60.00
Villard	290	\$5.00
Virginia	8,742	\$38.62
Wabasha	2,532	\$55.43
Wabasso	613	\$39.40
Waconia	10,429	\$33.35
Wadena	4,179	\$29.71
Wahkon	341	\$28.17
Waite Park	6,729	\$32.95
Waldorf	175	\$41.58
Walker	926	\$40.50
Walnut Grove	812	\$46.95
Walters	110	\$38.50
Waltham	144	\$30.00
Wanamingo	1,013	\$32.50
Wanda	72	\$20.00
Warba	164	\$40.00
Warren	1,900	\$40.00
Warroad	2,039	\$34.75
Waseca	9,405	\$41.46
Watertown	4,140	\$36.82
Waterville	1,808	\$19.70
Watkins	978	\$45.50
Watson	268	\$102.05
Waubun	435	\$14.58
Waverly	1,127	\$77.30
Wayzata	3,717	\$28.66
Welcome	811	\$35.00
Wells	2,345	\$37.00
Wendell	159	\$16.00

Community	Population	Mo. Residential Sewer Charge
West Concord	752	\$58.00
West St Paul	19,661	\$25.67
Westbrook	625	\$21.00
Wheaton	1,531	\$46.79
White Bear Lake	23,797	\$19.00
Williams	199	\$57.00
Willmar	19,459	\$51.50
Willow River	401	\$30.00
Wilmont	280	\$23.75
Windom	4,626	\$30.77
Winger	207	\$13.08
Winnebago	1,514	\$36.50
Winona	27,671	\$16.42
Winsted	2,360	\$48.82
Winton	152	\$41.83
Wolf Lake	69	\$45.00
Wolverton	98	\$40.30
Wood Lake	401	\$36.40
Woodbury	60,737	\$19.19
Woodland	420	\$32.63
Worthington	12,531	\$29.44
Wykoff	560	\$54.14
Wyoming	7,730	\$29.52
Zimmerman	5,091	\$31.58
Zumbro Falls	166	\$45.00
Zumbrota	3,209	\$21.55