

## MAYOR AND COUNCIL COMMUNICATION

DATE:	10/20/15
REGULAR	
ITEM:	#15

AGENDA ITEM:	WAC/SAC "Proforma" Projection Model
SUBMITTED BY:	Clark Schroeder
THROUGH:	Clark Schroeder
<b>REVIEWED BY:</b>	Clark Schroeder

### SUGGESTED ORDER OF BUSINESS:

-	Introduction of Item	Clark Schroeder
-	Report/Presentation	Clark Schroeder
-	Questions from Council to Staff	Mayor Facilitates
-	Public Input, if Appropriate	Mayor Facilitates
-	Call for Motion	Mayor & City Council
-	Discussion	Mayor & City Council
-	Action on Motion	Mayor Facilitates

## PUBLIC POLICY STATEMENT: NONE

## BACKGROUND AND STAFF REPORT:

At recent council meetings, there have been discussions surrounding the "profroma" projection model which is used to forecast future activity in the enterprise funds (water, sewer and storm water). There were questions related to the spread sheets presented at the meeting. In reviewing the spread sheets, when they were printed, one of the columns did not print (2014 actual activity). This resulted in the numbers printed not adding up to the total listed on the spread sheet. Another question was asked on why certain numbers were not exactly divisible by the set WAC fees per rec of \$4,000. As a result of special prepaid water agreements with Lake Elmo Avenue land owners, some of which were not directly driven by a set number of Rec units, cause that math to not be exact. Changing any of the assumptions (# and timing of build outs; residential or commercial, etc) can impact the projected revenue by millions of dollars; up or down.

The Pro-forma projection models are not new. They are long term projections which are done when there is any significant development activity planned. Models have been found dating back as far as 2004 and were updated in 2007, 2009, 2010 and 2011 by the Finance staff at that time.

In 2012 it was decided to hire Northland Financial Services to do an independent model which they did do and present to the City Council on 10/2/12 (see attachment). All of the statistical information was compiled and provided to Northland services by the City Finance Department.

In 2013, Northland services was again hired to update the model to determine if the fees being charged in the Utility funds were reasonable and consistent with other Cities. Their proposal was presented to the City Council on 2/28/13 (see attachment), suggesting the current utility fee structure which is in place today. (Changed the development fee structure from one \$3,900 fee due at build out to a \$4,000 fee of



## MAYOR AND COUNCIL COMMUNICATION

DATE:	10/20/15
REGULAR	
ITEM:	#16

AGENDA ITEM:	Lake Elmo Water Rate Analysis
SUBMITTED BY:	Julie Fliflet
THROUGH:	Cathy Bendel
<b>REVIEWED BY:</b>	Cathy Bendel

## SUGGESTED ORDER OF BUSINESS:

-	Introduction of Item	Julie Fliflet
-	Report/Presentation	Julie Fliflet
-	Questions from Council to Staff	Mayor Facilitates
-	Public Input, if Appropriate	Mayor Facilitates
-	Call for Motion	Mayor & City Council
-	Discussion	Mayor & City Council
-	Action on Motion	Mayor Facilitates

## PUBLIC POLICY STATEMENT: NONE

## BACKGROUND AND STAFF REPORT:

In 2010 due to the State mandated water conservation initiative, the City of Lake Elmo moved to a tiered rate structure. Council Member Fliflet, as Finance Committee Chair and the City Finance Director have done some initial high level analysis and feel there is a potential to reduce the rates in the near future. Additional analysis needs to be done to determine what modifications can and should be made to the current rate structure.

## **<u>RECOMMENDATIONS</u>**:

Move to direct the City Finance Committee to further review and provide to the City Council their recommendation related to the possibility of reducing the water rates, proposed options for change and the timing of the proposed changes.

which a \$3,000 water access fee is due by the developer at plat with the remaining \$1,000 water connection fee being due at the time of the building permit.)

In 2013, the Finance Committee decided that a new Proforma model should be developed which would look at each line of the proposed water loop (I94 vs Lake Elmo Avenue vs Old Village) to determine whether each line would fund itself. This model was built focusing on those lines and provided information specific to those lines. This model was presented to the City Council as a basis for deciding whether to approve the Lake Elmo Avenue water and sewer lines. At this meeting, the City Council decided that the independent lines were not relevant as it was all part of the larger water "loop". The new model then became obsolete as it was set up by water line as a decision making tool for expansion and once the expansion was under way it needed to be revamped and streamlined.

In 2015, the Finance Director built a new condensed version of the proforma projection model, utilizing key linked worksheets (CIP, Debt service etc) and adding in new components which were previously not incorporated into the model (special assessment collections, new prepaid water contracts with parties in the I94/Lake Elmo Avenue area etc). This model was first shared with the City Council on 2/5/15. It needs to be noted that the special assessments receivable changed significantly when the development activity increased due to the large 100% infrastructure assessment projects (Section 34 etc). This new model is the version being discussed today.

## Accounting Information/Clarification

The enterprise funds are classified as "Business-Type" funds which are intended to be self-sufficient and not impacted by, nor funded by, the General Levy Funds (taxpayers). All activity in each of the enterprise funds (water, sewer and storm water) is audited each year by the City external auditors and is reported separately within the annual Comprehensive Annual Financial Report (reports available on the City website). However, if for some reason the Enterprise funds cannot cover their expenses, the bonds are backed by the City.

The Enterprise activity is comprised of two distinct components; Infrastructure and Operations. Infrastructure fees (Water and Sewer Access fees) are charged to be used for the expense of building and maintaining the infrastructure. Operational fees (Water and Sewer Connection fees) are charged to be used for the operating expenses to provide the services to the users (staffing, water meters, etc).

The challenge is in determining the level of infrastructure fees needed to be retained in reserve to cover the long term maintenance and replacement of the water and sewer infrastructure.

The operating fund balance needs to be sufficient to cover the operating costs while not charging an unreasonable fee to the users. Now that the water system is being expanded and new users are coming on board, there should be some relief coming to the water rates (tiers) which were initially developed in response to the state water conservation initiative. Any decisions being made need to factor in this on-going water conservation initiative and penalties if water usage exceeds the mandated per capita water consumption levels.

## **<u>RECOMMENDATIONS</u>**:

Move to a proforma software package to simplify the projections.

Obtain a cost estimate to have an Engineer develop a system analysis of our infrastructure, looking at long term funding needs.

## ATTACHMENTS:

- 1. Northland Utility Infrastructure Plan presented to the City Council on 10/2/12
- 2. Northland Financial Management Plan for Enterprise Funds presented to the City Council on 2/28/13
- 3. 9/4/15 Proforma with all columns shown

## **Conclusions and Recommendations** City of Lake Elmo **Utility Report**

October 2, 2012



Member FINRA and SIPC

The information presented at this meeting is intended solely for financial planning purposes. Northland Securities is not providing advice on the timing, terms, structure or similar matters related to a specific bond issue.

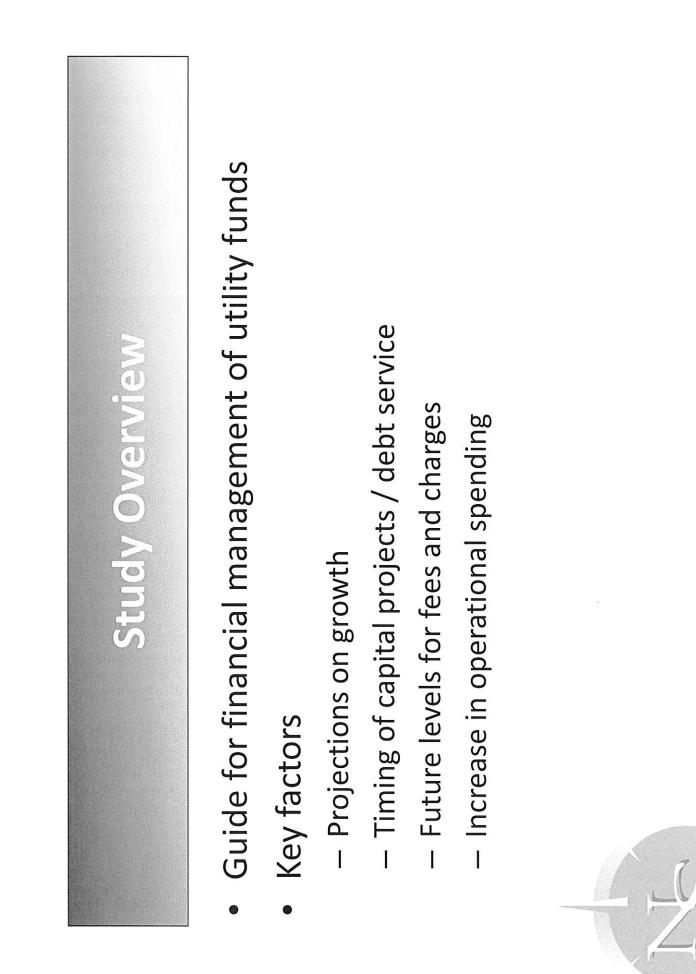


- Tammy Omdal, Northland Securities •
- Paul Donna, Northland Securities



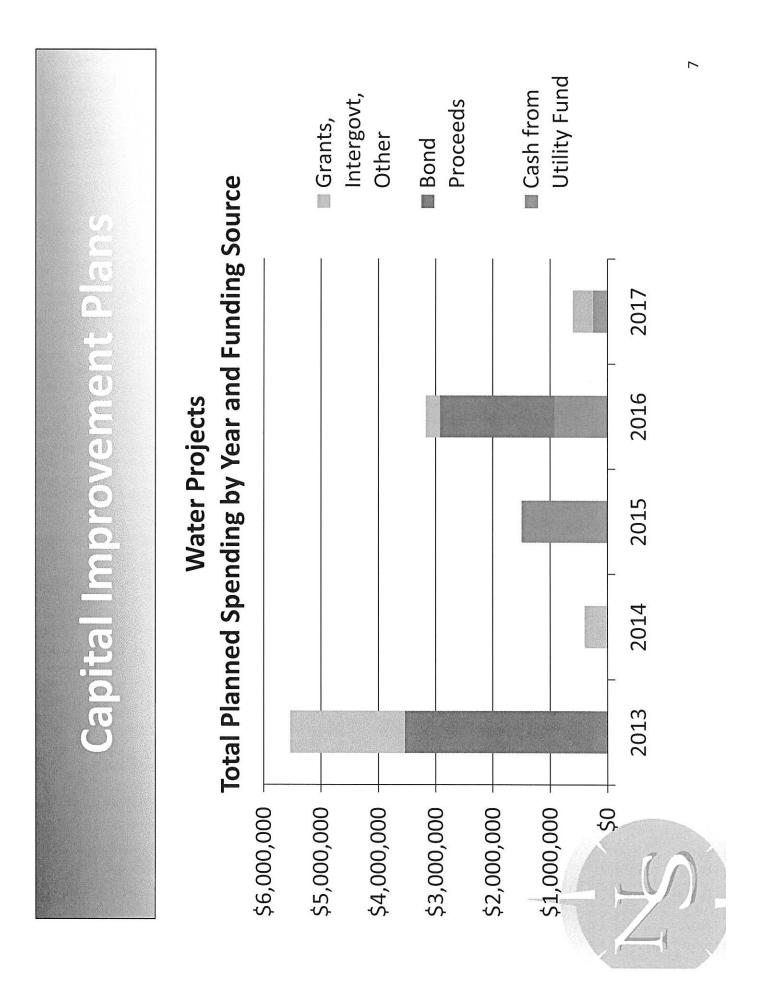
# Presentation Overview

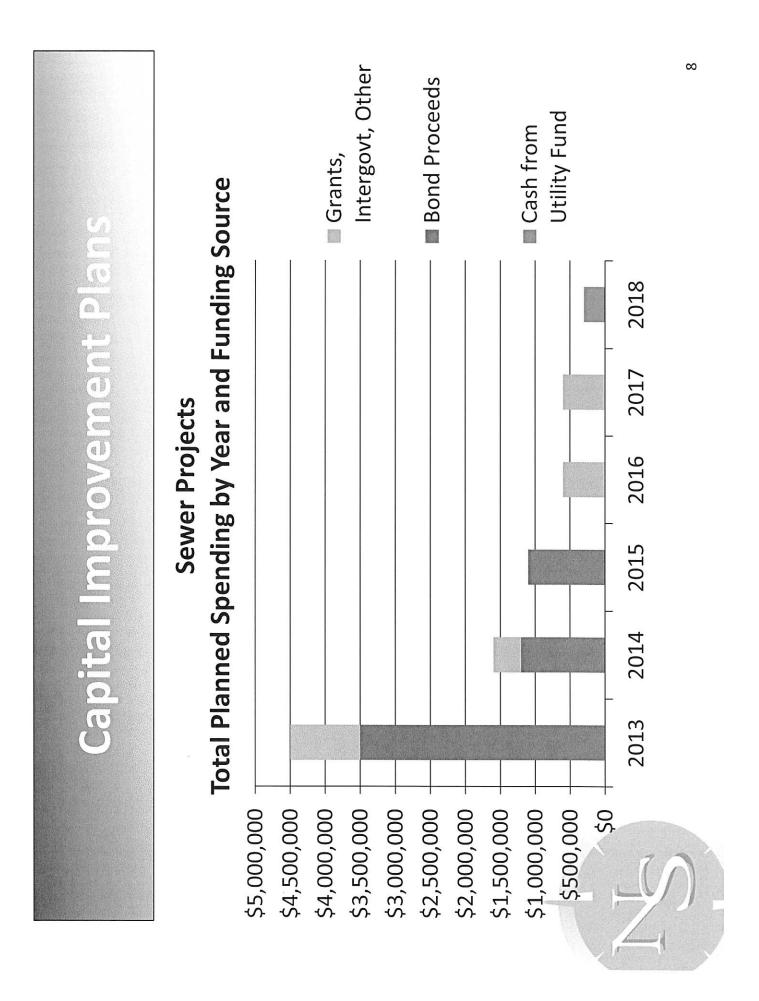
- Study overview and approach
- Conclusions
- Recommendations
- Capital Improvement Plans
- Debt Service
- Utility Rates
- Projected Growth
- Financial Plans



	Conclusions
Demar	Demand to expand the capacity of the system
<ul> <li>Higher custom</li> </ul>	Higher utility fees for all customers if growth in customers doesn't expand at projected levels
<ul> <li>Combining</li> <li>Combining</li> </ul>	Combination of projected growth in customers and increase to utility fees is projected to provide
sufficie	sufficient cash to the utility funds
20	

	Beommendations
•	Adopt new charge for the cost of connecting to sewer and increase the amount for connection to water
•	<ul> <li>Charges should be based on cost for infrastructure</li> <li>Uniform availability charge, collected when service</li> <li>becomes available</li> </ul>
•	<ul> <li>Alternative to special assessment</li> <li>Structure debt service around anticipated timing of development</li> </ul>
•	Adopt a formal fund balance policy for the utility funds
Z	





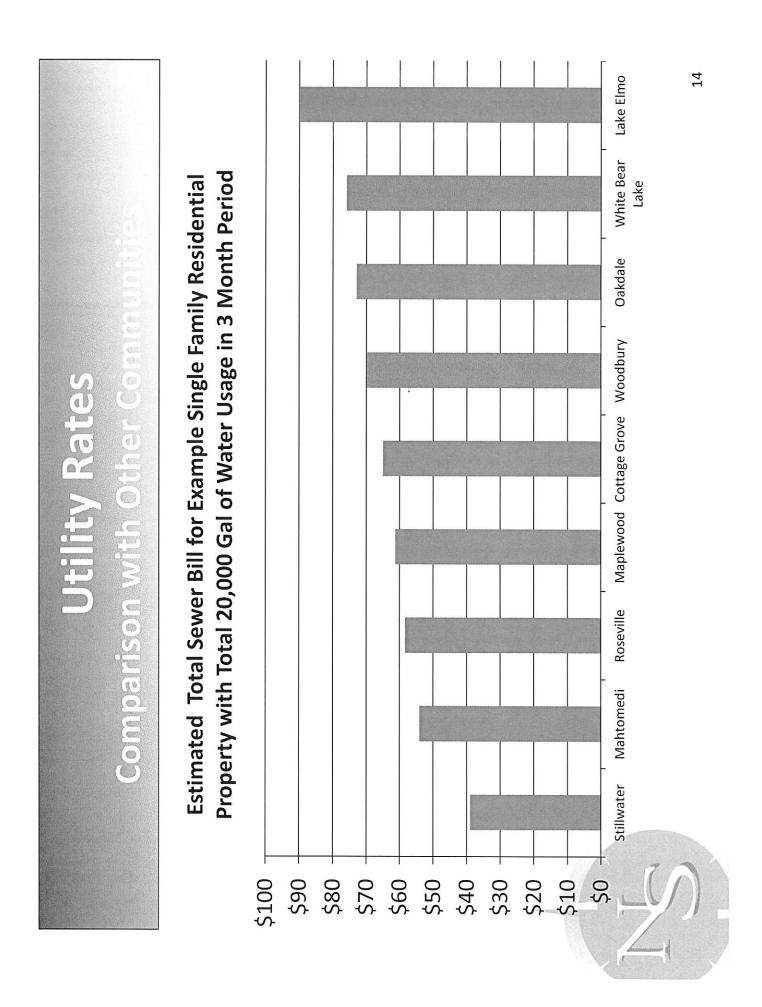
Debt service
<ul> <li>CIP anticipates the issuance of bonds to</li> </ul>
finance water and sanitary sewer projects
over the next five years
– \$5.54 million in G.O. water revenue bonds
– \$5.80 million in G.O. sewer revenue bonds
<ul> <li>Revenue from the utility funds is projected to</li> </ul>
support annual debt service (no property tax
levy)

Debt Service	Annual Estimated Debt Service Based on Future Bonding Plans in CIP and Estimated Structure and Future Rates							<ul> <li>SE03</li> <li>\$E03</li> <li>\$E03<th>10</th></li></ul>	10
	<b>A</b> \$1,400,000	\$1,200,000	\$1,000,000	\$800,000	\$600,000	\$400,000	\$200,000	\$0	0

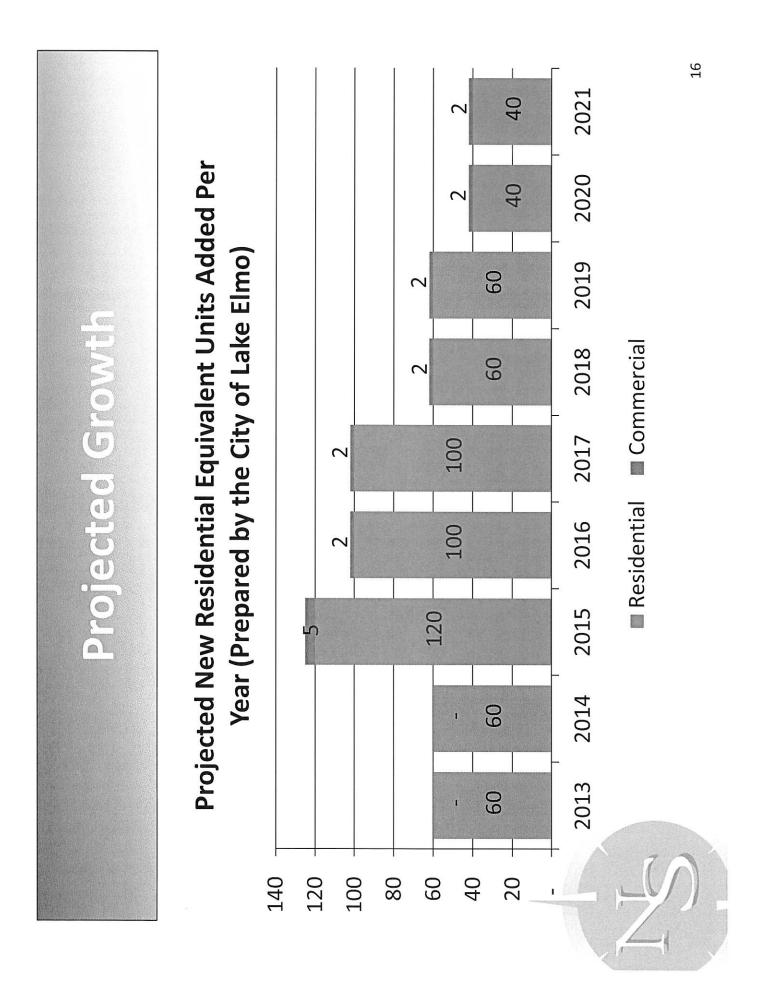
Utility Rates
<ul> <li>Utility fees and charges will need to cover</li> </ul>
both operating and non-operating (capital and debt service)
<ul> <li>Fees based on service and volume activity are</li> </ul>
shown to increase by 3% per year
<ul> <li>Actual fee increases will depend on operating</li> </ul>
performance and amount of actual revenue
collected from SAC/WAC (development)

	CHIRY BAGS
•	Future development is shown to provide significant revenue to the utility funds through collection of connection and availability charges
•	Growth projections drive the estimates for revenue from availability and connection charges
• ~~	Utility rates for existing customers may be impacted (positively or negatively) if projected
	growth varies from projections
Z	12

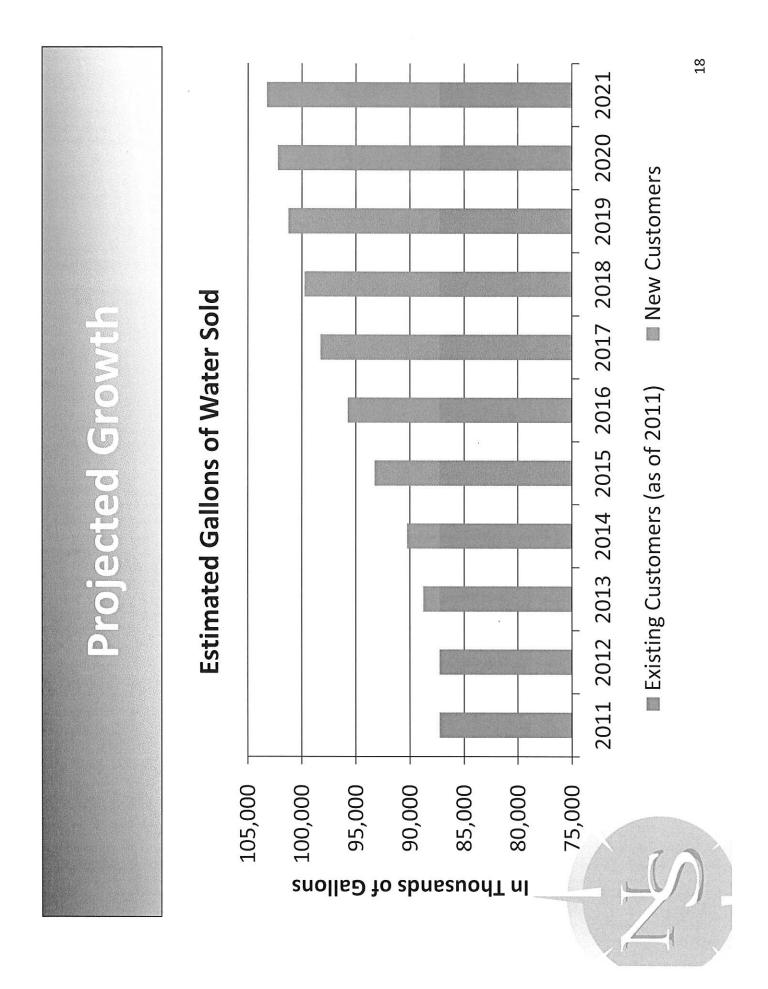
Comparison with Other Community	Estimated Total Water Bill for Example Single Family Residential Property with Total 20,000 Gal of Water Usage in 3 Month Period					Woodbury Oakdale Stillwater Maplewood White Bear Mahtomedi Lake Elmo Cottage Roseville Lake Grove 3.13
	\$90	\$80 \$70	\$60 \$50 \$10	\$30 \$20	\$10 \$0	20



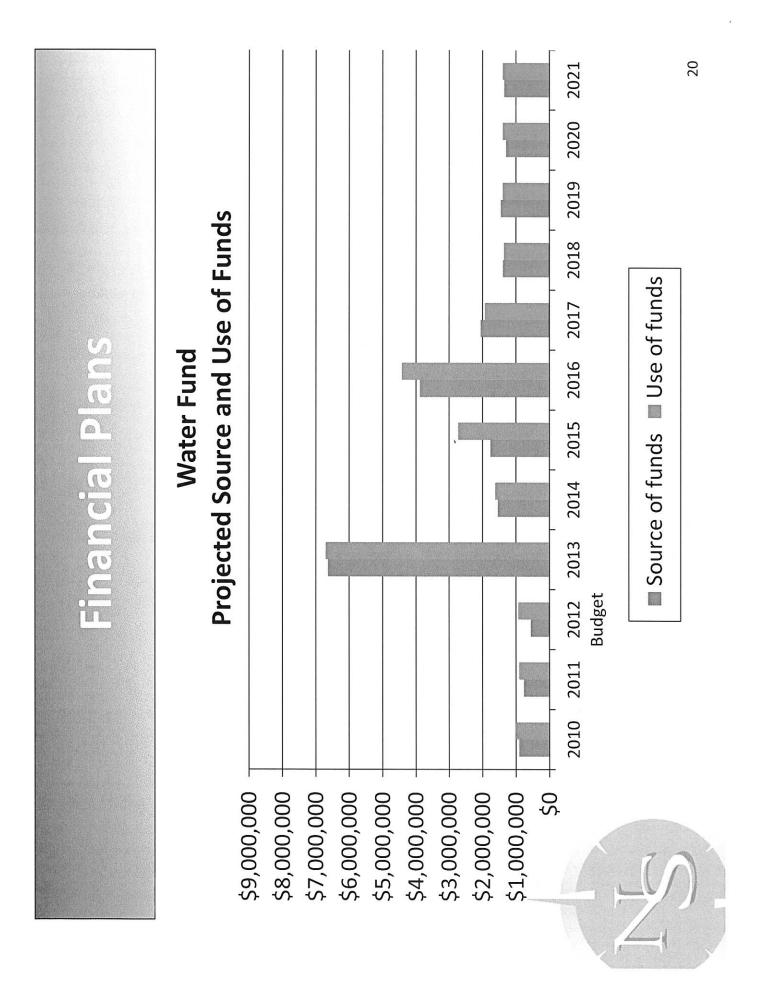
Utility Rate and Stillwater Bill for Examined and Alber Property For Equivalent The Alber Oakdale Stillwater Roseville	Ommunities	aple Single Family se Month Period				Cottage Lake Elmo Mahtomedi Woodbury Grove
Comparison Estimated Tot Residential F White Bear Maplewood Lake	E	al Storm Water Bill for Exam Property For Equivalent Thre				Stillwater Roseville
\$20.00 \$18.00 \$14.00 \$14.00 \$12.00 \$10.00 \$210.00 \$210.00 \$210.00 \$210.00 \$210.00 \$210.00 \$210.00 \$22.00 \$22.00 \$22.00	Compariso		6.00	2.00	8.00 6.00 4.00	

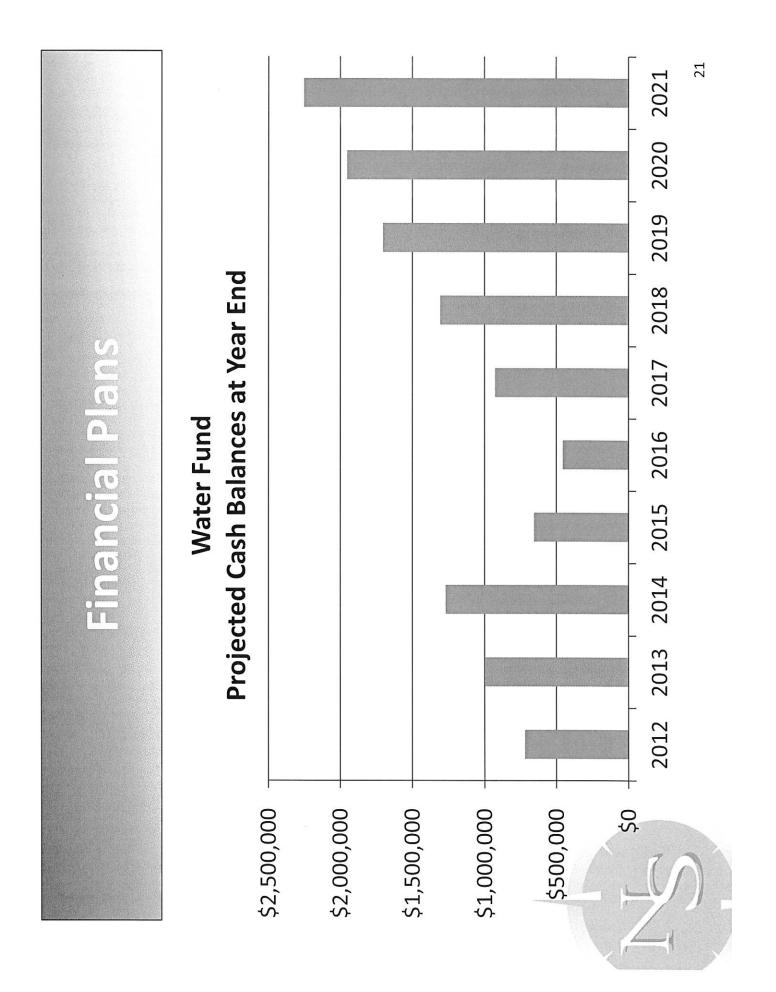


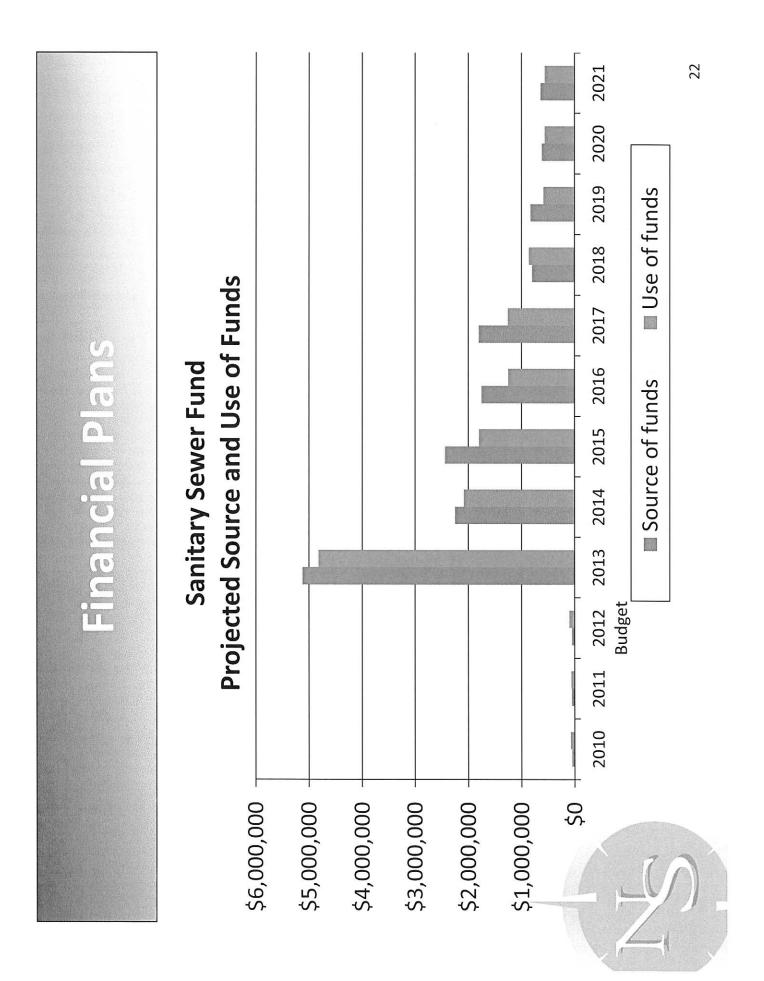
Projected Growth         Revenue from Development
<ul> <li>City may impose "just and equitable" charges for the use and availability of the utility</li> </ul>
systems and for connection to the systems (MN Statute 444.075, Subd. 3)
<ul> <li>Varies across cities in the amount and how cities collect revenue to pay for infrastructure</li> </ul>
<ul> <li>Basis of consumption, connection charges, availability charges, special assessments, other</li> </ul>
Sources

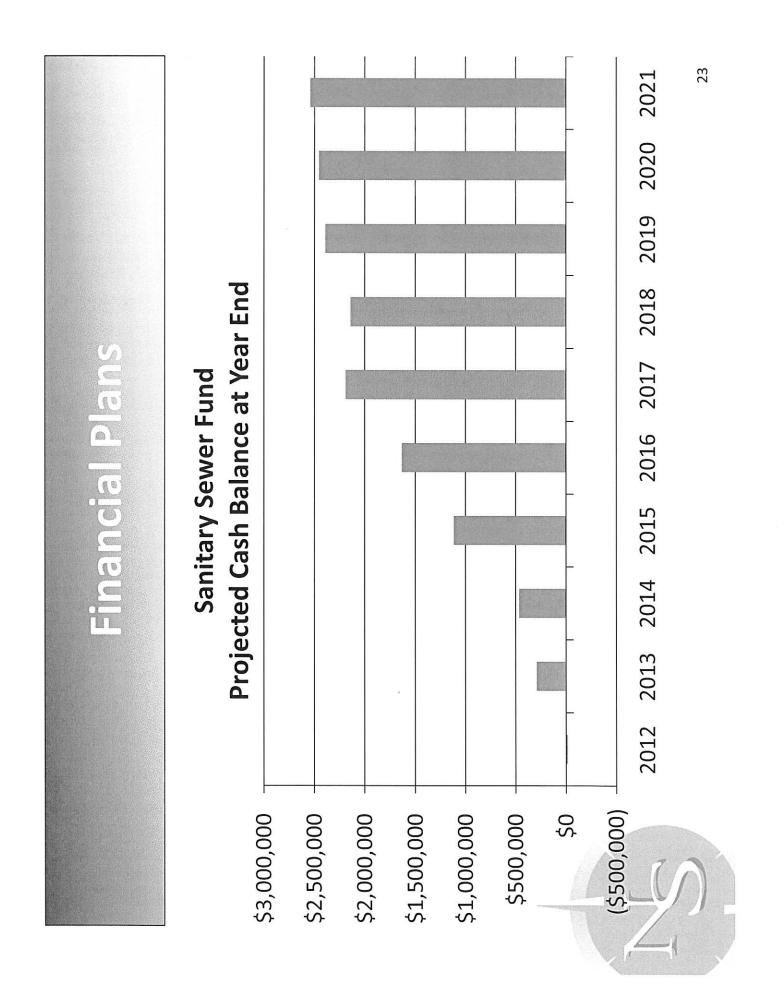


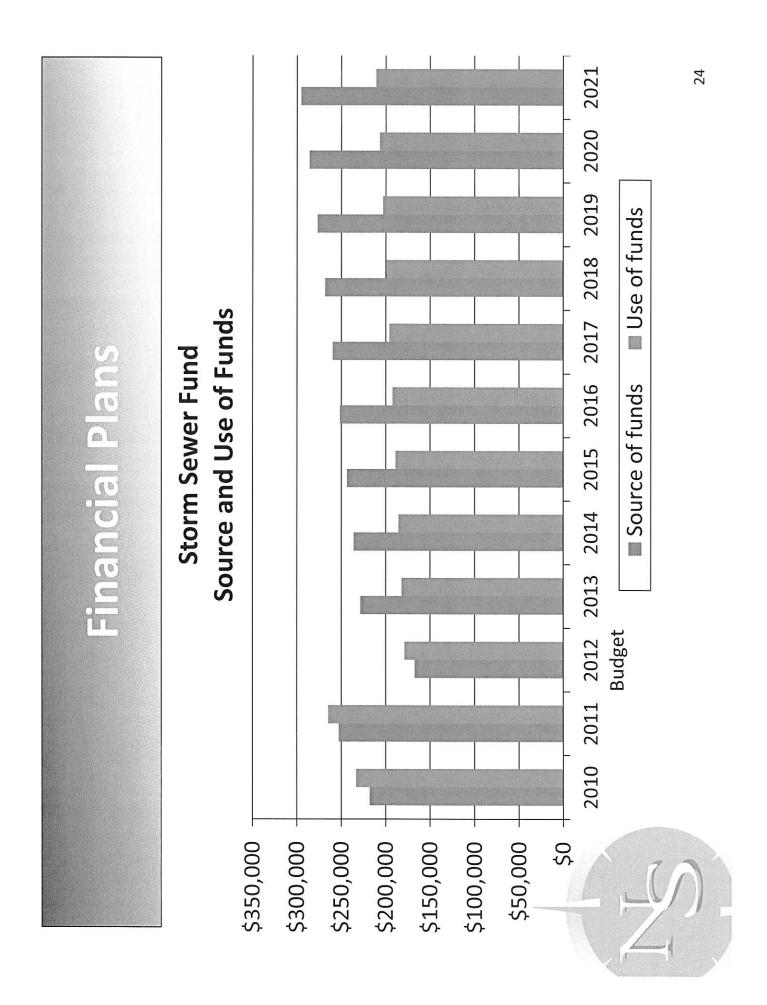
	Financia Pans
•	Multi-year financial plans prepared for water, sanitary sewer, and storm water funds
•	Goal of having minimum cash balance equivalent to 50% of operating expenditure
•	Projections show cash balances in excess of minimum based on assumptions for rates and
	projected growth, operating expenses, capital spending and debt service
Z	19

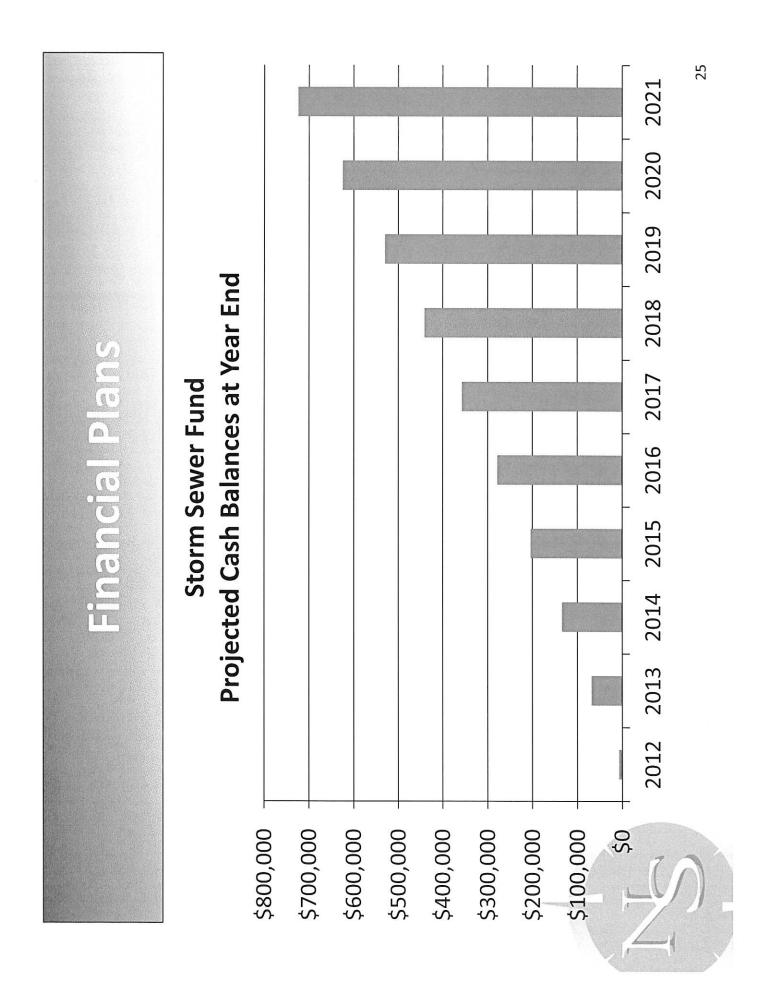












# Questions and Answers

- Study overview and approach
- Conclusions
- Recommendations
- Capital Improvement Plans
- Debt Service
- Utility Rates
- Projected Growth
- Financial Plans

The information presented in the report is intended solely for financial planning purposes. Northland Securities is not providing advice on the timing, terms, structure or similar matters related to a specific bond issue.

NORTHLANDSTRATEGIES Special Projects Group



Water, Sanitary Sewer, and Storm Sewer Services Financial Management Plan For

City of Lake Elmo, MN

LAKE ELMO

**2013 REPORT** 

As of February 28, 2013

## Letter of Transmittal

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:=

## NORTHLAND SECURITIES

February 28, 2013

Dean Zuleger City Administrator Lake Elmo City Hall 3800 Laverne Avenue North Lake Elmo, MN 55042

## RE: Updated Financial Management Plan for City Utility Funds

Dear Dean:

Northland was hired for financial planning services for utility system user charges and rates. Services include performing a utility Northland Securities, Inc. is pleased to present you with an update to the 2012 Financial Management Plan for City Utility Funds. adequacy of current revenues, and provides recommendation on future rates which reflect projected future expense and capital rate analysis for the Water, Sanitary Sewer, and Storm Water Utility Systems of the City of Lake Elmo. The analysis and report includes a review of the past financial performance, projected growth in residential equivalent connections, determines the outlay.

We appreciate the opportunity to work with the City of Lake Elmo.

Sincerely,

' Jammy and

Tammy Omdal Manager of Northland Strategies/Senior Vice President

45 South 7th Street, Suite 2000, Minneapolis, MN 55402 Main: (612) 851-5900 / Direct: (612) 851-4992 / Email: rfiftleld@northlandsecurities.com Member FINRA and SIPC Ξ

## **Executive Summary**

## **EXECUTIVE SUMMARY**

The report is presented as an update to the October 2, 2012 Financial Management Plan for Water, Sanitary Sewer, and Storm Water presented to the Lake Elmo City Council. The City requested an update to the 2012 Report to consider the financial impact of revised growth projections for the City.

The report and financial management plan is intended to serve as a guide for the financial management of the City's utility services. The report contains information on capital improvement plans to increase capacity of the utility systems, estimated future utility rates needed to support operations and capital improvement plans, and multi-year financial plans for each of the three utility funds that includes projected sources and uses of funds and estimated cash balances by year. The financial plans included in the report are built around identified key assumptions, including growth projections, cost drivers, and projected utility rates. To the extent the assumptions in the report change in the months and years ahead, which they will, the City will need to continue to adjust its financial plans accordingly.

## Study Approach

The report was prepared by Northland Securities. The following steps were taken as part of the study process:

• City provided information on historical spending and revenues, volume of water sold by different tiers and customer, capital improvement plans, and prior years budget information.

- City provided information on projected growth from future residential and commercial development.
- Information provided by the City was organized, analyzed, and used to support the development of financial plans.
- Once the initial financial plans were developed different scenarios were considered and analyzed to determine impact on utility rates.
- City staff offered input and feedback on the assumptions and desired outcomes.

It is also important to note aspects of financial performance not reviewed as part of this study:

- The validity of the assumptions and figures provided by the City on future growth was not reviewed.
- Analysis of the basis for the City's determination of prior sewer and water availability charges was not reviewed.
- The report does not include identification of project costs for construction of lateral utility line build outs. The City anticipates that future lateral build outs will be financed 100 percent through special assessments to benefiting property.
- The financial impact to the City of potential changes to the existing customer tier structure for charging for water and sanitary sewer services was not reviewed as part of this study.

## **Executive Summary**

## **Conclusions from Study**

The following conclusions were identified as a result of this study:

- 1. To meet projected service demands, the City will need to expand its capacity to deliver water and sanitary sewer services. This is driven by the City's projections for future development; the addition of housing and commercial units. The City plans to pay for the improvements through a combination of projected available cash, issuance of debt, grants and other intergovernmental proceeds.
- 2. Higher utility service fees for existing customers will be needed if new development does not occur at projected rate of growth. The issuance of debt to finance the identified improvements for water and sanitary sewer will require increased revenue to cover annual debt service. The City anticipates an increase in revenue driven by new development. If development occurs at a slower pace than projected, it may require the City to adjust the rates shown in the report. To be conservative, the study and report assume 50 percent of the total estimated annual growth (development) of residential and commercial units is realized for the purpose of estimating future revenue.
- 3. <u>Projected future year-end cash balances in the utility funds is estimated to be at or greater than 50</u> percent of operating expenditures. The fees and charges included in the report, combined with the projected historical volume of water sold, plus the projected "new" revenue from new residential equivalent connections (REC) will provide the cash needed to operate and maintain the utilities and to cover debt service.

## Recommendations

The following recommendations are offered based on the Conclusions from the Study.

- 1. <u>The City should adopt a new charge for the cost</u> <u>of connecting to municipal sanitary sewer and in-</u> <u>crease the amount it presently charges for connec-</u> <u>tion to municipal water</u>. This charge should reflect the City's cost of infrastructure for providing service. This new and increased charge is included in the report and reflected in the revenue shown in the financial plans. The charge will be collected with the building permit.
- 2. The City should implement a uniform trunk line availability charge for water and sanitary sewer services. The charge will be collected from property owners/developers when property is developed; it will be collected with the development contract for new development. The report does not include the cost of lateral build outs of utility lines. The study anticipates the City will assess 100 percent of lateral lines to benefiting property.
- 3. The City should plan to structure future debt in a conservative manner to provide the City with time for future development to occur and the flexibility to restructure debt if necessary. This may include delaying certain maturities and earlier call dates. An issuance of debt into the public market will require an credit rating review. The City's general obligation debt is currently rated Aa2 by Moody's Investors Service. The City's current debt profile is viewed by Moody's as "moderate". Even though general obligation revenue bonds are planned to be self supporting from enterprise revenues, the debt will be fully accounted for in the G.O. debt

ratios. Moody's will eliminate that debt from the debt ratios after a few years of demonstrated self supporting revenues. Based on previous Moody's 4. reports, the City has the capacity to absorb the increased debt ratios so long as there is not a deterioration of the City's tax base or weakening of the demographic profile and the City does not experience a material decline in financial reserves in comparison to similar rated cities.

4. <u>The City should adopt a formal fund balance poli-</u> cy. This policy will provide guidance for financial management and will inform future decisions on adjustments to utility fees and charges. The report is based on direction from City staff to plan for achieving a cash balance at 50 percent of anticipated annual operating expenditures.

# Organization of Report

The report is organized into five sections:

- 1. <u>Executive Summary</u> provides information on the organization of the report, study approach, using the report, and conclusions and recommendations.
- 2. <u>Background</u> discusses the historical context (i.e., growth and development of the community) and financial status of the City's utility funds.
- 3. <u>Capital Improvement Plan</u> provides information on the City's plans for expanding the capacity of the water and sanitary sewer systems. This includes estimates on project costs and sources of funds to pay for the improvements. The time horizon for the capital plan is years 2013 through 2017. The City anticipates capital spending after year 2018 but the specific projects and estimated costs have not yet been identified. Information on debt

service is included in the report for planned bond issuances.

- <u>Utility Rates</u> provided in the report include historical, current, and future proposed rates necessary to maintain a positive financial condition for the utility funds. Information is provided in the Appendix of the report on what proposed rate increases will mean to customers. Comparison to other cities is included.
- 5. Financial Plans are provided for the Water Fund, Sanitary Sewer Fund, and Storm Sewer Fund. The financial plans provide both historical, current, and future projected sources and uses of funds. Financial plans take into account capital improvement plans and rate structure. (The capital improvements plans included in the report are for years 2013-2017; the City anticipates future capital projects after year 2017 but has not yet identified the specific projects or cost estimates.)
- 6. <u>Appendix</u> provides charts of data from the financial plans and information on projected growth in residential and commercial customers.

# Using the Report

This report is intended to be a practical guide for ongoing management of the City's utility funds. Much of the information in the report has enduring value and will serve to continue to guide management decisions over a number of years. However, management of enterprise funds is a dynamic system. Customer base changes, statutes and rules change, cost of labor and materials and supplies will vary from assumptions from year-to-year. The report should continue to be the foundation of an annual review an update.

# **Executive Summary**

#### Background

### BACKGROUND

The City of Lake Elmo is located on the eastern edge of the Twin Cities metropolitan area. The City's 2030 Comprehensive Plan forecasts and provides for approximately eight times the growth in households and population during the 2000-2030 planning period than was experienced during the 1980-2000 period. The City reports an estimated 2010 population of 8,069 and 2,774 households (2010 Census). Population is estimated to increase to 18,403 by 2020 and households to 6,324 (2030 Comprehensive Plan). The land area for the City encompasses approximately 15,250 acres.

The City's 2030 Comprehensive Plan provides guidance on the City's plans for managing future demand for utility infrastructure. The City's 2011 financial statements were used as the basis for the report, along with the 2012 budget. The 2012 financial statements were not available for input for the report.

#### Water Utility

Lake Elmo owns, operates and maintains a municipal water supply and distribution system. The City has a goal to serve existing population desiring public water supply while preparing the system to allow people to connect as development occurs or existing areas request service. This policy guides the City's capital improvement planning and the need to maintain a flexible and responsive water system. Capital planning includes projects to correct existing deficiencies and to expand the system.

The City uses an enterprise fund to account for its wa-

ter operations. The unrestricted assets in the Water Fund totaled \$1,072,022 and a cash balance of \$752,658 at December 31, 2011. There were no significant transactions to report for the year ended December 31, 2011. (The 2012 financial statements are not yet available to include in this report.)

# Sanitary Sewer Utility

Property owners in the City are served by individual sewer systems or in limited areas by municipal sewer. Capital plans will provide for an increase in the number of properties to be served by municipal sewer and connection to the Regional Sewer System. The Metropolitan Council Environmental Services (MCES) plans to extend regional sewer service to serve a greater area of the City. The City uses an enterprise fund to account for its sewer operations. The unrestricted assets in the Sewer Fund totaled \$62,994 and a cash balance of \$27,062 at December 31, 2011. There were no significant transactions to report for the year ended December 31, 2011.

## Storm Sewer Utility

The City operates a storm sewer utility. The system of conveyances is owned and operated by the City and designed for collecting or conveying storm water, and that is not used for collecting or conveying sewer. The City collects an annual fee from property owners that is used to pay for the cost of constructing and maintaining the system.

# CAPITAL IMPROVEMENT PLAN AND DEBT SERVICE

The City has developed a multi-year (2013-2017) capital project plan for its utilities. The Capital Improvement Plan (CIP) provides details on project costs by year and proposed funding sources. Identified funding sources include the planned issuance of debt. The City anticipates additional capital project spending after year 2017 but the specific projects and cost estimates have not been identified and are therefore not included in the report. The CIP provides important input for the financial plans included in the report. The financial plans are inclusive of all sources and uses of funds, both operating and non-operating, including capital spending plans. At this time the City does not anticipate any capital improvements for the storm sewer utility in the next five years. A CIP summary is therefore not included in the report for storm sewer projects.

#### **Capital Projects**

The projects included in the CIP include projects to expand the capacity and correct deficiencies of the water and sanitary sewer systems. The City of Lake Elmo is a developing community with significant utility expansion needs. Projects include expansion of the City's water supply capacity and distribution system. Sanitary sewer services will be expanded through the construction of connections to the Regional Sewer System.

As a developing community, the City's capital improvement plans focus on expansion and does not presently include capital spending for maintenance of existing systems. This will need future consideration by the City as the community develops and infrastructure ages and requires major maintenance and/or replacement.

# Source of Funding for Capital Projects

The source of funding for the planned capital projects includes either one of the following sources or a combination thereof: cash balance from Water Fund and Sewer Fund; bond proceeds; levying of special assessments; grants, tax increment revenue collections, and intergovernmental revenue. To the extent future development expectations exceed or fall short of the City's projections, the City may want to adjust the amount of water project costs to be paid for with bond proceeds versus cash.

#### **Debt Service**

The current CIP for water and sanitary sewer utilities anticipates the use of bonds to undertake needed improvements while keeping fees as low as possible. The projections assume that the City will issue general obligation bonds and use utility revenues to pay all principal and interest. This approach provides the lowest cost of debt. The bonds will not count against the City's debt limit. Debt management is an important factor in the City's ongoing capital improvements planning. The City has the authority to issue pure revenue bonds for these improvements. With general obligation bonds, the City pledges to levy property taxes to cover any shortfall in utility revenues. Revenue bonds are

#### Capital Improvement Plan and Debt Service

backed solely by utility revenues. The alternative use of revenue bonds without a general obligation pledge would have several financial implications for the City:

- Interest rates will be higher. The difference will depend on the terms of the issue and the operation of the Utility.
- The City will be required to set fees that will create revenues that produce net income in excess of debt service. Any scenarios with ongoing annual deficits would not be viable.
- The bond issue would include a debt service reserve fund. A portion of the bond proceeds would be set aside to make payments in the event of revenue shortfalls.

As a result, higher fees will be required with the use of revenue bonds to finance planned improvements.

The finance plans and related fee schedules included in the report anticipate the issuance of general obligation (G.O.) revenue bonds to finance certain capital improvements. The estimates for debt service are based on bonds to be paid generally over 20 years or less. The estimated interest rates used to calculate annual debt service were conservatively estimated based on today's current rate environment (today's rates for a Aa2 rating plus 25 basis points for anticipated 2013 bonding and 50 basis points for later years). The actual interest rates will depend on final structure and market conditions at time of issuance.

Beginning on page 9, a summary of estimated annual debt service is provided for years 2012 to 2021 which is the planning horizon for the financial plans. On pages 10 and 11, detail on the annual estimated debt service for future water and sanitary sewer bond issuances is shown. The chart on page 12 provides a longer term

view of projected annual debt service for years 2012 through 2035, or over the life of the City's existing bonds and the life of future estimated bond issuances included in the report.

Based on the debt structure and assumptions for the study and report, by year 2021 the City will have combined cash balance in the water and sewer funds that is nearly equivalent to 90% of the estimated outstanding will greatly impact these estimates. The City will have call dates that will provide the City with the greatest port is structured to match estimated future revenue. debt obligations. Actual future growth (development) options at time of bond issuance to consider debt repayment schedules that are more aggressive than what is included in this report, if future revenue and cash balances suggest a more aggressive schedule is feasible. The City will have the option to structure bond amount of flexibility to manage its debt. These decisions can be made on an issuance by issuance basis in The timing of principal payments shown in the rethe future.

#### Capital Improvement Plan and Debt Service

							Ű	letine	mprov	Canital Improvement
		City of Lake Elmo	Elmo					an and	Debt	Plan and Debt Service
		Water Fund	pu							
	Summary of	Capital Impro	Summary of Capital Improvement Plan (CIP)	(CIP)						
						City has no	t identified b projects	City has not identified but does anticipate there will be future projects in years 2018-2021.	ipate there и 18-2021.	ill be future
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
Water supply well No. 4 and pumphouse /connection	1,500,000									1,500,000
Keats Ave 16" trunk watermain extension	1,050,000									1,050,000
Phase I: Western 194 Corridor (Inwood to Keats)										
Segment 1: Water booster pump	610,000									610,000
Segment 2: Inwood Ave 16" trunk watermain extension	1,600,000									1,600,000
Segment 3: 10th St to EP Bus Park 16" trunk watermain ext	780,000									780,000
Alt Segment 3: Azur Prop 16" trunk watermain extension										,
Alt Segment 5: 12" trunk watermain to non-contiguous East		400,000								400,000
Alt Segment 7: Ground storage tank			600,000							600,000
Phase II: Eastern 194 Corridor (Lake Elmo Ave. to Manning)										X
Segment 4: Lake Elmo Ave 12" trunk watermain extension				2,775,000						2,775,000
Phase IIIb: Village Area (East to Village Parkway)										t
Replace/upgrade watermains as streets disturbed			000'006							000'006
Village Parkway/39th Street				400,000	600,000					1,000,000
Total	5,540,000	400,000	1,500,000	3,175,000	600,000	,		•		11,215,000
Funding Source for Water Capital Projects										
Cash from Water Fund	2		1,500,000	925,000	250,000					2,675,000
Bond proceeds	3,540,000			2,000,000						5,540,000
Grants	1,000,000									1,000,000
Intergovernmental	1,000,000									1,000,000
Tax Increment /Developer Contribution		400,000		250,000	350,000					1,000,000
Total	5,540,000	400,000	1,500,000	3,175,000	600,000		÷			11,215,000
									7	

		City of Lake Elmo	Elmo				, Ca Pla	pital Ir in and	mprov Debt !	Capital Improvement Plan and Debt Service
		Sanitary Sewer Fund	er Fund							
	Summary o	f Capital Impr	Summary of Capital Improvement Plan (CIP)	CIP)						
						City has not	City has not identified but does anticipate there will be future projects in years 2018-2021.	ntified but does anticipate th projects in years 2018-2021.	bate there w 3-2021.	ill be future
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
Segment 4: New lift station at Hudson & Keats, Connecting FM	,	900,000	,		1		,	x	а	000'006
Segment 6: Hudson Blvd lift station replacement, connecting FM to WONE	2		ı	1		300,000			a	300,000
Phase II: Easter 194 Corridor (Lake Elmo Ave. to Manning)	ţ	ı	ı	¢	ı.	ı.	c	r		¢
Option A: 27/30" trunk sewer extension from MCES connectoin										ï
Option B: 18/27" trunk sewer extension from MCES connection	700,000	500,000								1,200,000
Option B: Future lift statoin west of Lake Elmo Ave.		200,000								200,000
Phase IIIb: Village Area (East to Village Parkway)										
Village lift station and forcemain	3,800,000									3,800,000
Segment 1: Lake Elmo Ave & 30th St & 39th St			1,100,000							1,100,000
Segment 2: Village Parkway to TH5				600,000	600,000					1,200,000
Total	4,500,000	1,600,000	1,100,000	600,000	600,000	300,000		,	r	8,700,000
Funding Source for Sanitary Sewer Capital Projects										
Cash from Sewer Fund						300,000				300,000
Bond proceeds	3,500,000	1,200,000	1,100,000							5,800,000
Grants	1,000,000	ı	,	ŗ	r	۲	×		r	1,000,000
Intergovernmental	þ	5	ı	180,000	180,000		ì	a	,	360,000
Tax Increment/Developer Contribution (future IIF districts and development)	·	400,000		420,000	420,000	×		ж		1,240,000
Total	4,500,000	1,600,000	1,100,000	600,000	600,000	300,000	ı		ſ	8,700,000
									8	

Sum	of mem		water, sani	tary sewer, s	water, sanitary sewer, storm sewer runds	spun	1000 million - 1000 million				
		Future Deb	t Service and	d General Obl	Summary of Future Debt Service and General Obligation (G.O.) Revenue Bonds Outstanding	Revenue Bor	ids Outstandi	bu			
2013		2014	2015	2016	2017	2018	2019	2020	2021	Years 2022 to 2035	Total
DEBT SERVICE											
WATER UTILITY FUND GO Water Rev Bond 2005A	25	320.650	315 250	2	1	,		1			<u>035 075</u>
d 2002B)	580	52,480	51,280	49,880	53,680	52.128	55.575	53.850	51.925		474 478
			1	281,043	272,143	293,343	284,043	279,843	270,643	3,139,756	4,820,814
EST GO Water Rev 2013 Bonds FST GO Water Rev 2016 Ronds	958	125,958	125,778	125,568 41 250	125,313 341 250	337 350	164,623 232 850	163,573 229 350	167,383	4,121,230	5,340,378
Total 449,663	563	499,088	492,308	497,741	792,386	807,818	737,091	726,616	715,401	8,192,086	13,910,194
SANITARY SEWER UTILITY FUND FST GO Sewer Rev 2013 Bunds	285	186 285	185 685	184 985	184 135	183.085	181 835	180 335	278 625	υας νεν ε	5 035 545
		25.625	75,625	75.150	74 600	73.950	123 200	121 450	119 500	759 775	CHC,CCU,C
EST GO Sewer Rev 2015 Bonds		1	74,950	74,475	73,925	73,275	72,525	121,650	119,700	765,975	1,376,475
Total 86,285	285	211,910	336,260	334,610	332,660	330,310	377,560	423,435	467,835	4,960,030	7,860,895
Combined Lotal 535/948 DEBT OUTSTANDING	148	/ 10,998	828,568	832,351	1,125,046	1,138,128	1,114,651	1,150,051	1,183,236	13,152,116	21,771,089
WATER OUTSTANDING DEBT         4,695,000           As of 12/31/2012         3,630,000           Estimated Future Debt         3,530,000           Total         8,325,000		4,505,000 3,600,000 8,105,000	4,315,000 3,570,000 7,885,000	4,080,000 5,600,000 9,680,000	3,845,000 5,270,000 9,115,000	3,585,000 4,940,000 8,525,000	3,325,000 4,670,000 7,995,000	3,065,000 4,400,000 7,465,000	2,810,000 4,125,000 6,935,000	1 1 1	000
SANITARY SEWER OUTSTANDING DEBT	c	c	c	c	c		c	C	¢		
Estimated Future Debt 3,605,000	_	4,755,000	5,705,000	5,505,000	5,305,000	5,105,000	4,855,000	4,555,000	4,205,000		
		4,755,000	5,705,000	5,505,000	5,305,000	5,105,000	4,855,000	4,555,000	4,205,000		0
<u>STORM SEWER UTILITY FUND</u> No existing or anticipated oustanding debt											
UTSTANDING		000	0100000	000 107 17	000 000 1 1	000 000 01	000 010 01				
Combined Total 11,930,000		12,860,000 ]	13,590,000	15,185,000	14,420,000	13,630,000	12,850,000	12,020,000	11,140,000		0

rovement	bt Service
Capital Imp	lan and Del

# Analysis of Possible Future Estimated Debt Service Based on Capital Improvement Plan (CIP) **Estimated Future G.O. Water Revenue Bonds** City of Lake Elmo

(Terms shown including maturites and rates are for preliminary planning purposes only)

2013 G.O. Water Revenue Bonds

2016 G.O. Water Revenue Bonds

:	Outstanding	Balance	\$2,060,000				\$2,060,000	\$1,760,000	\$1,460,000	\$1,260,000	\$1,060,000	\$860,000	\$660,000	\$460,000	\$360,000	\$260,000	\$160,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0						
	Total Debt (	Service		\$0	\$0	\$0	\$41,250	\$341,250	\$337,350	\$232,850	\$229,350	\$225,450	\$221,250	\$216,750	\$112,050	\$109,600	\$107,050	\$164,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,338,600		\$2,000,000	\$60,000	\$2,060,000	0
		Interest					\$41,250	\$41,250	\$37,350	\$32,850	\$29,350	\$25,450	\$21,250	\$16,750	\$12,050	\$9,600	\$7,050	\$4,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$278,600					
Est -	Interest	Rates		0.80%	0.85%	0.95%	1.10%	1.30%	1.50%	1.75%	1.95%	2.10%	2.25%	2.35%	2.45%	2.55%	2.65%	2.75%	2.85%	2.95%	3.05%	3.15%	3.25%	3.35%	3.45%	3.55%		<u>f Funds:</u>		kounding		
		Principal		\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$100,000	\$100,000	\$100,000	\$160,000									\$2,060,000	Application of Funds:	Construction	Other Costs/Rounding	Total	
							Н	2	m	4	S	9	7	00	6	10	11	12	13	14	15	16	17	18	19	20			1000	10000		
		Year	Beg	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total					
:	Outstanding	Balance	\$3,630,000	\$3,630,000	\$3,600,000	\$3,570,000	\$3,540,000	\$3,510,000	\$3,480,000	\$3,410,000	\$3,340,000	\$3,265,000	\$3,115,000	\$2,965,000	\$2,815,000	\$2,665,000	\$2,515,000	\$2,365,000	\$2,165,000	\$1,965,000	\$1,765,000	\$1,390,000	\$1,015,000	\$640,000	\$315,000	\$0						
	Total Debt	Service		\$95,958	\$125,958	\$125,778	\$125,568	\$125,313	\$124,998	\$164,623	\$163,573	\$167,383	\$240,995	\$237,995	\$234,845	\$231,545	\$228,095	\$224,495	\$270,745	\$265,545	\$260,145	\$429,545	\$418,670	\$407,420	\$345,795	\$325,395	\$5,340,378		\$3,540,000	\$90,000	\$3,630,000	
		Interest		\$95,958	\$95,958	\$95,778	\$95,568	\$95,313	\$94,998	\$94,623	\$93,573	\$92,383	\$90,995	\$87,995	\$84,845	\$81,545	\$78,095	\$74,495	\$70,745	\$65,545	\$60,145	\$54,545	\$43,670	\$32,420	\$20,795	\$10,395	\$1,710,378					
EST.	Interest	Rates		0.55%	0.60%	0.70%	0.85%	1.05%	1.25%	1.50%	1.70%	1.85%	2.00%	2.10%	2.20%	2.30%	2.40%	2.50%	2.60%	2.70%	2.80%	2.90%	3.00%	3.10%	3.20%	3.30%		<u>ids:</u>		ding		
		Principal		\$0	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$70,000	\$70,000	\$75,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	\$200,000	\$200,000	\$375,000	\$375,000	\$375,000	\$325,000	\$315,000	\$3,630,000	Application of Funds:	Construction	Other Costs/Rounding	Total	
				Ч	2	ω	4	S	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23		A	Ű	0	Ť	
		Year	Beg	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total					

						Analysis (Ter	<b>of Possible Fut</b> ms shown inclu	Estimate .ure Estin ding matu	d Future G lated Debt irites and ra	.O. Sewer R Service Bas ites are for p	evenue Bonds ed on Capital i reliminary plan	mprovement P	lan (CIP)					
Follower Pitterer 2015 G. Server Revenue Bonds         Projected Future 2015 G. Server Revenue Bonds         VAI         Projected Future 2015 G. Server Revenue Bonds         Projected Future 2015 G. Server Revenue Bonds           filterer         interers													(yin					
$ \begin{array}{                                    $		Project	ed Future	2013 G.O. S	ewer Revenu	le Bonds		Proj	ected Futu	re 2014 G.C	. Sewer Reven	ue Bonds	YEAR	-	rojected F	uture 2015 G	.O. Sewer Rev	enue Bonds
$ \begin{array}{                                    $			Est						Est							Est		
Image         Image         Service         Balance         Principal         Bane         Principal			Interest			Dutstanding			Interes	tz		Outstanding			In	erest	Total Deb	
I         11 </th <th></th> <th>Principal</th> <th>Rates</th> <th>Interest</th> <th></th> <th>Balance</th> <th>Year</th> <th>Princip</th> <th></th> <th></th> <th>Service</th> <th>Balance</th> <th></th> <th>Pri</th> <th></th> <th></th> <th></th> <th>Balance</th>		Principal	Rates	Interest		Balance	Year	Princip			Service	Balance		Pri				Balance
1         0         0.058         \$66.26         5.60.00         2014         1         9         0.666         \$76.00         2014         1         9         0.666         \$76.00         2014         1         9         0.666         \$76.00         2014         1         9         0.666         \$76.00         2014         1         9         0.666         \$76.00         2014         1         9         0.666         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         2016         \$76.00         2016         \$76.00         2016         \$76.00         2016         2016         2016         2016         2016         2016         2016         2016         2016         2016         2016         2016         2016         2016         2016 <td< th=""><th></th><th></th><th></th><th></th><th></th><th>\$3,605,000</th><th>Beg</th><th></th><th></th><th></th><th></th><th>\$1,250,000</th><th>Beg</th><th></th><th></th><th></th><th></th><th>\$1,150,0</th></td<>						\$3,605,000	Beg					\$1,250,000	Beg					\$1,150,0
2         1         1         0         0.55         3.55         1.50000         0.56         8.63         1.86.63         3.445.00	~	1 \$0	0.55%	\$86,285	\$86,285	\$3,605,000	2013						2013		\$0	0.80%	\$	-
3         3	st L	2 \$100,000	0.60%	\$86,285	\$186,285	\$3,505,000 #2,40F,000	2014 1	1 erov				\$1,250,000	2014	- -	\$0			
5         50000         10%         53356         73300         10%         53356         73305 </td <td></td> <td></td> <td>0.70%</td> <td>584 985</td> <td>\$184 985</td> <td>\$3,305,000</td> <td>2016 3</td> <td>550.(</td> <td></td> <td></td> <td></td> <td>\$1.150.000</td> <td>2016</td> <td></td> <td>000.02</td> <td></td> <td></td> <td></td>			0.70%	584 985	\$184 985	\$3,305,000	2016 3	550.(				\$1.150.000	2016		000.02			
6         510000         10%         83,06%         51,0500         20%         57,3000         10%         52,325         52,325         53,320           7         510000         10%         873,335         510,300         175%         53,300         175%         53,300         175%         53,320         53,000         15%         52,325         51,325         51,325         51,325         51,326			1.05%	\$84,135	\$184,135	\$3,205,000						\$1,100,000	2017		50,000			
7         100000         10%         813.85         510.0000         17%         550.000         17%         52.255         57.255				\$83,085	\$183,085	\$3,105,000	2018 5	\$50,1				\$1,050,000	2018		50,000			
8         100000         170%         580,335         218,0335         219,000         127,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,450         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         210%         517,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         217,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560         216,560<	6	7 \$100,000		\$81,835	\$181,835	\$3,005,000						\$950,000	2019	5	50,000			
9         5150,000         155%         5736,000         2105         8,155,000         2105         8,155,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2105         8,156,000         2135         8,156,700         2135         <				\$80,335	\$180,335	\$2,905,000	2020	7 \$100,				\$850,000	2020		000'000			
10         100,000         200%         575,860         31,5560         2255         9         510,000         200%         575,860         5175,860         5175,860         5175,600         2256         517,400         555,000         2356         517,500         5175,000         2356         515,150         515,150         515,150         515,150         515,150         515,150         516,000         2566         515,500         2466         515,150         516,000         2566         515,500         2466         515,150         516,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,000         2566         515,050         515,000         2566         515,050         515,050         515,550         515,55				\$78,635	\$228,635	\$2,755,000						\$750,000	2021	7 \$.	000'000			
11         \$100,000         210%         \$73,860         \$173,860         \$255,5000         233%         \$15,150         \$550,000         235%         \$15,350				\$75,860	\$175,860	\$2,655,000	2022	\$100%				\$650,000	2022		000'00.			
12         \$100,000         2.0%         \$17,760         \$245,500         2.4%         \$12,800         \$245,800         \$245,500         \$245,500         \$245,800         \$248,810         \$210,800         \$245,800         \$246,800         \$246,800         \$246,800         \$246,800         \$246,800         \$246,800         \$246,800 <td></td> <td></td> <td></td> <td>\$73,860</td> <td>\$173,860</td> <td>\$2,555,000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$550,000</td> <td>2023</td> <td></td> <td>000'000</td> <td></td> <td></td> <td></td>				\$73,860	\$173,860	\$2,555,000						\$550,000	2023		000'000			
13         \$100,000         2.0%         \$69560         \$12,355,000         2.05%         \$10,550         \$105,500         \$105,50         \$10				\$71,760	\$171,760	\$2,455,000	2024 11	1 \$150,1				\$400,000			000'00			
14         100,000         240%         567,26         51,250,000         205         15         150,000         205         15         150,000         205         15         150,000         205         15         150,000         205         15         150,000         205         15         150,000         205         15         150,000         2075         15         150,000         2075         15         100,000         2075         15         100,000         2075         15         100,000         2075         15         100,000         2075         15         100,000         2075         100,000         2075         100         2075				\$69,560	\$169,560	\$2,355,000						\$250,000			50,000			
15       \$230,000       2.50%       \$64,860       \$314,860       \$2,005,000       2027       13       \$100,000       2.75%       \$27,50       \$100,750         16       \$220,000       2.60%       \$58,610       \$1755,000       2028       15       2.85%       \$0       \$0       \$0       \$0       \$0         17       \$220,000       2.60%       \$58,610       \$105,5000       2.028       16       2.95%       \$0<				\$67,260	\$167,260	\$2,255,000						\$50,000						
16         5250,000         2.60%         538,610         5175,000         2028         15         2.85%         50 <t< td=""><td></td><td></td><td>2.50%</td><td>\$64,860</td><td>\$314,860</td><td>\$2,005,000</td><td></td><td>54</td><td>2.75</td><td></td><td></td><td>\$50,000</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			2.50%	\$64,860	\$314,860	\$2,005,000		54	2.75			\$50,000						
17         S250,000         S72,110         \$1,505,000         2029         15         295%         50				\$58,610	\$308,610	\$1,755,000		10	2.85			\$50,000		4		2.85%		
18         5250,000         2,80%         545,360         5,155,000         203         1         3,05%         50 <th< td=""><td></td><td></td><td></td><td>\$52,110</td><td>\$302,110</td><td>\$1,505,000</td><td></td><td>10</td><td>2.95</td><td></td><td></td><td>\$50,000</td><td></td><td>5</td><td></td><td>2.95%</td><td></td><td></td></th<>				\$52,110	\$302,110	\$1,505,000		10	2.95			\$50,000		5		2.95%		
19         5300,000         2.90%         538,360         595,000         2.031         18         3.15%         50 <t< td=""><td></td><td></td><td></td><td>\$45,360</td><td>\$295,360</td><td>\$1,255,000</td><td></td><td>2</td><td>3.05</td><td></td><td></td><td>\$50,000</td><td></td><td>16</td><td></td><td>3.05%</td><td></td><td></td></t<>				\$45,360	\$295,360	\$1,255,000		2	3.05			\$50,000		16		3.05%		
20         530,000         3.0%         529,660         555,000         3.25%         50<				\$38,360	\$338,360	\$955,000		~	3.15			\$50,000		[]		3.15%		
21       \$30,000       3.10%       \$20,660       \$355,000       2033       20       \$30       \$0			3.00%	\$29,660	\$329,660	\$655,000		Ċ	3.25			\$50,000		8		3.25%		
22       \$355,000       3.20%       \$11,360       \$366,360       \$0       <				\$20,660	\$320,660	\$355,000		6	3.35			\$50,000		61		3.35%		
51,430,545     55,035,545     Total     \$1,200,000     \$248,875     \$1,448,875     Total     \$1,150,000     \$226,475       Application of Funds:       \$3,500,000     Construction     \$1,200,000     \$1,200,000     Construction     Construction       \$105,000     Other Costs/Rounding     \$50,000     Other Costs/Rounding     \$1,200,000       \$3,605,000     Total     \$1,250,000     Other Costs/Rounding     \$1,250,000				\$11,360	\$366,360	\$0			3.45			\$50,000		0		3.45%		
Application of Funds:         Application of Funds:           \$3,500,000         Construction         \$1,200,000           \$105,000         Other Costs/Rounding         \$50,000           \$3,605,000         Total         \$1,250,000		\$3,605,000	~1	\$1,430,545	\$5,035,545		Total	\$1,200,	000	\$248,875			Total	\$1,3	50,000	\$226,4	75 \$1,376,47	
\$3,500,000         Construction         \$1,200,000         Construction           \$105,000         Other Costs/Rounding         \$50,000         Other Costs/Rounding           \$3,605,000         Total         \$1,250,000         Total		<u>Application</u>	of Funds:					Applicat	ion of Fund	5:				App	ication of I	unds:		
\$105,000         Other Costs/Rounding         \$50,000         Other Costs/Rounding           \$3,605,000         Total         \$1,250,000         \$1		Construction	۲		\$3,500,000			Constru	ction		\$1,200,000			Con	struction		\$1,100,000	
53,605,000 Total 51,250,000 Total		Other Costs,	/Rounding		\$105,000			Other C	osts/Round	ing	\$50,000			Oth	er Costs/Ro	unding	\$50,000	
		Total			\$3,605,000			Total			\$1 250 000			Toto			61 1E0 001	

**Capital Improvement** 

													Capital Improvement
Anr	City of Lake Elmo Annual Estimated Debt Service Based on Future Bonding Plans in CIP and Estimated Structure and Future Rates (Includes Debt Supported by Water and Sewer Revenue Only)	rice Based cludes De	City ( d on Futu ebt Supp	City of Lake Elmo Future Bonding Supported by Wa	lmo ing Plans Water al	s in CIP a	and Esti er Reve	imated nue Or	Struct IJ)	ture an	q		
\$1,400,000			r 1										
\$1.200.000													
													The annual estimated debt service amounts shown in
													this chart include general
\$T,000,000													obligation water revenue bonds and general obliga-
								1990. H	1				
	R												The annual amounts in-
\$800,000													63
								i Sort					service (on outstanding
								C. E.C.					ed debt service on bonds
\$600,000													anticipated to be issued in
													future years and paid from
								e i dele					utility revenues. Future
\$400,000								Net					based on the City's capital
													improvement plan.
													This chart includes general
													obligation debt supported by utility revenue only and
									11/20				does not include existing
÷0\$													or future estimated general
2102	2072 9102 5072 707⊄ €103	6T0Z 8T0Z	7207 7070	2023 2053	202¢	9202	2028 2052	6202	5037 5030	5035	2033	5034 5034	oongauon geot mat is paig from property tax levy.
													12

										<b>Capital Improvement</b>
										Plan and Debt Service
			:	City of L	City of Lake Elmo					Over the next four years
	Est. Combii Compared	ned Outsta   to Estimat	inding G.C ted Future	). (Water ar Combined	Est. Combined Outstanding G.O. (Water and Sewer) Current and New Revenue Bonds Compared to Estimated Future Combined Cash Balances for Water and Sewer Funds	urrent and ces for Wat	New Reven er and Sew	ue Bonds er Funds		(from 2013 to 2016) the out- standing general obligation
	94									debt supported by water
16.000.000										and sewer revenues is pro-
										jected to increase each year.
										The City anticipates the is-
14 000 000										suance of debt to support
000,000,11										planned infrastructure ex-
										pansion projects. During
12,000,000										assumptions and informa-
										tion included in the study,
										the estimated annual cash
10,000,000		123								balance for the water and
•										sewer funds combined is
										estimated to increase each
										year. This is driven by the
000,000,0										estimate that annual reve-
										nue from new development
										will exceed the growth in
e,000,000										annual expense (including
										debt service expense).
										Current financial plan esti-
4,000,000										mates project that by year
										2021 the City will have
										the water and server funds
000,000,2										that is nearly equivalent to
										90% of the estimated out-
										standing debt obligations.
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actual future growth (de- velonment) will oreatly im-
		Total Est	: Outstandin	Total Est Outstanding Debt (Currentand New)	ntand New)	Est Cash Balance	Balance			pact these estimates.
										13

#### **Utility Rates**

### UTILITY RATES

#### Key Factors

To project future utility rates necessary to maintain the financial stability of the City's utility operations requires development and analysis of the following key factors:

- Estimates for future annual operating expenditures, including personnel, materials and supplies, cost of electricity, and other operating expenses.
- Metropolitan Council Environmental Service (MCES) sewer fee charged to the City by the Metropolitan Council for regional collection and treatment of waste water. This is an operating expense that the City does not have direct control over.
- <u>Annual capital expenditure</u> to maintain and improve the existing systems.
- <u>Annual debt service</u> on bonds issued to finance capital improvements.
- Growth in customers using and paying for the systems. Future growth will provide additional revenue but will also create additional demand for services.
- <u>Available other revenue sources</u> other than fees and charges to users of the water and sanitary sewer services.

# **Annual Operating Expenditures**

Costs incurred in operating the water and sewer systems, which are used up in the period in which acquired, are recorded as operating expenditures. Annual growth in operating expenditures, not including the MCES charge, has been modest. It is anticipated that growth in future years will be about 2 percent per year. Approximately a third of the operating expense (not including depreciation) is for personnel costs (labor) and the balance for materials, supplies, and other operating expense.

Depreciation is shown under operating expenditures and is the process of allocating the costs of an asset over its useful life in a systematic and rational manner. Depreciation is shown to remain constant over the financial planning horizon for the study. Estimate for future depreciation was not part of the study. It will be important for future updates to the financial plans to consider funding of depreciation and replacement of infrastructure.

# Metropolitan Council Environmental Services (MCES)

The MCES charge to cities for regional collection and treatment has been volatile in recent years. MCES has experienced revenue loss from the significant drop in regional development which has caused a corresponding decline in revenue collected by the Council for Sewer Availability Charges (a one time fee for new connections). For projection purposes, the study assumes that future charges paid to MCES for collection and treatment will increase by 2 percent annually. This is shown as an annual operating expense to the City's Sewer Fund which is paid from revenue collected from the City's utility customers.

### **Utility Rates**

# **Annual Capital Expenditures**

The City anticipates paying for future capital improvement project costs with a combination of revenue sources. The City anticipates future development will provide revenue to pay for utility expansion through the collection of trunk line availability fees and connection fees. The City may reduce the amount of planned bonding to pay for capital improvements to the extent cash from collection of these charges is available in the utility funds to do so. Paying for annual planned capital improvement projects with cash may be a sound strategy depending on the details of the project. It avoids incurring costs of issuance and annual interest expense. However, this strategy requires advance planning and implementation of utility fees and charges that provide adequate cash flow. For large (non-routine) capital expenditures or unanticipated capital expenditures, the use of bonding to fund capital minimizes annual rate increases that otherwise would be necessary. It also allows the City to charge future customers the cost of infrastructure with a longer useful life, versus putting the entire burden on today's customers. The City's CIP does anticipate bonding for certain project costs. The resulting annual debt service on the bonds is included in the financial plans.

#### **Debt Service**

Debt service in the Water and Sanitary Sewer Funds is paid from revenue collected from utility fees and availability and connection charges. Presently the City has debt outstanding in the Water Fund but does not report debt outstanding in the Sanitary Sewer or

Storm Water Funds. The CIP anticipates the City will issue debt in the next five years that will be supported by revenue collected in the Water Fund and Sanitary Sewer Fund. All current and future debt is accounted for in the financial plans that are included in this report. The estimated debt service is based on generally 20 years or less for bonds payable at estimated interest rates. Future estimated utility fees and charges reflect the cost of the estimated increase for debt service.

# **Growth in Customers**

Growth in customers from future land development is a major factor in determining the projections for future nection charges are one time charges collected at the utility rates. New development will bring an increase in revenue to the City's utility funds through the collection of availability and connection charges and fees collected for service. Availability charges and contime of development and building permit. Estimating the increase in future customers from growth in residential and commercial development is the most volatile factor in developing financial projections for in the Appendix Section, includes information on the assumed growth in residential equivalent connections nual growth in REC's was established by City staff and the utility funds. The last page of the report, page 35, ("REC") from future development. The projected anprovided to Northland for the study and report.

Growth in customers will allow the City to spread existing fixed costs, including overhead, over more units and volume. Growth in customers will allow the City to minimize future increases in utility fees that otherwise will be necessary.

#### **Utility Rates**

# **Available Other Revenues**

There is limited other revenues that provide a source of funding for utility services. The majority of the cost to operate and maintain the system is paid from fees and charges collected from those using the system. Other revenue includes interest income on cash balances, special assessments, grants, and rents.

# **Historical Utility Rates**

Information on historical rates is provided on page 18. This includes a summary of prior years approved utility rates for years 2007 - 2012. Rates shown are billed quarterly, with the exception of the storm water fee which is billed to customers receiving this charge on an annual basis. The City charges a basic service fee for water only.

# **Future Utility Rates**

Information on future projected utility rates for years 2013 to 2021 is provided on page 19. The projected future rates reflect the rates necessary to maintain adequate cash balances in the utility funds. These rates (applied against the estimated volumes on page 19) were used to calculate the annual estimated operating revenue that is shown in the financial plans for each fund.

The tier structure the City uses for charging customers for water, based on volume of water sold, was not reviewed as part of this study and report.

# **Connection and Trunk Line Availability Charges**

Water and Sewer connection charges are estimated to be collected at time of building permit. The charges are to cover the cost of constructing and maintaining the utility systems.

The City presently does not have a connection charge for sanitary sewer. A charge is included for future years beginning with a rate of \$1,000 in year 2013 and inflated annually at 3-percent; this rate is necessary to maintain sufficient revenue to pay for debt service on capital projects. This is reflected in the revenue shown in the financial plans for the Sanitary Sewer Fund. In addition, the report and financial plans are based on the City increasing the amount it charges for connection to municipal water to a level needed to fund infrastructure expansion. The amount is shown at \$1,000 for year 2013, which is an increase from the \$140 presently charged. This amount is shown to increase annually by 3-percent. Water and Sewer Trunk Line Availability Charges are estimated to be collected at time of development of property (with the development contract). The charge is necessary to pay for the cost of constructing and maintaing the trunk lines and related infrastructure of the systems. Beginning with year 2013, the following is estimated for development related charges for one residential equivalent connection (REC) unit:

# Projected Volume of Water Sold and Sanitary Sewer Billed

Annual estimated volume of water sold by tier and estimated sanitary sewer billed by year is included on

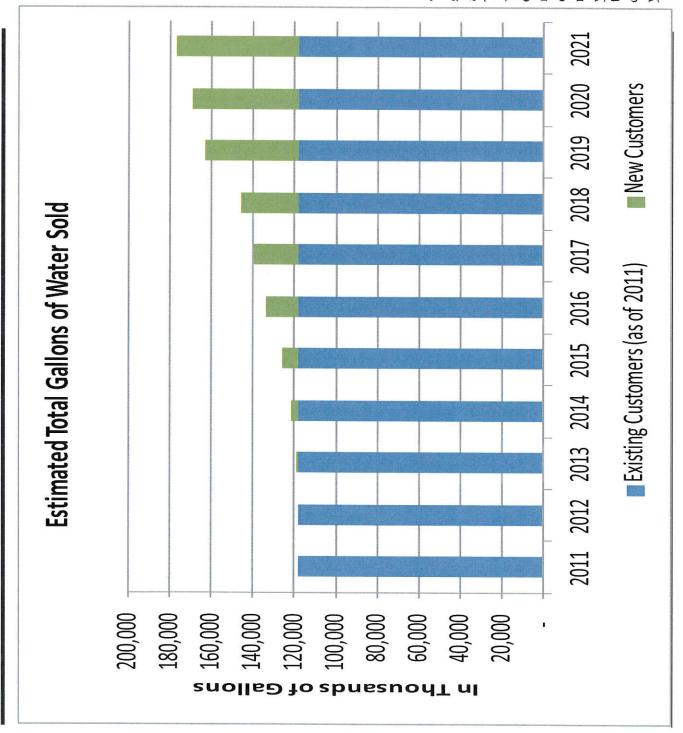
page 20. The chart on page 21 provides a break-down of the increase in volume of water sold comparing the estimated amount sold by year to existing customers, which is based on 2011 volumes, to the estimated amount that is attributed to growth in the customer base from future projected development. Information on the projected increase in residential equivalent connections (REC) by year is provided on page 35, the last page of the report.

2007         2008         2009         2010         2011 <th< th=""><th>City o Fee Sched</th><th>City of Lake Elmo Fee Schedule for Prior Years</th><th></th><th></th><th>I</th><th>Utility Rates</th><th>tes</th></th<>	City o Fee Sched	City of Lake Elmo Fee Schedule for Prior Years			I	Utility Rates	tes
223.50         52.500         52.500         52.500         52.500         50.00           50.00         50.00         50.00         50.00         50.00         50.00           51.80         52.05         52.115         52.10         52.50         52.14           51.80         52.05         52.15         52.10         52.14           51.80         52.05         52.15         53.70         53.70           51.80         52.05         52.15         53.70         52.66           51.80         52.05         52.15         54.90         55.00           52.75         53.70         53.20         56.50         55.00           52.75         53.00         53.10         53.20         55.00           52.75         53.00         53.10         53.20         55.00           52.75         53.00         53.10         53.20         53.25           52.75         53.00         53.10         53.20         55.00           52.75         53.00         53.00         53.00         50.00           52.75         53.00         53.00         53.00         50.00           52.75         53.00         53.00         53.		2007	2008	2009	2010		12 Budget
23350         53375         52500         52500         5000	WATER AND SEWER SERVICE						
22350         22375         22500         22500         22500           5000         5000         5000         5000         5000         5000           51180         5205         5215         5210         5250         5214           51180         5205         5215         5215         5200         5000           51180         5205         5215         5370         5250         5250           5275         5377         54490         5663         5216         5250           5275         5370         5310         5335         5550         5500           5275         5330         5310         5335         5530         5331           5275         5330         5310         53.05         5500         5500           5275         5330         5310         53.05         5500         5500           5275         5330         5310         53.05         5500         5500           5275         5300         53.05         53.05         5500         5500           5275         53.00         53.05         53.05         5500         5500           5275         53.00         53.05         <	Residential						
5000         5000 <th< td=""><td>Water Basic Service fee (per meter or per unit/qtr)</td><td>\$23.50</td><td>\$23.75</td><td>\$25.00</td><td>\$25.00</td><td>\$25.00</td><td>\$25.00</td></th<>	Water Basic Service fee (per meter or per unit/qtr)	\$23.50	\$23.75	\$25.00	\$25.00	\$25.00	\$25.00
\$180       \$205       \$215       \$210       \$214         \$180       \$205       \$215       \$220       \$235         \$180       \$205       \$215       \$237       \$237         \$180       \$205       \$215       \$237       \$237         \$180       \$205       \$215       \$537       \$500         \$180       \$205       \$215       \$500       \$500         \$218       \$205       \$516       \$516       \$500         \$200       \$000       \$000       \$000       \$500       \$500         \$2350       \$2337       \$2310       \$130       \$311       \$2350         \$200       \$000       \$300       \$310       \$310       \$325         \$2350       \$3300       \$310       \$310       \$325       \$450         \$275       \$300       \$310       \$310       \$370       \$337         \$275       \$300       \$310       \$310       \$370       \$337         \$275       \$300       \$310       \$310       \$370       \$337         \$275       \$300       \$310       \$310       \$300       \$300         \$275       \$300       \$310       \$413	Sewer Basic Service fee (per meter or per unit/qtr)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$1280     \$2.05     \$2.15     \$2.14       \$1.80     \$2.05     \$2.15     \$2.30     \$2.36       \$1.80     \$2.05     \$2.15     \$2.38     \$2.36       \$1.80     \$2.05     \$2.15     \$2.36     \$2.36       \$1.80     \$2.05     \$2.15     \$2.37     \$2.36     \$2.36       \$1.80     \$2.05     \$2.15     \$2.37     \$4.90     \$5.00       \$2355     \$2.375     \$2.375     \$2.370     \$55.00     \$55.00       \$2355     \$2.375     \$3.300     \$3.10     \$5.30     \$3.11       \$2275     \$3.00     \$3.10     \$3.10     \$3.05     \$3.11       \$2775     \$3.300     \$3.10     \$3.10     \$3.75     \$3.75       \$2775     \$3.300     \$3.10     \$3.70     \$3.75       \$2775     \$3.300     \$3.10     \$3.70     \$3.77       \$2775     \$3.300     \$3.10     \$3.70     \$3.70       \$2775     \$3.300     \$3.10     \$3.70     \$3.77       \$2775     \$3.300     \$3.10     \$3.70     \$3.70       \$2775     \$3.300     \$3.10     \$3.70     \$3.70       \$2775     \$3.300     \$3.10     \$3.70     \$3.70       \$2100     \$3.000     \$3.000 <td>Water (per meter or per unit per 1,000 gallons):</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Water (per meter or per unit per 1,000 gallons):						
51.80     \$2.05     \$2.15     \$2.80     \$2.86       51.80     \$2.05     \$2.15     \$2.80     \$2.86       51.80     \$2.05     \$2.15     \$4.35     \$4.50       51.80     \$2.05     \$2.15     \$5.70     \$5.70       51.80     \$2.05     \$2.15     \$5.70     \$5.70       51.80     \$2.05     \$2.15     \$5.70     \$5.70       51.80     \$2.05     \$5.15     \$4.35     \$4.50       \$2.75     \$3.00     \$5.00     \$0.00     \$0.00       \$2.75     \$3.00     \$3.10     \$3.10     \$3.15       \$2.75     \$3.00     \$3.10     \$3.10     \$3.25       \$2.75     \$3.00     \$3.10     \$3.10     \$3.26       \$2.75     \$3.00     \$3.10     \$3.10     \$3.77       \$2.75     \$3.00     \$3.10     \$3.26     \$3.26       \$2.75     \$3.00     \$3.10     \$3.70     \$3.77       \$2.75     \$3.00     \$3.10     \$3.70     \$3.77       \$2.75     \$3.00     \$3.10     \$3.70     \$3.77       \$2.75     \$3.71     \$4.08     \$4.35     \$4.50       \$3.000     \$3.000     \$3.000     \$3.000     \$5.000       \$1.40     \$1.75     \$1.30<	Tier 1: Water usage per first 15,000 gallons	\$1.80	\$2.05	\$2.15	\$2.10	\$2.14	\$2.14
51.80     \$2.05     \$2.15     \$3.70     \$3.77       51.80     \$2.05     \$2.15     \$4.90     \$5.00       51.80     \$2.05     \$2.15     \$4.90     \$5.00       51.80     \$2.05     \$2.15     \$5.50     \$5.50     \$5.50       52.75     \$3.71     \$4.08     \$4.50     \$5.00       \$2.75     \$3.00     \$0.00     \$0.00     \$0.00     \$0.00       \$2.75     \$3.30     \$3.10     \$3.35     \$3.11       \$2.75     \$3.30     \$3.10     \$3.35     \$3.11       \$2.75     \$3.00     \$3.10     \$3.25     \$3.26       \$2.75     \$3.00     \$3.10     \$3.10     \$3.26       \$2.75     \$3.00     \$3.10     \$3.10     \$3.26       \$2.75     \$3.00     \$3.10     \$3.10     \$3.26       \$2.75     \$3.00     \$3.10     \$3.20     \$3.00       \$2.75     \$3.00     \$3.00     \$3.00     \$3.00       \$2.75     \$3.00     \$3.00     \$3.00     \$4.35       \$2.75     \$3.00     \$3.00     \$3.00     \$4.35       \$3.00     \$3.00     \$3.00     \$3.00     \$4.35       \$4.35     \$4.35     \$4.35     \$4.50       \$1.40     \$1.40	Tier 2: Water usage +15,000 gallons to 30,000 gallons	\$1.80	\$2.05	\$2.15	\$2.80	\$2.86	\$2.86
\$1.80       \$2.05       \$2.15       \$4.90       \$5.00         \$2.75       \$3.71       \$4.08       \$6.50       \$6.63         \$2.82       \$3.71       \$4.08       \$6.50       \$5.00         \$2.82       \$3.71       \$4.08       \$6.50       \$5.00         \$2.82       \$3.00       \$0.00       \$0.00       \$0.00       \$0.00         \$2.75       \$3.00       \$3.10       \$3.05       \$3.11         \$2.75       \$3.00       \$3.10       \$3.05       \$3.11         \$2.75       \$3.00       \$3.10       \$3.10       \$3.05       \$3.11         \$2.75       \$3.00       \$3.10       \$3.10       \$3.05       \$3.00         \$2.75       \$3.00       \$3.10       \$3.10       \$3.05       \$4.50         \$2.75       \$3.00       \$3.10       \$3.10       \$5.00       \$5.00         \$2.75       \$3.00       \$3.10       \$4.35       \$4.50       \$5.00         \$2.75       \$3.00       \$3.00       \$5.00       \$5.00       \$5.00         \$3.00       \$3.00       \$3.00       \$5.00       \$5.00       \$5.00         \$3.00       \$3.00       \$3.00       \$5.00       \$5.00       \$5.00<	Tier 3: Water usage +30,000 gallons to 50,000 gallons	\$1.80	\$2.05	\$2.15	\$3.70	\$3.77	\$3.77
\$1.80       \$2.15       \$2.15       \$2.15       \$2.50       \$2.50       \$5.50       \$5.50         \$2.75       \$3.71       \$4.08       \$4.35       \$4.50       \$5.50       \$	Tier 4: Water usage +50,000 gallons to 80,000 gallons	\$1.80	\$2.05	\$2.15	\$4.90	\$5.00	\$5.00
\$2350       \$23.75       \$25.00       \$25.00       \$25.00       \$25.00       \$25.00       \$25.00       \$0.00         \$2000       \$0.00       \$0.00       \$0.00       \$0.00       \$0.00       \$0.00         \$275       \$3.00       \$3.10       \$3.10       \$3.25       \$3.25       \$3.00       \$0.00         \$275       \$3.00       \$3.10       \$3.10       \$3.10       \$3.25       \$3.00         \$275       \$3.00       \$3.10       \$3.10       \$3.70       \$3.70       \$3.77         \$275       \$3.00       \$3.10       \$3.10       \$3.70       \$3.70       \$3.77         \$275       \$3.00       \$3.00       \$3.00       \$3.10       \$4.00       \$5.00         \$3000       \$30.00       \$30.00       \$3.00       \$3.70       \$4.35       \$4.45         \$3000       \$30.00       \$30.00       \$3.00       \$5.00       \$4.00       \$5.00         \$3000       \$30.00       \$30.00       \$3.00       \$5.00       \$4.30       \$5.000         \$3000       \$30.00       \$3.00       \$3.00       \$5.00       \$4.00       \$5.000         \$4       \$4       \$4.35       \$4.30       \$4.30       \$6.50	Ther 5: Water usage +80,000 gallons Sevver (nor 1 000 nallons)	\$1.80 \$2.75	20.24 71 53	51.2 <b>\$</b>	\$6.50 54 35	\$0.63 \$4 50	\$6.63 \$4 50
\$2350       \$23.75       \$25.00       \$25.00       \$25.00       \$25.00         \$2050       \$0.00       \$0.00       \$0.00       \$0.00       \$0.00         \$275       \$3.00       \$3.10       \$3.15       \$3.11         \$275       \$3.00       \$3.10       \$3.25       \$3.11         \$275       \$3.00       \$3.10       \$3.25       \$3.20         \$2.75       \$3.00       \$3.10       \$3.25       \$3.20         \$2.75       \$3.00       \$3.10       \$3.20       \$3.10         \$2.75       \$3.00       \$3.10       \$3.20       \$3.20         \$2.75       \$3.00       \$3.00       \$3.00       \$3.00       \$3.00         \$2.75       \$3.00       \$3.00       \$3.00       \$4.00       \$50.00         \$30.00       \$30.00       \$35.00       \$4.00       \$50.00         \$30.00       \$30.00       \$33.00       \$4.100       \$50.00         \$10       \$10       \$10       \$4.35       \$4.50         \$2       \$10       \$10       \$100       \$50.00         \$10       \$10       \$10       \$10       \$10         \$10       \$10       \$10       \$10       \$10 <td></td> <td>1</td> <td>1</td> <td>0</td> <td></td> <td></td> <td>0</td>		1	1	0			0
\$2350       \$23.75       \$25.00       \$25.00       \$25.00       \$25.00       \$25.00       \$25.00       \$25.00       \$20.00       \$0.00	Commercial and Industrial						
\$0.00     \$0.00     \$0.00     \$0.00     \$0.00     \$0.00       \$2.75     \$3.00     \$3.10     \$3.10     \$3.25     \$3.11       \$2.75     \$3.00     \$3.10     \$3.10     \$3.25     \$3.26       \$2.75     \$3.00     \$3.10     \$3.10     \$5.00     \$5.00       \$2.75     \$3.00     \$3.10     \$3.10     \$5.00     \$5.00       \$2.75     \$3.00     \$3.10     \$4.90     \$5.00       \$2.75     \$3.00     \$3.10     \$4.00     \$5.00       \$2.75     \$3.00     \$3.10     \$4.00     \$5.00       \$2.75     \$3.00     \$3.10     \$4.00     \$5.00       \$2.75     \$3.00     \$3.00     \$3.300     \$40.00     \$50.00       \$30.00     \$30.00     \$33.00     \$33.00     \$40.00     \$50.00       \$30.00     \$30.00     \$33.00     \$33.00     \$40.00     \$50.00       \$4.0     \$4.00     \$4.00     \$4.00     \$4.10     \$4.10       \$50.00     \$30.00     \$33.00     \$30.00     \$40.00     \$50.00       \$50.00     \$30.00     \$33.00     \$40.00     \$50.00     \$50.00       \$60     \$0     \$0     \$0     \$0     \$0       \$140     \$1140	Water Basic Service fee (per meter or per unit/qtr)	\$23.50	\$23.75	\$25.00	\$25.00	\$25.00	\$25.00
\$2.75       \$3.00       \$3.10       \$3.05       \$3.11         \$2.75       \$3.00       \$3.10       \$3.20       \$3.25         \$2.75       \$3.00       \$3.10       \$3.20       \$3.27         \$2.75       \$3.00       \$3.10       \$3.10       \$5.00         \$2.75       \$3.00       \$3.10       \$4.30       \$5.00         \$2.75       \$3.00       \$3.10       \$4.30       \$5.00         \$2.75       \$3.00       \$3.00       \$3.10       \$6.50       \$5.00         \$2.75       \$3.00       \$3.00       \$3.10       \$6.50       \$5.00         \$30.00       \$30.00       \$30.00       \$3.10       \$6.50       \$6.50         \$30.00       \$30.00       \$30.00       \$53.00       \$4.00       \$5.000         \$30.00       \$30.00       \$30.00       \$50.00       \$6.00       \$6.00         \$30.00       \$30.00       \$30.00       \$50.00       \$6.00       \$6.00         \$50.00       \$4.00       \$6.00       \$6.00       \$6.00       \$6.00         \$50.00       \$50.00       \$6.00       \$6.00       \$6.00       \$6.00         \$50.00       \$50.00       \$6.00       \$6.00       \$6.00<	Sewer Basic Service fee (per meter or per unit/qtr)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$2.75       \$3.00       \$3.10       \$3.05       \$3.11         \$2.75       \$3.00       \$3.10       \$3.25       \$3.26         \$2.75       \$3.00       \$3.10       \$3.20       \$3.26         \$2.75       \$3.00       \$3.10       \$3.20       \$3.10         \$2.75       \$3.00       \$3.10       \$3.20       \$3.10         \$2.75       \$3.00       \$3.10       \$4.35       \$4.50         \$2.75       \$3.00       \$3.00       \$3.10       \$50.00         \$2.00       \$3.00       \$3.00       \$3.10       \$50.00         \$30.00       \$30.00       \$3.00       \$3.00       \$4.00       \$50.00         \$30.00       \$30.00       \$30.00       \$30.00       \$40.00       \$50.00         \$40       \$1.00       \$50.00       \$50.00       \$50.00       \$50.00         \$40       \$1.00       \$50.00       \$50.00       \$50.00       \$50.00         \$50       \$50.00       \$50.00       \$50.00       \$50.00       \$50.00         \$140       \$1.00       \$50.00       \$50.00       \$50.00       \$50.00         \$140       \$1.10       \$1.10       \$1.00       \$50.00       \$50.00      <	Water (per meter or per unit per 1,000 gallons):						
\$2.75       \$3.00       \$3.10       \$3.20       \$3.26         \$2.75       \$3.00       \$3.10       \$3.20       \$3.26         \$2.75       \$3.00       \$3.10       \$3.20       \$3.26         \$2.75       \$3.00       \$3.10       \$4.90       \$5.00         \$2.75       \$3.00       \$3.10       \$4.90       \$5.00         \$2.75       \$3.00       \$3.00       \$3.10       \$4.50       \$5.00         \$2.75       \$3.00       \$3.00       \$3.00       \$5.00       \$6.63         \$2.75       \$3.00       \$30.00       \$3.00       \$5.00       \$6.63         \$30.00       \$30.00       \$30.00       \$30.00       \$5.00       \$6.63         \$30.00       \$30.00       \$30.00       \$5.00       \$6.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00       \$6.63         \$6       \$0       \$0       \$0       \$0       \$0       \$0         \$140       \$1140       \$1140       \$1140       \$140       \$140       \$140         \$140       \$1175       \$130       \$140       \$140       \$140         \$140       \$1140       \$1140       \$1	Tier 1: Water usage per first 10,000 gallons	\$2.75	\$3.00	\$3.10	\$3.05	\$3.11	\$3.11
\$2.75       \$3.00       \$3.10       \$3.70       \$3.70         \$2.75       \$3.00       \$3.10       \$4.90       \$5.00         \$2.75       \$3.00       \$3.10       \$4.90       \$5.00         \$2.75       \$3.00       \$3.10       \$4.35       \$4.50         \$2.75       \$3.00       \$3.10       \$4.35       \$4.50         \$2.75       \$3.00       \$3.00       \$3.10       \$50.00         \$30.00       \$30.00       \$3.500       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$10       \$10       \$10       \$10       \$10         \$10       \$10       \$10       \$10       \$10         \$140       \$114       \$114       \$140       \$140         \$140       \$114       \$114       \$140       \$140         \$140       \$114       \$114       \$140       \$140         \$140       \$114       \$114       \$140       \$140         \$2.150       \$2.150       \$2.150	Tier 2: Water usage +10,000 gallons to 25,000 gallons	\$2.75	\$3.00	\$3.10	\$3.20	\$3.26	\$3.26
\$2.75       \$3.00       \$3.10       \$4.90       \$5.00         \$2.75       \$3.00       \$3.10       \$4.90       \$5.00         \$2.75       \$3.00       \$3.10       \$4.35       \$6.63         \$2.75       \$3.00       \$3.10       \$4.35       \$5.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$10       \$10       \$10       \$10       \$10         \$10       \$10       \$10       \$100       \$100         \$10       \$10       \$10       \$100       \$100         \$10       \$110       \$113       \$140       \$140         \$140       \$113       \$113       \$140       \$140         \$140       \$113       \$113       \$140       \$140         \$140       \$113       \$114       \$140       \$140         \$140       \$130       \$130       \$140       \$140         \$150       \$2,150       \$2,150 <td< td=""><td>Tier 3: Water usage +25,000 gallons</td><td>\$2.75</td><td>\$3.00</td><td>\$3.10</td><td>\$3.70</td><td>\$3.77</td><td>\$3.77</td></td<>	Tier 3: Water usage +25,000 gallons	\$2.75	\$3.00	\$3.10	\$3.70	\$3.77	\$3.77
\$2.75       \$3.00       \$3.10       \$6.50       \$6.63         \$2.75       \$3.71       \$4.08       \$4.35       \$4.50         \$30.00       \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$10       \$50.00       \$35.00       \$40.00       \$50.00         \$10       \$10       \$10       \$10       \$140       \$10         \$10       \$10       \$10       \$10       \$10       \$10         \$11       \$11       \$11       \$11       \$11       \$140       \$140         \$114       \$117       \$130       \$140       \$140       \$140         \$140       \$117       \$130       \$140       \$140       \$140         \$140       \$117       \$130       \$140       \$140       \$140         \$140       \$117       \$130       \$140       \$140       \$140         \$140       \$117       \$130       \$140       \$140       \$140 <t< td=""><td>Tier 4: Water usage +29,000 gallons to next Tier</td><td>\$2.75</td><td>\$3.00</td><td>\$3.10</td><td>\$4.90</td><td>\$5.00</td><td>\$5.00</td></t<>	Tier 4: Water usage +29,000 gallons to next Tier	\$2.75	\$3.00	\$3.10	\$4.90	\$5.00	\$5.00
\$2.75       \$3.71       \$4.08       \$4.35       \$4.50         \$30.00       \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$50       \$0       \$0       \$50       \$40.00       \$50.00         \$50       \$50.00       \$33.00       \$35.00       \$40.00       \$50.00         \$60       \$0       \$0       \$0       \$0       \$0       \$0         \$140       \$175       \$130       \$140       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$5150       \$2,150       \$3,500       \$3,500       \$3,500         \$53,675       \$3,675       \$3,675       \$3,500       \$3,500         \$800       \$800       \$800       \$800       \$800       \$800	Tier 5: Water usage +36,000 gallons to next Tier	\$2.75	\$3.00	\$3.10	\$6.50	\$6.63	\$6.63
\$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$0       \$0       \$0       \$35.00       \$40.00       \$50.00         \$10       \$30.00       \$35.00       \$40.00       \$50.00       \$50.00         \$0       \$0       \$0       \$0       \$30.00       \$35.00       \$40.00       \$50.00         \$10       \$10       \$10       \$10       \$10       \$10       \$10       \$10         \$275       \$275       \$285       \$2300       \$140       \$140       \$140         \$140       \$1175       \$1130       \$140       \$140       \$140         \$140       \$1175       \$130       \$140       \$140         \$5,500       \$5,500       \$3,500       \$3,500       \$3,500         \$5,675       \$3,675       \$3,500       \$3,500       \$3,500         \$800       \$800       \$800       \$800       \$800       \$800	Sewer (per 1,000 gallons)	\$2.75	\$3.71	\$4.08	\$4.35	\$4.50	\$4.50
\$3000       \$3000       \$35.00       \$40.00       \$50.00         \$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$0       \$0       \$0       \$10       \$50.00       \$50.00         \$0       \$0       \$0       \$10       \$50.00       \$50.00       \$50.00         \$10       \$20.00       \$30.00       \$35.00       \$40.00       \$50.00       \$50.00         \$10       \$10       \$10       \$10       \$10       \$10       \$50.00       \$50.00         \$140       \$175       \$130       \$140       \$140       \$140       \$140       \$140         \$140       \$175       \$130       \$130       \$140       \$140       \$140       \$140         \$140       \$175       \$130       \$130       \$140       \$140       \$140         \$5,500       \$5,500       \$5,500       \$5,300       \$5,300       \$5,230       \$5,230         \$800       \$800       \$800       \$800       \$800       \$800       \$800       \$800							
\$30.00       \$30.00       \$35.00       \$40.00       \$50.00         \$0       \$0       \$0       \$0       \$0       \$0         \$10       \$20       \$0       \$0       \$0       \$0       \$0         \$275       \$275       \$285       \$300       \$300       \$300         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$3,500       \$3,500       \$3,500       \$3,500       \$2,150       \$2,150         \$800       \$800       \$800       \$800       \$800       \$800       \$800	Residential (flat fee charged annually)	\$30.00	\$30.00	\$35.00	\$40.00	\$50.00	\$50.00
\$0       \$0       \$0       \$0       \$0       \$0         \$0       \$0       \$0       \$0       \$0       \$0       \$0         \$275       \$275       \$275       \$285       \$300       \$300         \$140       \$175       \$130       \$140       \$140       \$140         \$3,500       \$3,500       \$3,500       \$3,300       \$3,500       \$3,500         \$3,675       \$2,150       \$2,150       \$2,150       \$2,150       \$2,150       \$2,150       \$2,150       \$2,3900         \$800       \$800       \$800       \$800       \$800       \$800       \$800       \$800	ually based on equival	\$30.00	\$30.00	\$35.00	\$40.00	\$50.00	\$50.00
\$0       \$0       \$0       \$0       \$0       \$0         \$0       \$0       \$0       \$0       \$0       \$0       \$0         \$275       \$275       \$275       \$285       \$300       \$300       \$300         \$140       \$175       \$130       \$140       \$140       \$140       \$140         \$140       \$175       \$130       \$140       \$140       \$140       \$140         \$140       \$175       \$130       \$140       \$140       \$140       \$140         \$140       \$175       \$130       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500         \$3,675       \$2,150       \$2,150       \$2,150       \$2,150       \$2,230       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$3,500       \$8							
\$0     \$0     \$0     \$0     \$0       \$0     \$0     \$0     \$0     \$0       \$275     \$275     \$285     \$300     \$300       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$3,500     \$3,500     \$3,500     \$3,500     \$3,500       \$3,675     \$2,150     \$2,150     \$2,150     \$2,230       \$800     \$800     \$800     \$800     \$800	SEWER CONNECTION CHARGES (collected with permit)						
50     50     50     50     50     50       \$275     \$275     \$285     \$300     \$300       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$140     \$175     \$130     \$140     \$140       \$3,500     \$3,500     \$3,500     \$3,500     \$3,500       \$3,500     \$3,500     \$3,500     \$3,500     \$3,500       \$800     \$800     \$800     \$800     \$800     \$800	Single family, duplex, townhouse, mobile home (per unit)	\$0	\$0	\$0	\$0	\$0	\$0
\$275       \$275       \$285       \$300       \$300         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$150       \$175       \$130       \$140       \$140         \$5,500       \$3,500       \$3,500       \$3,500       \$3,500         \$3,500       \$3,500       \$3,500       \$3,500       \$3,500         \$2,150       \$2,150       \$2,150       \$2,150       \$2,230         \$3,675       \$3,675       \$3,675       \$3,900       \$3,900         \$800       \$800       \$800       \$800       \$800       \$800	Comm/industrial, churches, schools, hospitals, nursing homes (per unit)	\$0	\$0	\$0	\$0	\$0	\$0
\$275       \$275       \$285       \$300       \$300         \$140       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$150       \$175       \$130       \$140       \$140         \$140       \$175       \$130       \$140       \$140         \$150       \$175       \$130       \$140       \$140         \$3,500       \$3,500       \$3,300       \$3,500       \$3,500         \$2,150       \$2,150       \$2,150       \$2,150       \$2,150       \$2,300         \$800       \$800       \$800       \$800       \$800       \$800       \$3,600	WATER CONNECTION CHARGES (collected with permit)						
\$140 \$175 \$130 \$140 \$140 \$140 \$175 \$130 \$140 \$140 \$140 \$140 \$3,500 \$3,500 \$3,300 \$3,500 \$2,150 \$2,150 \$2,150 \$2,230 \$3,675 \$3,675 \$3,570 \$3,900 \$800 \$800 \$800 \$3,900	Meter	\$275	\$275	\$285	\$300	\$300	\$300
\$140 \$175 \$130 \$140 \$140 \$140 \$140 \$140 \$140 \$140 \$14	Single family, duplex, townhouse, mobile home (per unit)	\$140	\$175	\$130	\$140	\$140	\$140
\$3,500 \$3,500 \$3,500 \$3,500 \$3,500 \$2,150 \$2,150 \$2,150 \$2,230 \$3,675 \$3,675 \$3,500 \$3,900 \$800 \$800 \$800 \$800	Comm/industrial, churches, schools, hospitals, nursing homes (per unit)	\$140	\$175	\$130	\$140	\$140	\$140
\$3,500 \$3,500 \$3,500 \$3,300 \$3,500 \$2,150 \$2,150 \$2,150 \$2,230 \$3,675 \$3,675 \$3,675 \$3,900 \$800 \$800 \$800 <b>18</b>	TRUNK LINE AVAILABILITY CHARGES (collected at time of development)						
t) \$2,150 \$2,150 \$2,150 \$2,150 \$2,150 \$2,230 development per unit \$3,675 \$3,675 \$3,675 \$3,900 \$3,900 ng structures within Old Village \$800 \$800 \$800 \$800 \$800 \$800 \$800 \$80	Sewer availability charge per unit	\$3.500	\$3.500	\$3.500	\$3.300	\$3.500	\$3,500
\$3,675 \$3,675 \$3,675 \$3,900 \$3,900 \$800 \$800 \$800 \$800 \$800 <b>13</b>	MCES connection charae (per unit)	\$2,150	\$2,150	\$2,150	\$2,150	\$2,230	\$2,230
\$800 \$800 \$800 \$800 \$800 <b>\$</b> 800 <b>18</b>	Water availability charge for new development per unit	\$3,675	\$3,675	\$3,675	\$3,900	\$3,900	\$3,900
	Water availability charge for existing structures within Old Village	\$800	\$800	\$800	\$800	\$800	\$800
					1	10	

								Utilit	Utility Rates	S
Fe	City of Lake Elmo Fee Schedule Estimated for Future Years	ake Elmo ted for Futu	ure Years							
	Annual % Incr Beg Yr 2013	2013	2014	2015	2016	2017	2018	2019	2020	2021
WATER AND SEWER SERVICE										
Residential	700 c	47E 7C		CC 7C4	11001	¢70.00	¢ JO OF		63 FC4	
water basic service ree (per meter of per unit/qu/) Sewer Basic Senvice fee (ner meter or ner unit/otr)	3.0%	c/.c7¢	20.02¢	26.12¢	\$0.00	\$0.00	C0.624	\$0.00	10.12¢	\$0.00
Water (per meter or per unit per 1,000 gallons):	1					) ) +		2		
Tier 1: Water usage per first 15,000 gallons	3.0%	\$2.20	\$2.27	\$2.34	\$2.41	\$2.48	\$2.56	\$2.63	\$2.71	\$2.79
Tier 2: Water usage +15,000 gallons to 30,000 gallons	3.0%	\$2.95	\$3.03	\$3.13	\$3.22	\$3.32	\$3.41	\$3.52	\$3.62	\$3.73
Tier 3: Water usage +30,000 gallons to 50,000 gallons	3.0%	\$3.88	\$4.00	\$4.12	\$4.24	\$4.37	\$4.50	\$4.64	\$4.78	\$4.92
Tier 4: Water usage +50,000 gallons to 80,000 gallons	3.0%	\$5.15	\$5.30	\$5.46	\$5.63	\$5.80	\$5.97	\$6.15	\$6.33	\$6.52
Tier 5: Water usage +80,000 gallons	3.0%	\$6.83	\$7.03	\$7.24	\$7.46	\$7.69	\$7.92	\$8.15	\$8.40	\$8.65
Sewer (per 1,000 gallons)	3.0%	\$4.64	\$4.77	\$4.92	\$5.06	\$5.22	\$5.37	\$5.53	\$5.70	\$5.87
Commercial and Industrial										
Water Basic Service fee (per meter or per unit/qtr)	3.0%	\$25.75	\$26.52	\$27.32	\$28.14	\$28.98	\$29.85	\$30.75	\$31.67	\$32.62
Sewer Basic Service fee (per meter or per unit/qtr)	3.0%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water (per meter or per unit per 1,000 gallons):										
Tier 1: Water usage per first 10,000 gallons	3.0%	\$3.20	\$3.30	\$3.40	\$3.50	\$3.61	\$3.71	\$3.82	\$3.94	\$4.06
Tier 2: Water usage +10,000 gallons to 25,000 gallons	3.0%	\$3.36	\$3.46	\$3.56	\$3.67	\$3.78	\$3.89	\$4.01	\$4.13	\$4.25
Tier 3: Water usage +25,000 gallons	3.0%	\$3.88	\$4.00	\$4.12	\$4.24	\$4.37	\$4.50	\$4.64	\$4.78	\$4.92
Tier 4: Water usage +29,000 gallons to next Tier	3.0%	\$5.15	\$5.30	\$5.46	\$5.63	\$5.80	\$5.97	\$6.15	\$6.33	\$6.52
Tier 5: Water usage +36,000 gallons to next Tier	3.0%	\$6.83	\$7.03	\$7.24	\$7.46	\$7.69	\$7.92	\$8.15	\$8.40	\$8.65
Sewer (per 1,000 gallons)	3.0%	\$4.64	\$4.77	\$4.92	\$5.06	\$5.22	\$5.37	\$5.53	\$5.70	\$5.87
SURFACE WATER										
Residential (flat fee charged annually)	3.0%	\$51.50	\$53.05	\$54.64	\$56.28	\$57.96	\$59.70	\$61.49	\$63.34	\$65.24
Non-Residential (flat fee charged annually based on equivalent res. unit)	3.0%	\$51.50	\$53.05	\$54.64	\$56.28	\$57.96	\$59.70	\$61.49	\$63.34	\$65.24
SEWER CONNECTION CHARGES (collected with permit)										
Single family, duplex, townhouse, mobile home (per unit)	3.0%	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267
Comm/industrial, churches, schools, hospitals, nursing homes (per unit)	3.0%	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267
WATER CONNECTION CHARGES (collected with permit)										
Meter	3.0%	\$309	\$318	\$328	\$338	\$348	\$358	\$369	\$380	\$391
Single family, duplex, townhouse, mobile home (per unit)	3.0%	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267
Comm/industrial, churches, schools, hospitals, nursing homes (per unit)	3.0%	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267
TRUNK LINE AVAILABILITY CHARGES (collected at time of development)										
Sewer availability charge per unit	3.0%	\$3,000	\$3,090	\$3,183	\$3,278	\$3,377	\$3,478	\$3,582	\$3,690	\$3,800
MCES connection charge (per unit)	2.0%	\$2,435	\$2,484	\$2,533	\$2,584	\$2,636	\$2,688	\$2,742	\$2,797	\$2,853
Water availability charge for new development per unit	3.0%	\$3,000	\$3,090	\$3,183	\$3,278	\$3,377	\$3,478	\$3,582	\$3,690	\$3,800
Water availability charge for existing structures within Old Village	3.0%	\$824	\$849	\$8/4	006\$	176\$	444	\$984	\$T0'T\$	\$T,044
									19	

Custon	City of Lake Elmo Customer Equivalent Units, Volume of Water and Sanitary Sewer Service Billed	City of I tis, Volume of	City of Lake Elmo Lume of Water and Sa	nitary Sewer :	Service Billed				Utillit	Utility Rates	10
						Future Estimates for Financial Plans	tes for Finan	cial Plans			
	1	1	2	m	4	5	9	7	∞	6	10
	2011 2	2011 2012 Budget	2013	2014	2015	2016	2017	2018	2019	2020	2021
Volume figures below are annual amounts and shown in 1,000 of Gallons	S										
Residential											
Water Basic Service fee (per meter or per unit/gtr)	874	874	881	910	948	1,012	1,058	1,109	1,260	1,311	1,369
Sewer Basic Service fee (per meter or per unit/qtr)	874	874	881	910	948	1,012	1,058	1,109	1,260	1,311	1,369
Water (per meter or per unit):											
Tier 1: Water usage per first 15,000 gallons	52,440	52,440	52,860	54,580	56,905	60,715	63,490	66,565	75,610	78,655	82,150
Tier 2: Water usage +15,000 gallons to 30,000 gallons	7,500	7,500	7,560	7,806	8,139	8,683	9,080	9,520	10,814	11,249	11,749
Tier 3: Water usage +30,000 gallons to 50,000 gallons	5,000	5,000	5,040	5,204	5,426	5,789	6,054	6,347	7,209	7,500	7,833
Tier 4: Water usage +50,000 gallons to 80,000 gallons	6,841	6,841	6,896	7,120	7,423	7,921	8,283	8,684	9,864	10,261	10,717
Tier 5: Water usage +80,000 gallons	15,500	15,500	15,624	16,133	16,820	17,946	18,766	19,675	22,348	23,249	24,282
Total Water Volume Sold	87,281	87,281	87,980	90,843	94,713	101,054	105,673	110,791	125,845	130,913	136,730
Sewer (per 1,000 gallons)	2,337	2,337	2,356	2,432	2,536	2,706	2,829	2,966	3,369	3,505	3,661
Commercial and Industrial											
Water Basic Service fee (per meter or per unit/qtr)	109	109	109	109	112	114	120	124	132	135	143
Sewer Basic Service fee (per meter or per unit/qtr)	109	109	109	109	112	114	120	124	132	135	143
Water (per meter or per unit):											
Tier 1: Water usage per first 10,000 gallons	6,540	6,540	6,540	6,540	6,690	6,840	7,215	7,440	7,890	8,115	8,565
Tier 2: Water usage +10,000 gallons to 25,000 gallons	1,000	1,000	1,000	1,000	1,023	1,046	1,103	1,138	1,206	1,241	1,310
Tier 3: Water usage +25,000 gallons	1,000	1,000	1,000	1,000	1,023	1,046	1,103	1,138	1,206	1,241	1,310
Tier 4: Water usage +29,000 gallons to next Tier	3,000	3,000	3,000	3,000	3,069	3,138	3,310	3,413	3,619	3,722	3,929
Tier 5: Water usage +36,000 gallons to next Tier	19,416	19,416	19,416	19,416	19,861	20,307	21,420	22,088	23,424	24,092	25,428
Total Water Volume Sold	30,956	30,956	30,956	30,956	31,666	32,376	34,151	35,216	37,346	38,411	40,541
Sewer (per 1,000 gallons)	10,000	10,000	10,000	10,000	10,229	10,459	11,032	11,376	12,064	12,408	13,096
TOTAL ESTIMATED WATER BILLED (IN 1,000 OF GALLONS)	118,237	118,237	118,936	121,799	126,379	133,430	139,824	146,007	163,191	169,324	177,271
				-	-					20	





The chart includes water sold to both commercial and residential property. The increase in volume of water sold to new customers is based on the projected new connections (from new development) that is estimated to occur in the future years. The analysis assumes the volume sold to existing customers (2011 is the base year) remains constant.

## **Financial Plans**

# FINANCIAL PLANS

Based on historical financial performance, current utility rates and structure, and anticipated future capital projects, the following financial plans (pro forma)have been prepared for the utility funds.

### Key Assumptions

The financial plans for each of the utility funds was developed based on several key assumptions which are as follows:

- Operating expenditures, including personnel costs and materials supplies and all other operating expense will increase by 2 percent per year.
- No change in existing tier structure for fees and charges.
- Depreciation is held constant in the financial plans.
   Future depreciation expense will increase with the addition of infrastructure assets but for the purposes of this report the amount was held constant.
   Future updates to the financial plans will need to consider funding of depreciation and replacement of infrastructure.
- Current capital improvement plan will be implemented at estimated project costs and sources of funding. This includes an increase in future debt service for payment on bonds to be issued.
- Utility fees for use of the system (i.e., volume of water) are shown to increase at the rate of 3 percent per year for years 2013 to 2021. The percent increase is across all elements of the City's current rate structure, including the base and tier rates.

Actual year to year activity (i.e., volume of water sold, operating expenditures, etc) and actual expenditure on capital projects will determine what actual rates will need to be set at in order to maintain adequate cash in the utility funds.

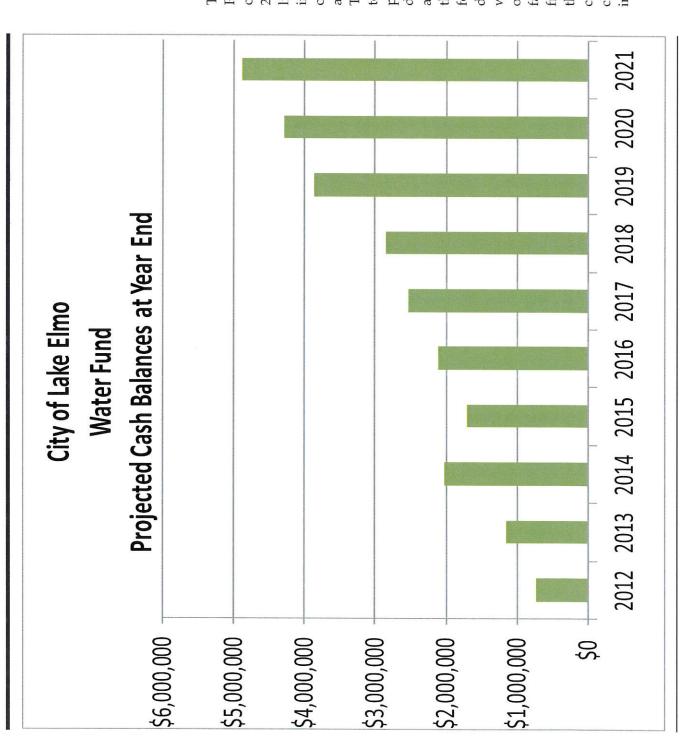
- Connection and availability charges are shown to increase at the rate of 3 percent per year. Revenue from these charges will be needed to pay for the expansion of the system and the planned capital projects and related debt service.
- Water connection charge is increased from \$140 in 2012 to \$3,000 beginning in year 2013. The water connection charge is than adjusted annually at the rate of 3 percent.
- Sewer connection charge is implemented beginning in year 2013. The City presently does not charge for sewer connection. Initially shown to be set at \$3,000 than adjusted annually at the rate of 3 percent.
- Metropolitan Council Environmental Services (MCES) connection charge is shown to increase by an estimated 2 percent per year. The actual annual amounts will be set by MCES.
- The proposed future utility fees and charges are shown to increase at a level that is adequate to maintain a positive cash balance in the funds and to meet a goal of maintaining cash balance at 50 percent of operating expenditures.

Notes     2010       SOURCE OF EUNDS:     2010       Operating:     ADI TOTAL     502,464     5       Operating:     Customer Billing Revenue     ADI TOTAL     502,464     5       Operating:     Customer Billing Revenue     FLAT     -     -       Bulk water sales     FLAT     -     -     -       Special assessments     EEK AUDIT     3,774     -     -       Water meter sales     EEK SCHED     111,121     -     -       Trunk Line Fees     SEE SCHED     111,121     -     -       Trunk Line Fees     SEE SCHED     78,000     -     -       Non-Operating Sources     1%     45,226     -     -       Non-Operating     Set CIP     23,928     -     -       Rond Proceeds     SEE CIP     23,928     -     -       Non-Operating:     Set CIP     23,928     -     -       Rond Proceeds     SEE CIP     23,928     -     -       Non-Operating:     Set CIP     23,928     -     -       Stants     Set CIP     Set CIP     -     -       Rond Proceeds     SEE CIP     Set CIP     -     -       Stant Set CIP     Set CIP     Set CIP <td< th=""><th>1 2011 2012 Budget 511474 440,000 6667 - (327) 2,500</th><th> </th><th>•</th><th></th><th></th><th></th><th>Projected</th><th></th><th></th><th></th><th></th></td<>	1 2011 2012 Budget 511474 440,000 6667 - (327) 2,500		•				Projected				
FFUNDS:     2010       FFUNDS:     ADJ TOTAL     502,464     5       rer sales     FLAT     -     -       assessments     FE     3,774     -       neter sales     SEE SCHED     11,121     -       ine Fees     SEE SCHED     78,000     -       otton Fees     1%     10,580     -       ent carnings     1%     10,580     -       otton Fees     1%     10,580     -       ent carnings     1%     45,226     -       otton Fees     1%     10,580     -       ent carnings     1%     45,226     -       otton Fees     1%     10,580     -       ent carnings     1%     45,226     -       otton Fees     56     1%     -       otton Fees     SEE CIP     23,928     -       occeds     SEE CIP     23,928     -       on Other/Due From Oth Funds     SEE CIP     23,928 <th>2011 201 511,474 6,667 (327)</th> <th></th> <th></th> <th></th> <th>V</th> <th></th> <th>Y</th> <th>-</th> <th>×</th> <th>a</th> <th>1</th>	2011 201 511,474 6,667 (327)				V		Y	-	×	a	1
FEUNDS:     AD/ TOTAL     502,464     5       er Billing Revenue     AD/ TOTAL     502,464     5       ter sales     FLAT     3,774       assessments     SEE AUDIT     3,774       assessments     SEE SCHED     11,121       ine Fess     SEE SCHED     78,000       tion Fees     1%     45,226       of the Fees     1%     45,226       OPerating Sources     1%     45,226       Operating Sources     5EE CIP     23,928       coreads     SEE CIP     23,929       coreads     SEE AUDIT     50,000       coreads     SEE AUDIT     561,329	511,474 6,667 (327)	2 Budget	2013	2014	2015	2016	2017	2018	2019	2020	2021
er Billing Revenue ADJ TOTAL 502,464 5 ter ales FLAT	511,474 6,667 (327)										
Iles     FLAT       saments     EEA UDIT       sales     SEE AUDIT       sales     SEE SCHED       res     1%       ating Sources     1%       ds     SEE CIP       ds     SEE CIP       Dater/Due From Oth Funds     SEE CIP       Of Sources     SEE AUDIT       Sources     SEE AUDIT       Sources     SEE AUDIT	6,667 (327)	440,000	578.765	609.242	650,341	705.369	761.748	818,466	938.372	1.002.178	1.081.357
sments 5EE AUDIT 3,774 sales 5EE SCHED 11,121 es 5EE SCHED 78,000 ees 5EE SCHED 78,000 ees 5EE SCHED 78,000 annings 5EE SCHED 78,000 annings 1% 10,580 annings 1% 15,226 ating Sources 5EE CIP 23,928 ds 5EE CIP 23,928 tental 5EE CIP 24,01 tental 5EE CIP 26,000 te	(327)		6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
seles SCHED 11,121 est SCHED 11,121 est SCHED 78,000 est SCHED 78,000 est SCHED 78,000 annings 515 SCHED 78,000 annings 11% 15,226 ating Sources 51% 15% 6 ds 51,165 6 ds 51,165 6 ds 51,167 23,928 brind 50,167 50,000 cf ating ascets 51% 15% 138/401 cf ating ascets 51% 14% 138/401 cf ating ascets 51% 55% 138/401 cf ating ascets 55% 138/401 cf ating ascets 55% 138/401 cf ating ascets 55% 14% 138/401 cf ating ascets 55% 15% 14% 15% 15% 14% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15		2,500	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
ees SEE SCHED 78,000 ees SEE SCHED 78,000 een arnings 11% 10,580 arning Sources 11% 45,226 ating Sources 651,165 6 ds Set CIP 23,928 ds Set CIP 23,928 ental SEE CIP 23,928 nertal SEE CIP 23,928 SEE CIP 23,928 claryDue From Oth Funds SEE AUDIT 50,000 of capital sects SEE AUDIT 261,329 1 Op Sources 26,200	9,165	5,000	8,652	31,615	43,272	73,946	52,167	53,732	55,344	57,005	58,715
cess SEE SCHED annings 11% 10,580 ating Sources 11% 45,226 ating Sources 651,165 6 ds Set CIP 23,928 ental Set CIP 23,928 nental SEE CIP 23,928 SEE CIP 23,928 SEE CIP 23,928 SEE CIP 23,928 SEE CIP 23,928 SEE CIP 23,929 1 Of Sources SEE AUDIT 261,329 1	74,100	48,000	600,000	927,000	1,129,859	1,096,552	759,718	347,782	358,216	184,481	190,016
arrings 11% 10.580 arring Sources 11% 10.580 ds 50urces 55E CIP 23.928 ds 55L1.165 6 651.165 6 651.165 6 61.165 6 14.7 Developer 55E CIP 23.928 bental 55E CIP 23.928 control 11% 55E CIP 23.928 bental 55E CIP 23.928 55E AUDIT 50.000 of capital sasets 55E AUDIT 187.401 Op Sources 55E AUDIT 261,329 1			28,000	118,107	175,049	288,480	236,357	255,040	755,835	268,113	333,161
1%     45,226       ating Sources     651,165     6       ds     SEE CIP     23,928       hental     SEE CIP     23,928       nental     SEE CIP     23,928       Diher/TH/Developer     SEE CIP     23,928       Diher/TH/Developer     SEE CIP     23,928       Diher/Due From Oth Funds     SEE AUDIT     50,000       Of capital assets     SEE AUDIT     50,000       Op Sources     SEE AUDIT     261,329     1	9,903	4,000	7,199	11,596	20,174	16,956	20,982	25,230	28,436	38,626	42,981
ating Sources 651,105 te ds 55E CIP 23,928 nental 55E CIP 23,928 Other/TIF/Developer 55E CIP 23,928 Diher/TIF/Developer 55E CIP 50,000 Other/Due From Oth Funds 55E AUDIT 50,000 Of Capital 35515 55E AUDIT 187,401 Of Sources 55E AUDIT 187,401 Of Sources 55E AUDIT 187,401	48,555	36,000	27,600	27,600	27,600	27,600	27,600	27,600	27,600	27,600	27,600
ds SEE CIP 23,928 SEE CIP 23,928 nental SEE CIP 23,928 nental SEE CIP SEE CIP SEE CIP SEE CIP Litigation judgment SEE AUDIT 50,000 Other/Due From Oth Funds SEE AUDIT 187,401 of capital assets SEE AUDIT 187,401 Op Sources 261,329 1	659,537	535,500	1,260,216	1,735,160	2,056,294	2,218,902	1,868,573	1,537,851	2,173,803	1,588,003	1,743,829
vernmental SEE CIP SEE AUDIT SEE AUDIT 50,000 and other/Due from Oth	56.226		3 540 000	5	,			,		.*	
vernmental set CIP set	01101		000 000 1	1	,	-	Ĩ	,			э
Per SEE CIP ant ESTIMATE 50,000 Oth Funds SEE AUDIT 50,000 SEE AUDIT 187,401 261,329 1			1.000.000	1	1		a	3	3	1	x
ent ESTIMATE 50,000 Oth Funds SEE AUDIT 50,000 SEE AUDIT 187,401 261,329 1			1	400,000	1	250,000	350,000			з	а
Oth Funds SEE AUDIT 50,000 SEE AUDIT 187,401 261,329 1				1							
SEE AUDIT 187,401 261,329	50,000	25,000	3	t	,	х	1	3	1	2	×
261,329											
	106,226	25,000	5,540,000	400,000		2,250,000	350,000		9	э	-
Total Source of Funds 912,494 7	765,763	560,500	6,800,216	2,135,160	2,056,294	4,468,902	2,218,573	1,537,851	2,173,803	1,588,003	1,743,829
USE OF FUNDS: Operation:											
102 711 %c	103 651	103 845	105 922	108 040	102 011	112 405	114 653	116 946	119 285	121 671	124 104
10.000 Jacobie 2000 Jacobie 200		259 725	254 920	270,218	275,622	281 135	757 286	202.043	298 347	304 309	302,015
2% 324,818		340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000
kM from future Improv	1012-10	000	0000	0	2		0	0	2		0000
699,745	647,962	703,570	710,841	718,258	725,823	733,540	741,411	749,439	757,628	765,980	774,500
ovements/acquisition SEE CIP 33,320	12,831	1	5,540,000	400,000	1,500,000	3,175,000	600,000	City hasn't id	entified but doe	City hasn't identified but does anticipate there will be	e will be
SEE CIP 56,226								future capi	tal spending in	future capital spending in years 2018 to 2021 not	21 not
GO Water Rev Bond 2002B SEE CIP									accounted f	for here.	
175,025		175,025	300,025	320,650	315,250						
SEE CIP 51,131	55,069	54,680	53,680	52,480	51,280	49,880	53,680	52,128	55,575	53,850	51,925
(005A)						281,043	272,143	293,343	284,043	279,843	270,643
S SEE DEBI	0 7 7		2000,000	556,621	2///571	818'991	200,004	462,348	5/4/769 EFC 2	525,265	222,223
tization* SEE CIP /,418	/,418	/,418	0,211	0,211	0,211	0,211	0,211	0,211	0,211	0,211	0,211
Uther (Adjustments) KEL IU AUUI Z,402 True on the Other Minets Control Control Control	010'11										
325 522	262 161	237,123	5 995 940	905 365	1.998.585	3.679.018	1.398.663	814.095	743.368	732.893	721.678
1,025,267			6,706,781	1,623,623	2,724,408	4,412,557	2,140,073	1,563,534	1,500,995	1,498,873	1,496,177
	-										
NET DIFFERENCE SOURCES AND USES (112,773) (1	(144,360) (	(380,193)	93,435	511,537	(668,114)	56,344	78,500	(25,683)	672,808	89,130	247,651
CASH BALANCE Avvilable Cash Balance Purnoses:											
se as reserve 323,981		355,421	359,129	362,912	366,770	370,705	374,719	378,814	382,990	387,250	398,867
tal 241,427			800,466	1,654,497	1,328,802	1,/2/,488	2,148,250	2,464,/50	3,479,658	3,910,805	4,493,116
Ending Cash Balance 565,408 7	752,658	/19,883	1,159,595	2,017,409	1,695,572	2,098,193	2,522,970	2,843,563	3,862,648	4,298,055	4,891,984

									I	Finar	Financial Plans	ans
			SANIT	LLIT OF LAKE ELMO SANITARY SEWER FINANCIAL PLAN	ELMO JANCIAL PLAN							
			' <u>-</u>	6	~	V	Ľ	Projected	L	0	a	VF
Notes	es <u>2010</u>		2011 2012 Budget	2013	2014	2015	2016	2017	2018	<b>2</b> 019	2020	2021
SOURCE OF FUNDS:												
Operating:												
Customer Billing Revenue	48,508	53,012	50,000	57,268	59,352	62,770	66,674	72,311	77,065	85,416	90,713	98,389
Interest income 1%	631	417	100	(166)	4,865	12,863	22,311	32,689	39,338	39,171	46,704	47,270
Special assessments SEE AUDIT	- 1101	ı			r	r.	·	ı.	T	Ŧ,	,	ì
Trunk Line fees	HED 2,400	1,785	,	600,000	927,000	1,129,859	1,096,552	759,718	347,782	358,216	184,481	190,016
Connection fees SCHED	HED			28,000	118,107	175,049	288,480	236,357	255,040	755,835	268,113	333,161
MCES fee collected				446,000	730,500	881,714	847,414	581,409	263,572	268,844	137,110	139.852
Total Operating Sources	51,539	55,214	50,100	1,131,101	1,839,823	2,262,253	2,321,430	1,682,485	982,797	1,507,481	727,121	808,688
Non-Operating:											-	-
Bond Proceeds SEE CIP	- dD	·	•	3,500,000	1,200,000	1,100,000	'n	3	89			ł
Grants SEE CIP	- di	1	5	1,000,000		ł	ĩ		т	1		2
Intergovernmental SEE CIP	IP			2	2	1	180,000	180,000	T.	r	ł	ł
Trsf In from Other/TIF/Developer	- dD	r,		ī	400,000		420,000	420,000	in a	1		7
Total Non-Op Sources	3		•	4,500,000	1,600,000	1,100,000	600,000	600,000		ı		,
Total Source of Funds	51,539	55,214	50,100	5,631,101	3,439,823	3,362,253	2,921,430	2,282,485	982,797	1,507,481	727,121	808,688
USE OF FUNDS:												
Operating:												
Personnel 2%	22,996	22,837	23,403	23,871	24,348	24,835	25,332	25,839	26,356	26,883	27,420	27.969
NonPersonnel 2%	29,777	41,521	70,400	71,808	73,244	74,709	76,203	727,TT	79,282	80,867	82,485	84,135
MCES Payment (offset by fee collected)				446,000	730,500	881,714	847,414	581,409	263,572	268,844	137,110	139,852
Depreciation 2%	8,740	000'6	9,200	9,200	9,200	9,200	9,200	9,200	9,200	9,200	9,200	9,200
Increase in O&M from future Improv 2%												
Total Operating Uses	61,513	73,358	103,003	550,879	837,293	990,458	958,149	694,175	378,410	385,794	256,215	261,156
Non-Operating:									L			
	dI			4,500,000	1,600,000	1,100,000	600,000	600,000	300,000	City hasn't iden	City hasn't identified but does anticipate	nticipate
	BT									There will be future capital spending in years	re will be future capital spending in ye	ng in years
Future Debt Service on Bonds to be Issued SEE DEBT	EBT			86,285	211,910	336,260	334,610	332,660	330,310	T 200 01 0107	ומן מררטמוונכת ור	
Other (Adjustments) REC TO AUDIT	AUDIT 17,015	(6,980)							1			
Trsf out to Other/Due to Oth Funds												
Total Non-Operating	17,015	(6,980)		4,586,285	1,811,910	1,436,260	934,610	932,660	630,310	377,560	423,435	467,835
Total Use of Funds	78,528	66,378	103,003	5,137,164	2,649,203	2,426,718	1,892,759	1,626,835	1,008,720	763,354	679,650	728,991
NET DIFFERENCE SOURCES AND USES	(26,989)	(11,164)	(52,903)	493,937	790,621	935,535	1,028,671	655,649	(25,922)	744,127	47,470	79,697
<u>CASH BALANCE</u> Available Cash Balance Purposes:												
Estimate of 50% of operating expense for reserve	36,679		275,440	418,646	495,229	479,074	347,088	189,205	192,897	128,108	130,578	134,495
Net available for capital	(7,453)		(292,081)	67,850	791,088	1,751,978	2,921,836	3,744,568	3,724,153	4,542,270	4,596,470	4,681,449
Ending Cash Balance	29,226	27,062	(16,641)	486,496	1,286,317	2,231,052	3,268,923	3,933,773	3,917,050	4,670,377	4,727,047	4,815,944
									1		VC	
											1	

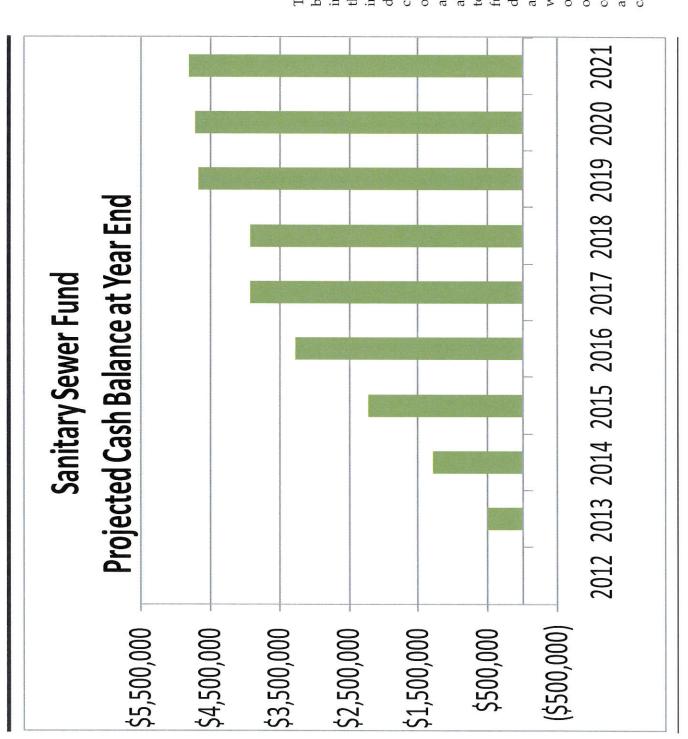
Table in the control of the					A CONTRACTOR OF A CONTRACTOR OFTA CONT	The second s		A REAL PROPERTY AND INCOME.	NAME AND ADDRESS OF TAXABLE PARTY.	South State of the		El N D D		240
Note in the second of					AUTO	CITY OF LAKE !	ILMO					8		0
Image: constraint of the					NOIC					Projected				
Inter         2010         2011         2012         2013         2014 <t< th=""><th></th><th></th><th></th><th></th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>9</th><th>7</th><th>8</th><th>6</th><th>10</th></t<>					1	2	3	4	5	9	7	8	6	10
Benue         15,36         35,32         16000         25,33         35,33         25,36         2006         2           Benue         Stand         Stand <td></td> <td>Notes</td> <td>2010</td> <td>2011 2</td> <td>012 Budget</td> <td>2013</td> <td>2014</td> <td>2015</td> <td>2016</td> <td>2017</td> <td>2018</td> <td>2019</td> <td>2020</td> <td>2021</td>		Notes	2010	2011 2	012 Budget	2013	2014	2015	2016	2017	2018	2019	2020	2021
Tente         18,34         53,25         1000         23,33         35,23         23,236         35,14         34,12         23,06         26,06 <th< td=""><td>SOURCE OF FUNDS:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	SOURCE OF FUNDS:													
wewe         13,3         5,3,3         15,0,0         15,3,1         15,0,0         15,3,1	Operating:													
matrix         1s         0         4ds $\cdot$ 71         6ds         134         240         233         354         443         534           Surves         Ex         Matrix         Ex         Ex       <	Customer Billing Revenue		185,245	235,252	150,000	228,378	235,229	242,286	249,554	257,041	264,752	272,695	280,876	289,302
xie         xie <td>Interest income</td> <td>1%</td> <td>(83)</td> <td>468</td> <td>٢</td> <td>11</td> <td>685</td> <td>1,341</td> <td>2,040</td> <td>2,783</td> <td>3,574</td> <td>4,413</td> <td>5,304</td> <td>6,247</td>	Interest income	1%	(83)	468	٢	11	685	1,341	2,040	2,783	3,574	4,413	5,304	6,247
Sources         217,083         32,770         167,00         259,44         245,677         251,54         263,05         271,18         264,79         5           SEC 0         5         -	Other Miscellaneous	SEE AUDIT	32,721	17,000	17,500		r	r		г	r	×	r	x
SEC0         SEC0 <t< td=""><td>Total Operating Sources</td><td></td><td>217,883</td><td>252,720</td><td>167,500</td><td>228,449</td><td>235,914</td><td>243,627</td><td>251,594</td><td>259,825</td><td>268,326</td><td>277,108</td><td>286,179</td><td>295,549</td></t<>	Total Operating Sources		217,883	252,720	167,500	228,449	235,914	243,627	251,594	259,825	268,326	277,108	286,179	295,549
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Non-Operating:													
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Bond Proceeds	SEE CIP	5	а	2				÷	x			a	э
(Tif Developer         SE CP         ·	Grants	SEE CIP	a	a	1		3 <b>1</b> 3	а	а.	ja	э	10	1	а
untert   <	Trsf In from Other/TIF/Developer	SEE CIP	,	÷	•	1		740					27412	(ar)
64       23,530       21,738       24,134       40,52       24,449       235,64       24,547       236,85       77,108       26,179       26,546       46,559       77,108       26,179       26,546       46,559       77,108       26,179       26,179       26,546       46,559       77,109       26,179       26,546       46,559       77,190       26,179       26,546       45,546       45,546       45,546       45,546       45,546       15,188       15,189       15,189       15,189       15,189       15,189       15,189       15,189	Total Non-Op Sources										e.	÷	r	r
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Total Source of Funds		217,883	252,720	167,500	228,449	235,914	243,627	251,594	259,825	268,326	277,108	286,179	295,549
25       3355       4114       4052       4134       4216       4371       4566       6559       4749         12       5       5       15,388       15,188       15,188       15,188       15,188       14,131       14,1518       14,131         Uses       2       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       15,188       14,131	USE OF FUNDS:													
26         3955         4,13         40,32         4,136         13,376         13,605         13,736         13,603         14,731         6,566         6,559         6,490         7,990         13,336         13,603         14,336         13,138         14,138         14,336         13,036         13,036         13,138         14,131         13,336         13,603         14,131         14,336         13,138         14,131         14,132         <	Operating:													
2%       6,41       9,6,41       9,6,02       123,200       128,17       130,741       133,356       136,023       134,713       141,518       14,348       15,188       16,196       16,1166       16,1166       16,1166       16,1166       16,1166       16,1166       16,1166       16,1166       15,11       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511       15,511	Personnel	2%	39,855	41,134	40,532	41,343	42,169	43,013	43,873	44,751	45,646	46,559	47,490	48,439
25       15,188       15,189       15,189       15,189	NonPersonnel	2%	96,341	95,062	123,200	125,664	128,177	130,741	133,356	136,023	138,743	141,518	144,348	147,235
Uses       151,364       151,364       178,200       185,355       188,942       192,417       195,515       203,265       207,026       3         refer       NONE       SEE CBF       NONE       SEE CDF       NONE       SEE CDF       Accounted for here.	Depreciation	2%	15,188	15,188	15,188	15,188	15,188	15,188	15,188	15,188	15,188	15,188	15,188	15,188
SEC0*         cice       Nonc:         Nonc:         ce ob Bonds to le Isued       SE DET         ECTO AUDIT       31,607       131,197         Le DET         Nonc:         City hann't identified but does anticipate there will thus at ECTO AUDIT       31,607       131,197	Total Operating Uses		151,384	151,384	178,920	182,195	185,535	188,942	192,417	195,961	199,577	203,265	207,026	210,863
SECtP         SECtP           ice         NONE           ce n Bonds to be Issued         SEE OET           iss         SEC OA JUNT           ist         SI,687           iss         SI,87           iss         SI,87           iss         SI,97           iss         SI,97           iss         SI,17	Non-Operating:													
rice         NONE         Clip hash identified but does anticipate there will thrue capital spending in years 2018 to 2021 not economed for here.           tc on Bonds to be Issued         set DEBT         accounted for here.           (s)         mout         accounted for here.           (s)         (s)         113,820         182,135         188,932         195,471         203,265         207,026         3           (s)         (s)         (s)         113,820         132,130         139,377         203,265         207,026         3           (s)         (s)         (s)         113,820         132,330         54,863         73,844         73,844         73,844         73,844         73,844         73,844         73,844         73,844         73,943 <td< td=""><td>Capital</td><td>SEE CIP</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>L</td><td></td><td></td><td></td><td></td></td<>	Capital	SEE CIP								L				
ce on Bonds to be Issued       sec EE DET       future capital spending in years 2018 to 2021 not         (s)       REC TO AUDIT       81,687       113,197	Existing Debt Service	NONE									City hasn't ide	entified but does	anticipate there	will be
tct       REC TO AUDIT       81.687       113.197       accounted to Tete.         Due to Ch1 Funds       NONE       81.687       113.197       54.581       185.535       186.942       192.417       195.961       199.577       203.265       207.026       2         Due to Ch1 Funds       NONE       233.071       264.581       178.205       185.535       186.942       192.417       195.961       199.577       203.265       207.026       2         Due to Ch1 Funds       15.188       (11.420)       46.254       50.380       54.685       59.177       63.863       68.749       73.844       791.53         UNCES AND USES       15.583       186.942       50.380       54.685       59.177       63.863       68.749       73.844       791.53         UNCES AND USES       75.692       89.460       91.097       45.685       59.177       63.863       297.06       73.844       791.53         Let Purposes:       75.692       86.133       (11.420)       96.208       97.981       297.965       195.713       195.74       67         Let Purposes:       75.692       89.133       (24.220)       39.643       107770       180.365       237.956       50.736       50.7378	Future Debt Service on Bonds to be Issued	SEE DEBT									future capit	al spending in ye	ears 2018 to 202	l not
Due to Oth Funds       NONE       81.667       113.197       264.581       178.202       185.535       188.942       192,417       199,577       203,265       277/026       2         ating       233,071       264,581       178.200       182,195       185,535       188,942       199,577       203,265       207/026       2         Due to Oth Funds       (15,188)       (11,861)       (11,420)       46,254       50,380       54,685       59,177       63,863       68,749       73,844       79,155       2         Unccts AND USES       (15,188)       (11,420)       46,254       50,380       54,685       59,177       63,863       63,793       73,844       79,155       2         Purposes       (15,692)       (84,002)       (24,230)       39,634       107,770       180,363       27,606       339,700       426,851       159,274       6         Liab       (75,692)       (84,002)       (24,230)       39,634       107,770       180,363       27,606       339,700       426,851       159,274       6         Liab       (75,692)       (84,002)       (24,230)       39,634       107,770       180,363       27,7566       339,700       42,6451       159,274       <	Other (Adjustments)	<b>REC TO AUDIT</b>	81,687	113,197								accounted to	nere.	
ating time to the formation of the forma	Trsf out to Other/Due to Oth Funds	NONE												
233,071       264,581       176,920       185,135       185,942       195,961       199,577       203,265       207,026       2         UNCCES AND USES       (15,188)       (11,861)       (11,420)       46,254       50,380       54,685       59,177       63,663       68,749       73,844       79,153         Re Purposes:       75,692       89,460       91,097       92,767       94,471       96,208       97,981       99,788       101,632       103,513       105,431       1         Lal       (75,692)       (84,002)       (24,230)       39,634       107,770       180,363       27,606       339,700       42,6851       519,274       6         Lal       (75,692)       (84,002)       (24,230)       39,634       107,770       180,363       27,606       339,700       41,322       530,364       62,470       75         Lal       (75,692)       (84,002)       (70,92)       (84,302)       134,105       203,973       41,332       530,364       624,705       7	Total Non-Operating		81,687	113,197			,	,	,					
URCES AND USES       (15,188)       (11,861)       (11,420)       46,254       50,380       54,685       59,177       63,863       68,749       73,844       79,153         Re Purposes       75,692       89,460       91,097       92,767       94,471       96,208       97,981       99,788       101,632       103,513       105,431       1         tal       (75,692)       (86,133)       (84,002)       (24,230)       39,634       107,770       180,363       257,606       339,700       426,851       519,274       6         tal       (75,692)       (86,133)       (74,230)       39,634       107,770       180,363       257,606       339,700       426,851       519,274       6         .       .       3,327       7,095       68,537       134,105       203,978       278,305       411,332       530,364       624,705       75	Total Use of Funds		233,071	264,581	178,920	182,195	185,535	188,942	192,417	195,961	199,577	203,265	207,026	210,863
Le Purposes: Determine expense for reserve 75,692 89,460 91,097 92,767 94,471 96,208 97,981 99,788 101,632 103,513 105,431 Lal (7,5692) (86,133) (84,002) (24,230) 39,634 107,770 180,363 257,606 339,700 426,851 519,274 - 3,327 7,095 68,537 134,105 203,978 278,343 357,395 441,332 530,364 624,705	NET DIFFERENCE SOURCES AND USES		(15,188)	(11,861)	(11,420)	46,254	50,380	54,685	59,177	63,863	68,749	73,844	79,153	84,686
crompose. Detailing expense for reserve 75,692 89,460 91,097 92,767 94,471 96,208 97,981 99,788 101,632 103,513 105,431 tal (7,770 180,363 257,606 339,700 426,851 519,274 - 3,327 7,095 68,537 134,105 203,978 278,343 357,395 441,332 530,364 624,705 25	CASH BALANCE AudioNot Coth Bolonce Durances:													
tal (7,7562) (86,133) (84,002) (24,230) 39,634 107,770 180,365 339,700 426,851 519,274 - 3,327 7,095 68,537 134,105 203,978 278,343 357,395 441,332 530,364 624,705 25	Estimate of 50% of operating expense for reserve		75,692	89,460	91,097	92,767	94,471	96,208	97,981	99,788	101,632	103,513	105,431	108,594
- 3,327 7,095 68,537 134,105 203,978 278,343 357,395 441,332 530,364 624,705	Net available for capital		(75,692)	(86,133)	(84,002)	(24,230)	39,634	107,770	180,363	257,606	339,700	426,851	519,274	615,985
25	Ending Cash Balance		-	3,327	7,095	68,537	134,105	203,978	278,343	357,395	441,332	530,364	624,705	724,579
													25	





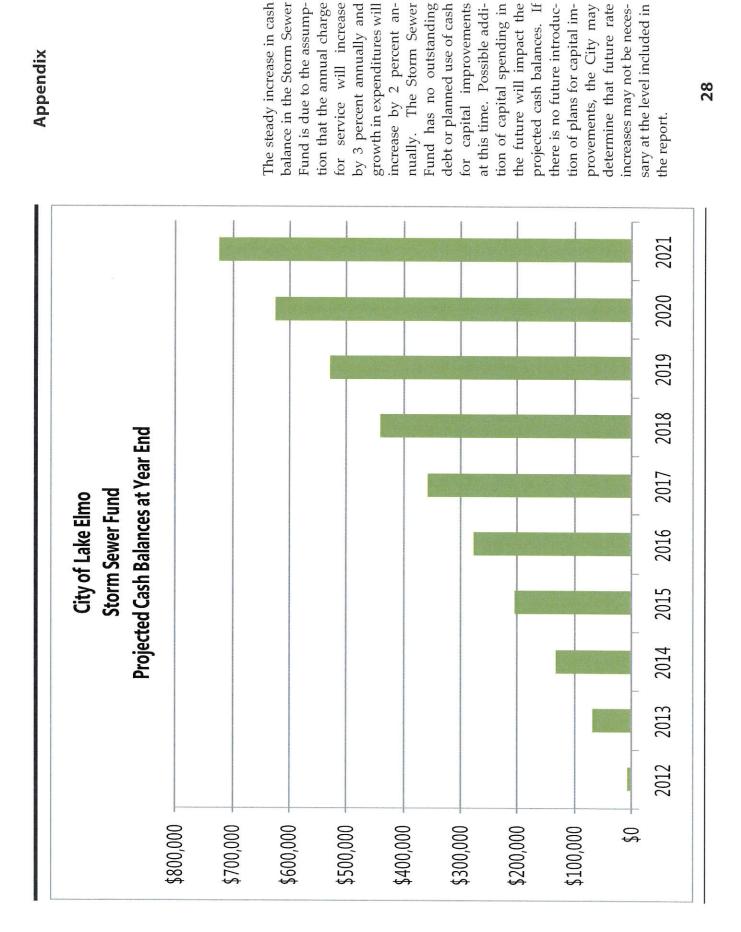
2017 for capital projects in lieu of bonding. Year 2015 The City may determine The Capital Improvement to increase or decrease the planned issuance of bonds for project costs or future Plan anticipates the use of cash in years 2015, 2016, and includes the largest use of cash for capital, estimated at \$1.5 million in this year. depending on the actual amount of cash available in the in future years to pay debt service. The decision will depend on the amount of cash available which is a factor of the rate of growth from new development and the timing of collection of connection and availability charges and capital spending.

Appendix

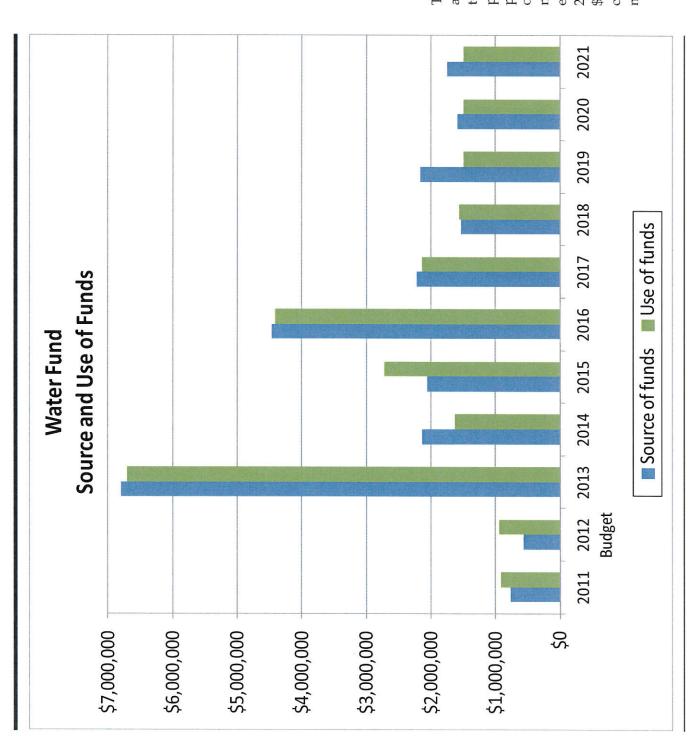


crease the planned issuance of bonds depending on the future debt service. The amount of cash available The City's CIP anticipates improvement projects, with the exception of \$300,000 to pay for project costs or decision will depend on the which is a factor of the rate and bonding to pay for capital n year 2018. The City may determine to increase or deable in the in future years opment and the timing of actual amount of cash availof growth from new develcollection of connection and availability charges capital spending.





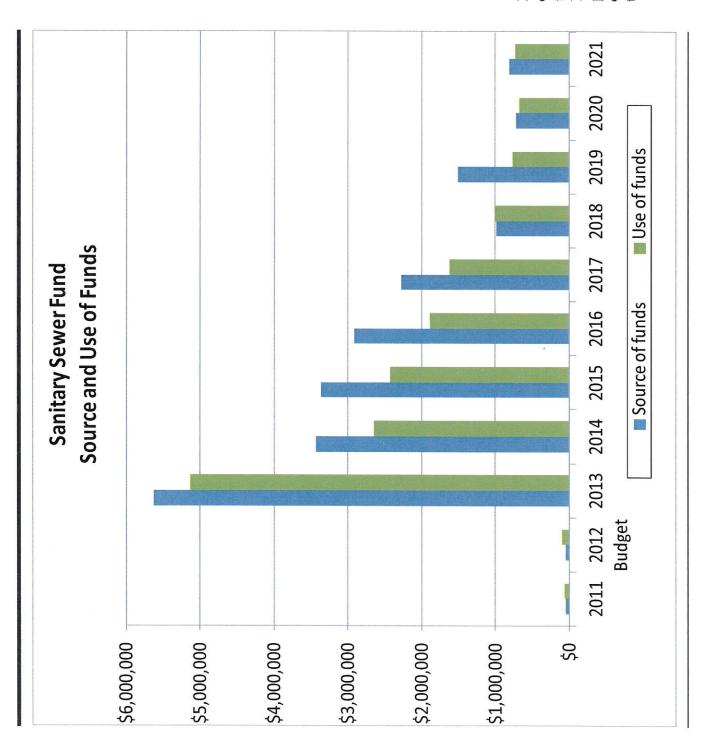




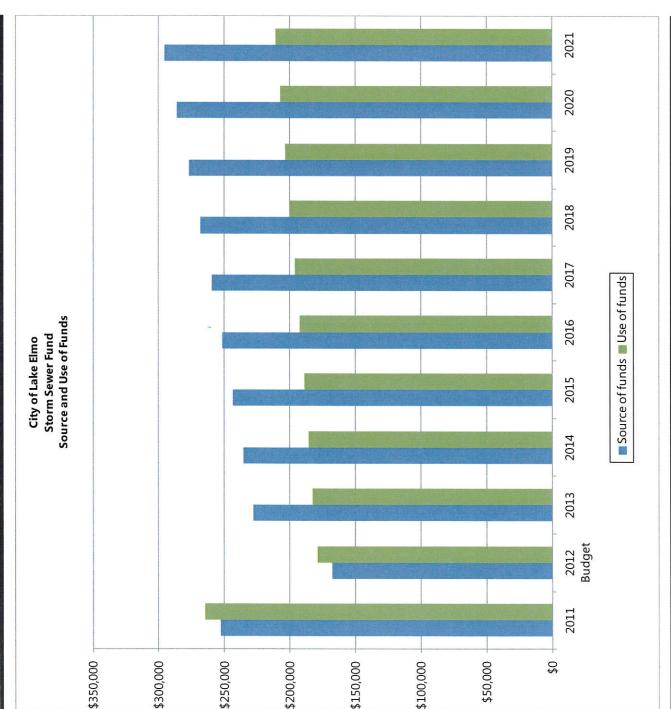
29

The annual projected source and use of funds varies due to the timing of capital improvement projects and planned use of cash. The other major factor is payment of debt service. For example, in year 2015 and 2016, the City plans to use \$1,500,000 and \$925,000 of cash for capital improvements, respectively by year.





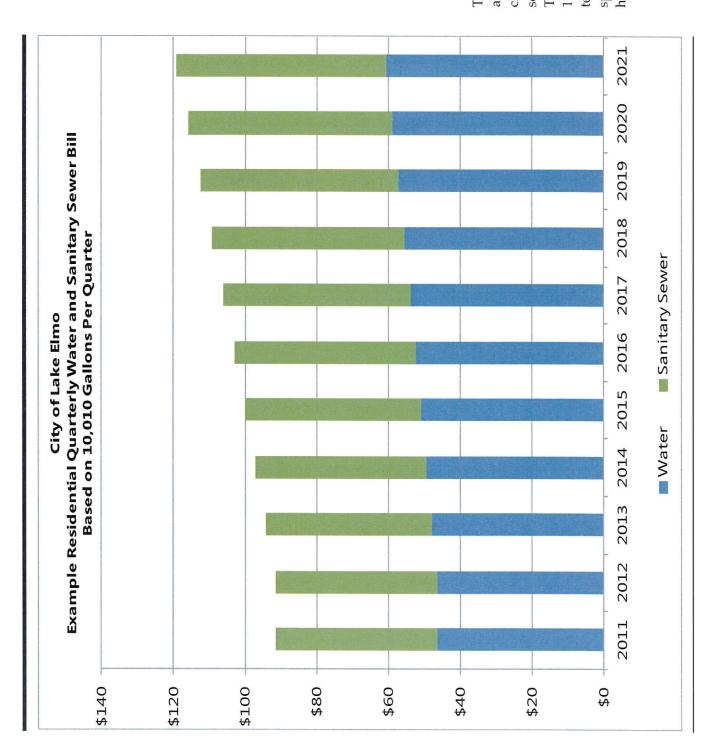
Projected source of funds exceeds use of funds, with the exception of year 2018. In year 2018, the City anticipates the use of \$300,000 of cash from the fund for capital improvements.



jected to exceed the use The source of funds is proof funds each year due to and 2 percent increase in annual operating expenditures. The Storm Sewer Fund has no outstanding for capital improvements at this time. Possible addition of capital spending in the projected 3 percent increase in the fee charged debt or planned use of cash the future will impact the ance. The City may deterprojected cash balances and the draw-down of fund balmine to reduce the planned increase in the fee depending on actual expenditures.

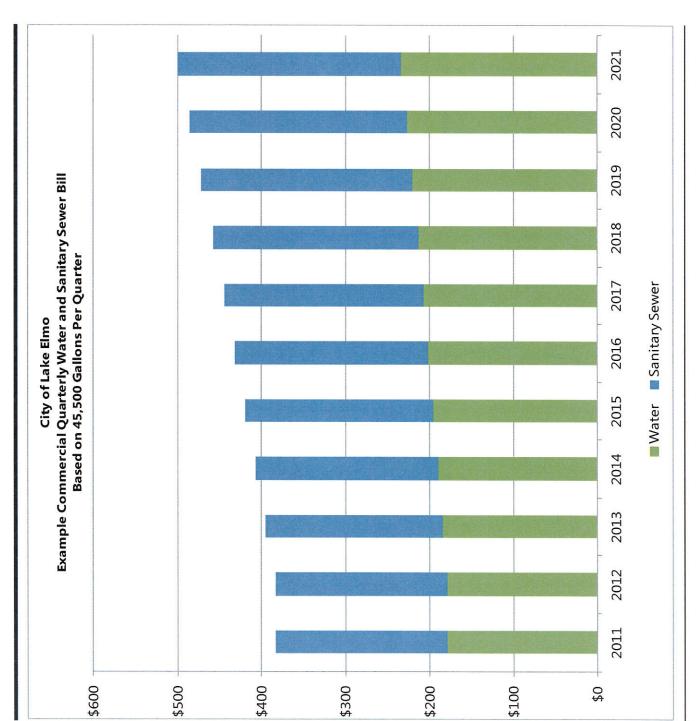
Appendix





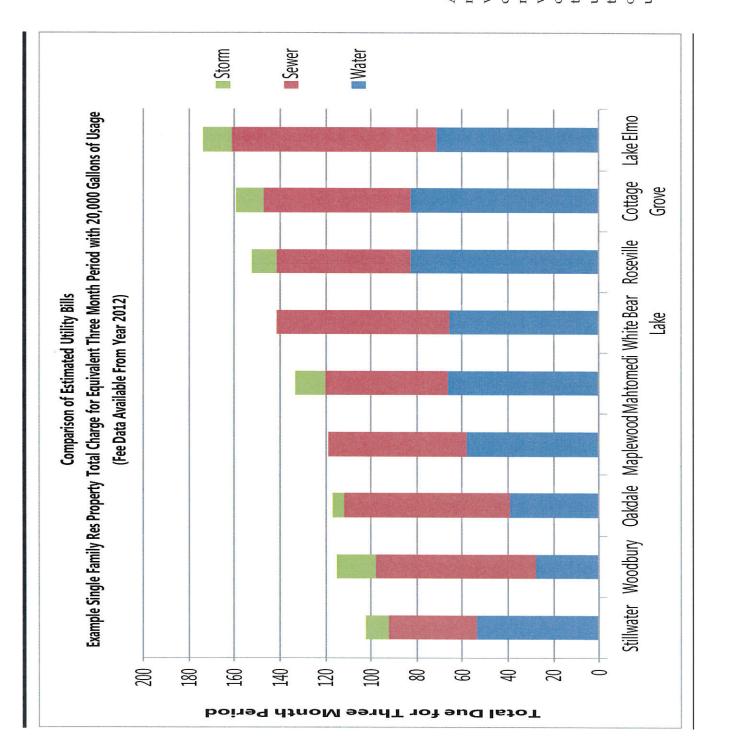
The quarterly charge amounts shown in this chart are based on the fee schedule shown on page 19. The estimated volume of 10,010 is for household water usage. Property with a sprinkler system will have a higher average volume .

Appendix



The quarterly charge amounts shown in this chart are based on the fee schedule shown on page 19.

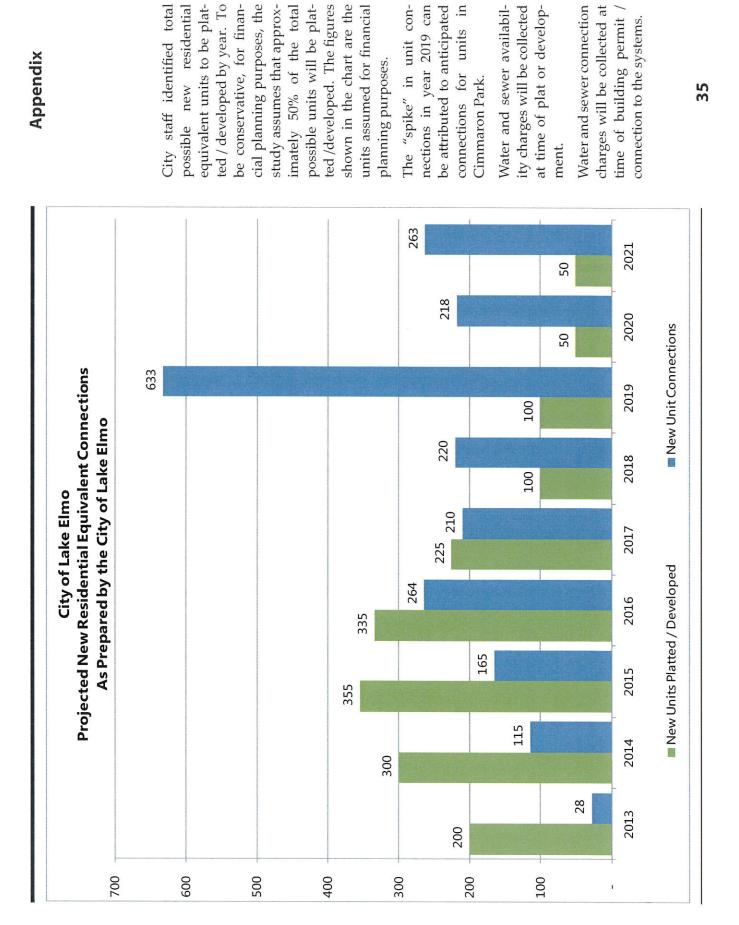




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As the City of Lake Elmo's number of customers and volume of water sold increases, the City will have more customer units (and volume) to spread its fixed costs over and as a result the City of Lake Elmo's utility rates should begin to align more closely with other more developed cities utility rates over time.







Northland Securities, Inc. 45 South 7th Street , Suite 2000 Minneapolis, MN 55402 Toll Free 1-800-851-2920 Main 612-851-5900 www.northlandsecurities.com Member FINRA and SIPC 9/4/2015

The information presented is intended solely for financial planning purposes

REVENUE IMPACT	20	14 201	5	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total	
Buildouts																			
Residential		41	100	130	210	210	210	210	120	0	0	0	0	0	0	0	0	1231	
Commercial		35	94	70	135	90	70	86	20	0	0	0	0	0	0	0	0	600 1	831
EXISTING -WATER FUND (8/25/15)																			
Existing Water Fund Revenue (Non-usage)	x	1,295,		1,273,000	1,911,000	1,374,000	1,348,000	1,142,000	698,000	2,208,000	618,000	613,000 #	598,000	598,000	598,000	598,000	598,000	15,470,000	
Existing Water Fund Usage Revenue	x	763,		763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	763,050	11,445,750	
Total Annual Existing Revenue		2,058,		2,036,050	2,674,050	2,137,050	2,111,050	1,905,050	1,461,050	2,971,050	1,381,050	1,376,050	1,361,050	1,361,050	1,361,050	1,361,050	1,361,050	26,915,750	
Existing Assessment Revenue	х	188,		110,617	52,744	52,744	52,744	52,744	52,744	52,744	51,245	45,133	45,133	45,133	45,133	45,133	45,133	938,009	P+I
Total Existing Available Funding		2,246,	934	2,146,667	2,726,794	2,189,794	2,163,794	1,957,794	1,513,794	3,023,794	1,432,295	1,421,183	1,406,183	1,406,183	1,406,183	1,406,183	1,406,183	27,853,759	
Existing Operating Expenses	х	(377,	879)	(389,219)	(400,892)	(412,919)	(425,306)	(438,066)	(451,208)	(451,208)	(451,208)	(451,208)	(451,208)	(451,208)	(451,208)	(451,208)	(451,208)	(6,505,153)	
Existing Debt service (P+I) - Water Fund		(459,	124)	(574,285)	(632,093)	(663,193)	(653,543)	(643,943)	(629,343)	(704,633)	(702,877)	(684,688)	(695,938)	(691,500)	(701,232)	(704,594)	(695,147)	(9,836,133)	
Existing Net Cash Flow - Water Fund		1,409,	931	1,183,163	1,693,809	1,113,682	1,084,945	875,785	433,243	1,867,953	278,210	285,287	259,037	263,475	253,743	250,381	259,828	11,512,473	
							-												
PROJECTED IMPACT WITH FULL DOWNTOWN	PROJEC	Т																	
New Water Fund Revenue (Non-usage)	x		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
New Water Fund Usage Revenue	x	77,	100	278,100	461,100	789,600	1,050,600	1,281,600	1,536,600	1,698,600	1,770,600	1,782,600	1,851,600	1,911,600	1,971,600	2,031,600	2,091,600	20,584,500	
Total Annual Water Fund Revenue	x	77,	100	278,100	461,100	789,600	1,050,600	1,281,600	1,536,600	1,698,600	1,770,600	1,782,600	1,851,600	1,911,600	1,971,600	2,031,600	2,091,600	20,584,500	
New annual assessment revenue		7,	765	7,765	7,765	7,765	7,765	7,765	7,765	0	0	0	0	0	0	0	0	54,352	P+I
Total New Available Funding		84,	865	285,865	468,865	797,365	1,058,365	1,289,365	1,544,365	1,698,600	1,770,600	1,782,600	1,851,600	1,911,600	1,971,600	2,031,600	2,091,600	20,638,852	
New Operating Expenses	х	(66,	651)	(133,307)	(133,307)	(133,307)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(391,475)	(4,772,797)	
Oversizing watermains	х	(161,	861)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(161,861)	
New Debt Service (P+I) - Water Fund	x		0	0	(279,614)	(360,856)	(403,740)	(406,974)	(722,545)	(704,436)	(686,327)	(668,218)	(650,109)	(631,999)	(613,890)	(595,781)	(577,672)	(7,302,161)	
New Cash Flow - Water Fund		(143,	647)	152,558	55,944	303,202	263,150	490,916	430,345	602,689	692,798	722,907	810,016	888,126	966,235	1,044,344	1,122,453	8,402,034	
Combined																			
Combined Water Fund Revenue (Non-usage)		1,295,	000	1,273,000	1,911,000	1,374,000	1,348,000	1,142,000	608 000	2 208 000	618 000	612 000	508 000	508 000	508 000	508 000	509.000	15 470 000	
Combined Water Fund Usage Revenue		840,		1,041,150	1,224,150	1,574,000		2.044.650	698,000	2,208,000	618,000	613,000	598,000	598,000	598,000	598,000	598,000	15,470,000	
Combined Annual Certified Debt Service - Levied		2,135,		2,314,150		, ,	1,813,650	, ,	2,299,650	2,461,650	2,533,650	2,545,650	2,614,650	2,674,650	2,734,650	2,794,650	2,854,650	32,030,250	
Combined Annual certified Debt Service - Levied		2,135, 196,		2,314,150	3,135,150 60,509	2,926,650 60,509	3,161,650	3,186,650	2,997,650	4,669,650	3,151,650	3,158,650	3,212,650	3,272,650	3,332,650	3,392,650	3,452,650	47,500,250	
Combined Available Funding		2,331,		,			60,509	60,509	60,509	52,744	51,245	45,133	45,133	45,133	45,133	45,133	45,133	992,362	
Combined Avanable Funding Combined Operating Expenses		2,331, (444,		2,432,531	3,195,659 (534,199)	2,987,159 (546,226)	3,222,159	3,247,159	3,058,159	4,722,394	3,202,895	3,203,783	3,257,783	3,317,783	3,377,783	3,437,783	3,497,783	48,492,612	
Oversizing Watermains			100	(522,526)	(334,199)	(340,226)	(816,781)	(829,541)	(842,683)	(842,683)	(842,683)	(842,683)	(842,683)	(842,683)	(842,683)	(842,683)	(842,683)	(11,277,950)	
Combined Debt Service (P+I) - Water Fund		(161,		(571 295)	(011 707)	(1.034.040)	(1.057.000)	(1.050.017)	(1.261.000)	(1.400.070)	(1.200.204	(1.252.000)	(1.246.045)	(1 202 100)	(1.216.100)	(1.000.000)	(1.070.010)	(161,861)	
Combined Debt Service (P+1) - water Fund Combined Cash Flow - Water Fund		(459,		(574,285)	(911,707)	(1,024,049)	(1,057,283)	(1,050,917)	(1,351,888)	(1,409,069)	(1,389,204)	(1,352,906)	(1,346,047)	(1,323,499)	(1,315,122)	(1,300,375)	(1,272,819)	(17,138,294)	
Comonica Cash riow - water rund		1,266,	204	1,335,720	1,749,753	1,416,884	1,348,095	1,366,701	863,588	2,470,642	971,008	1,008,194	1,069,053	1,151,601	1,219,978	1,294,725	1,382,281	19,914,507	

#### 9/4/2015

The information presented is intended solely for financial planning purposes

#### City of Lake Elmo Growth Projections Roll up of Residential and Commercial Revenue vs Debt Service Payments Sewer Fund 2015-2020 (7-10 year absorption rate)

REVENUE IMPACT	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
Buildouts																	
Residential	41	100	130	210	210	210	210	120	120	120	115	100	100	100	100	100	2086
Commercial	35	94	70	135	90	70	86	20	0	0	0	0	0	0	0	0	600
										27.2	7.0						
EXISTING -SEWER FUND (8/25/15)																	
Existing Sewer Fund Revenue (Non-usage)	x	1,433,000	1,339,000	1,665,000	1,314,000	1,219,000	1,043,000	578,000	618,000	618,000	553,000	538,000	538,000	538,000	538,000	538,000	13,070,000 SACS
Existing Sewer Fund Usage Revenue	х	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,500,000
Total Annual Existing Revenue		1,533,000	1,439,000	1,765,000	1,414,000	1,319,000	1,143,000	678,000	718,000	718,000	653,000	638,000	638,000	638,000	638,000	638,000	14,570,000
Existing Assessment Revenue	х	520,313	428,688	89,844	89,844	89,844	89,844	89,844	89,844	89,844	89,844	89,844	89,844	89,844	89,844	89,844	2,116,968 P+I
Total Existing Available Funding		2,053,313	1,867,688	1,854,844	1,503,844	1,408,844	1,232,844	767,844	807,844	807,844	742,844	727,844	727,844	727,844	727,844	727,844	16,686,968
Existing Operating Expenses	х	(122,488)	(122,488)	(126,163)	(129,948)	(133,846)	(137,861)	(141,997)	(146,257)	(150,645)	(155,164)	(159,819)	(164,614)	(169,552)	(174,639)	(179,878)	(2,215,358)
Existing Debt service (P+I) - Sewer Fund	х	(326,390)	(372,347)	(372,703)	(373,010)	(368,217)	(371, 199)	(366,277)	(366,277)	(366,277)	(366,277)	(366,277)	(366,277)	(366,277)	(366,277)	(366,277)	(5,480,359)
Existing Net Cash Flow - Sewer Fund		1,604,435	1,372,853	1,355,978	1,000,886	906,781	723,783	259,569	295,309	290,922	221,402	201,747	196,953	192,015	186,928	181,689	8,991,251
								<i></i>									
PROJECTED IMPACT WITH FULL DOWNTO	WN PROJECT																
New Sewer Fund Revenue (Non-usage)	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Sewer Fund Usage Revenue	x	64,800	235,800	379,800	645,300	843,300	1,011,300	1,203,300	1,269,300	1,305,300	1,341,300	1,375,800	1,405,800	1,435,800	1,465,800	1,495,800	15,478,500
Total Annual Sewer Fund Revenue	x	64,800	235,800	379,800	645,300	843,300	1,011,300	1,203,300	1,269,300	1,305,300	1,341,300	1,375,800	1,405,800	1,435,800	1,465,800	1,495,800	15,478,500
New annual assessment revenue		210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	210,990	3,164,850 P+I
Total New Available Funding		275,790	446,790	590,790	856,290	1,054,290	1,222,290	1,414,290	1,480,290	1,516,290	1,552,290	1,586,790	1,616,790	1,646,790	1,676,790	1,706,790	18,643,350
New Operating Expenses	x	(61,244)	(63,081)	(64,974)	(66,923)	(68,931)	(70,999)	(73,129)	(75,322)	(77,582)	(79,910)	(82,307)	(84,776)	(87,319)	(89,939)	(92,637)	(1,139,072)
New Debt Service (P+I) - Sewer Fund	x	0	(15,833)	(15,505)	(68,511)	(66,850)	(65,189)	(63,528)	(63,528)	(63,528)	(63,528)	(63,528)	(63,528)	(63,528)	(63,528)	(63,528)	(803,640)
New Cash Flow - Sewer Fund		214,546	367,876	510,311	720,856	918,509	1,086,102	1,277,633	1,341,440	1,375,180	1,408,852	1,440,955	1,468,486	1,495,943	1,523,323	1,550,625	16,700,638
Combined																	
Combined Sewer Fund Revenue (Non-usage)		1,433,000	1,339,000	1,665,000	1,314,000	1,219,000	1,043,000	578,000	618,000	618,000	553,000	538,000	538,000	538,000	538,000	538,000	13,070,000
Combined Sewer Fund Usage Revenue		164,800	335,800	479,800	745,300	943,300	1,111,300	1,303,300	1,369,300	1,405,300	1,441,300	1,475,800	1,505,800	1,535,800	1,565,800	1,595,800	16,978,500
Combined Annual Debt Service - Sewer		1,597,800	1,674,800	2,144,800	2,059,300	2,162,300	2,154,300	1,881,300	1,987,300	2,023,300	1,994,300	2,013,800	2,043,800	2,073,800	2,103,800	2,133,800	30,048,500
Combined annual assessment revenue		731,303	639,678	300,834	300,834	300,834	300,834	300,834	300,834	300,834	300,834	300,834	300,834	300,834	300,834	300,834	5,281,818
Combined Available Funding		2,329,103	2,314,478	2,445,634	2,360,134	2,463,134	2,455,134	2,182,134	2,288,134	2,324,134	2,295,134	2,314,634	2,344,634	2,374,634	2,404,634	2,434,634	35,330,318
Combined Operating Expenses		(183,732)	(185,569)	(191,136)	(196,870)	(202,777)	(208,860)	(215,126)	(221,579)	(228,227)	(235,074)	(242,126)	(249,390)	(256,871)	(264,577)	(272,515)	(3,354,430)
Combined Debt Service (P+I) - Sewer Fund		(326,390)	(388,180)	(388,208)	(441,521)	(435,067)	(436,388)	(429,805)	(429,805)	(429,805)	(429,805)	(429,805)	(429,805)	(429,805)	(429,805)	(429,805)	(6,283,999)
Combined Cash Flow - Sewer Fund		1,818,981	1,740,729	1,866,289	1,721,742	1,825,290	1,809,886	1,537,203	1,636,749	1,666,102	1,630,255	1,642,703	1,665,439	1,687,957	1,710,251	1,732,314	25,691,889