

# Water and Sewer Fund Presentation

Evanston City Council  
April 12, 2010

# Introduction

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- Sewer and water funds face many challenges
- Significant infrastructure needs from deferred maintenance
- Declining water sales have reduced incoming revenues
- Need additional revenues and/or debt restructuring
- Evanston is not alone and many providers face the same issues

# Agenda

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- Sewer Fund
- Water Fund
- Wholesale Water Customers
- Public Outreach
- Alternative Energy Sources

# Sewer Fund

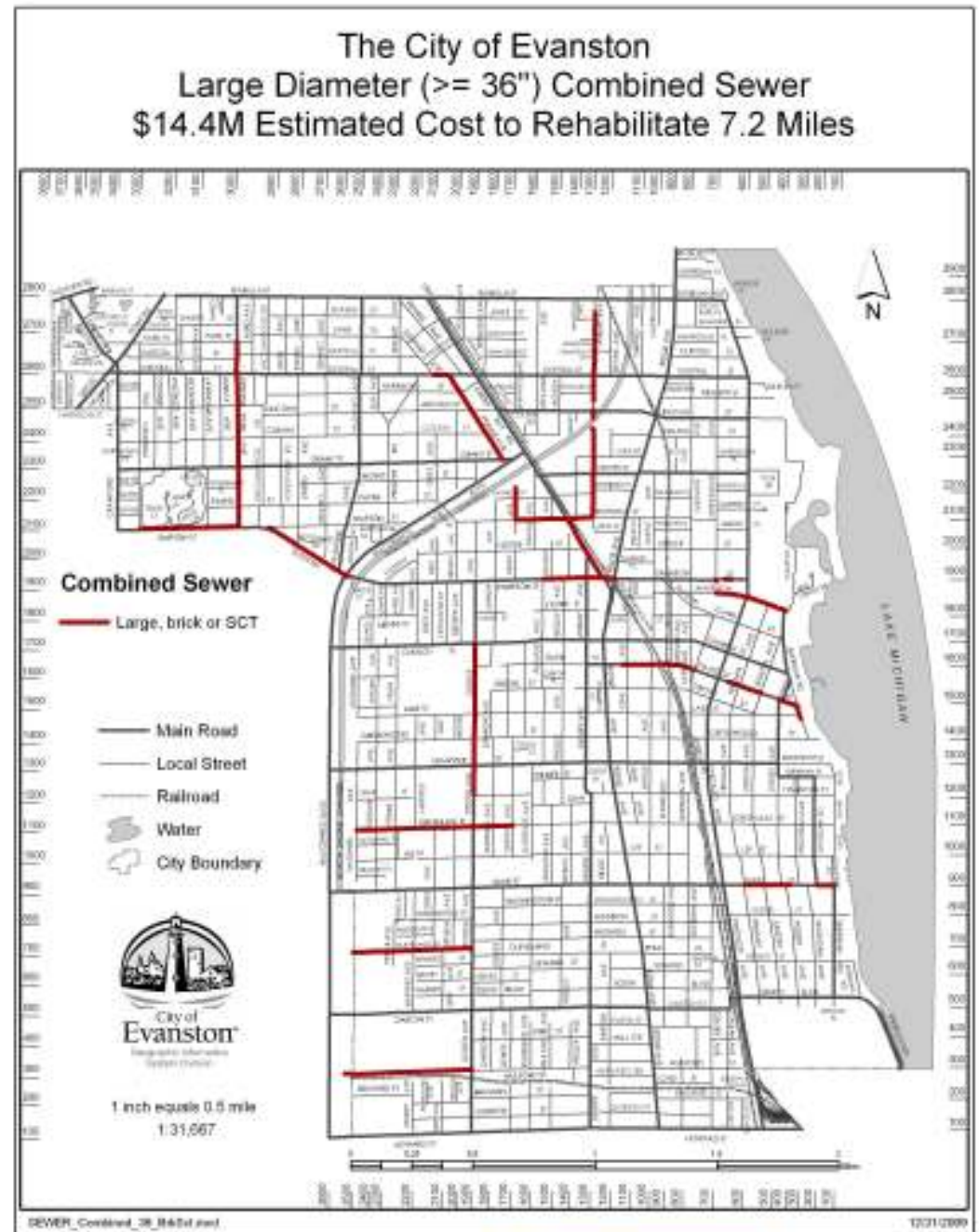
# Sewer Infrastructure Needs

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- Completed the initial long range sewer plan
  - Built a new relief sewer to handle stormwater – did NOT address existing sewer system
  - Constructed over 18 years
  - Cost \$210 M
  - Many significant rain events in past 3 years have resulted in few basement backups due to the sewer system surcharging



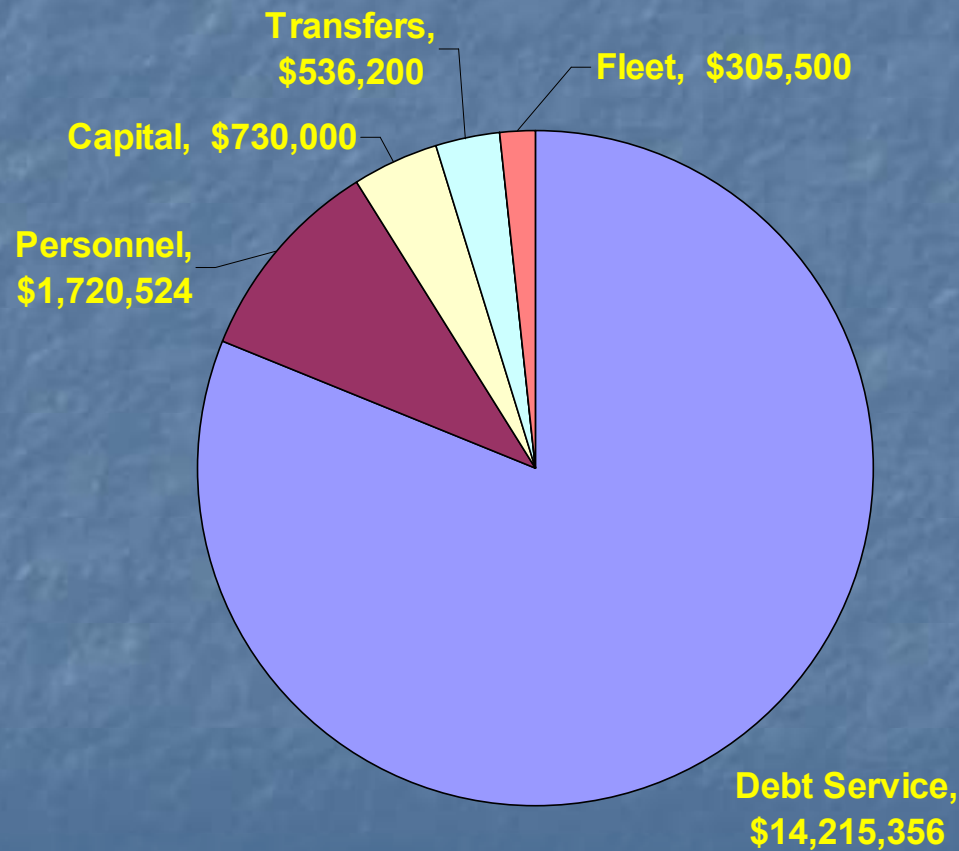
# Combined Sewer System



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# Sewer Spending Breakdown-10/11

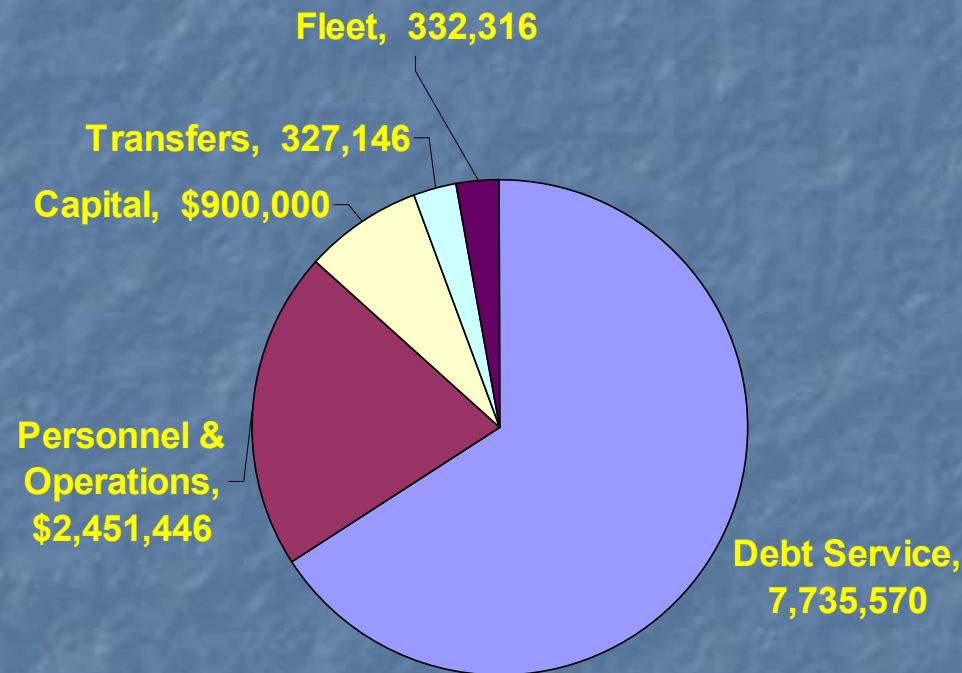
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**Total FY10/11 Sewer Budget is \$17,507,580**

# Sewer Spending Breakdown-17/18

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**Total FY17/18 Sewer Projection is \$11,746,478**



# Sewer Rate History

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- Last sewer rate increase in 2004
- Based on current rate, (\$3.94/100 cu ft) average Single Family Residence is paying \$417.64/year (\$1.14/day)

# Sewer Rate History

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- Historically, sewer rates were established to pay the debt service on the long range sewer program based on projected water utilization
- Between 1990 and 2000, the sewer rate was reviewed and adjusted annually based on actual costs for O&M, capital, and debt service
- This process resulted in unpredictable (often very large) rate increases being enacted on an almost annual basis
- In 2000 an ordinance was passed to stabilize the rate increases for the next 4 years

# Sewer Rate History

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- Ordinance 12-O-00 established the following proposed sewer rates:

Beginning 3/01/00	\$3.10/100 cu ft
Beginning 3/01/01	\$3.41/100 cu ft
Beginning 3/01/02	\$3.75/100 cu ft
Beginning 3/01/03	\$4.13/100 cu ft
- Ordinance 13-O-03 established the following proposed sewer rates:

Beginning 3/01/03	\$3.75/100 cu ft
Beginning 3/01/04	\$3.94/100 cu ft
Beginning 3/01/05	\$4.13/100 cu ft
- The proposed rate increase on 3/01/05 was postponed pending the results of a cost of service study
- Ordinance 94-O-05 established the sewer rate at \$3.94/100 cu ft as of 8/31/05

# Usage History

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- The 2005 rate was based on the estimated water usage of 4,135,800 CCF (100 cu ft)
- Actual water usage has been substantially less than projected – the 2009 and 2010 budgets were based on estimated water usage of 3,600,000 CCF
- Actual water usage in FY09/10 was 3,363,700 CCF
- This is 19% below the 2005 usage level. In order to maintain revenues, a 19% rate increase would have been needed



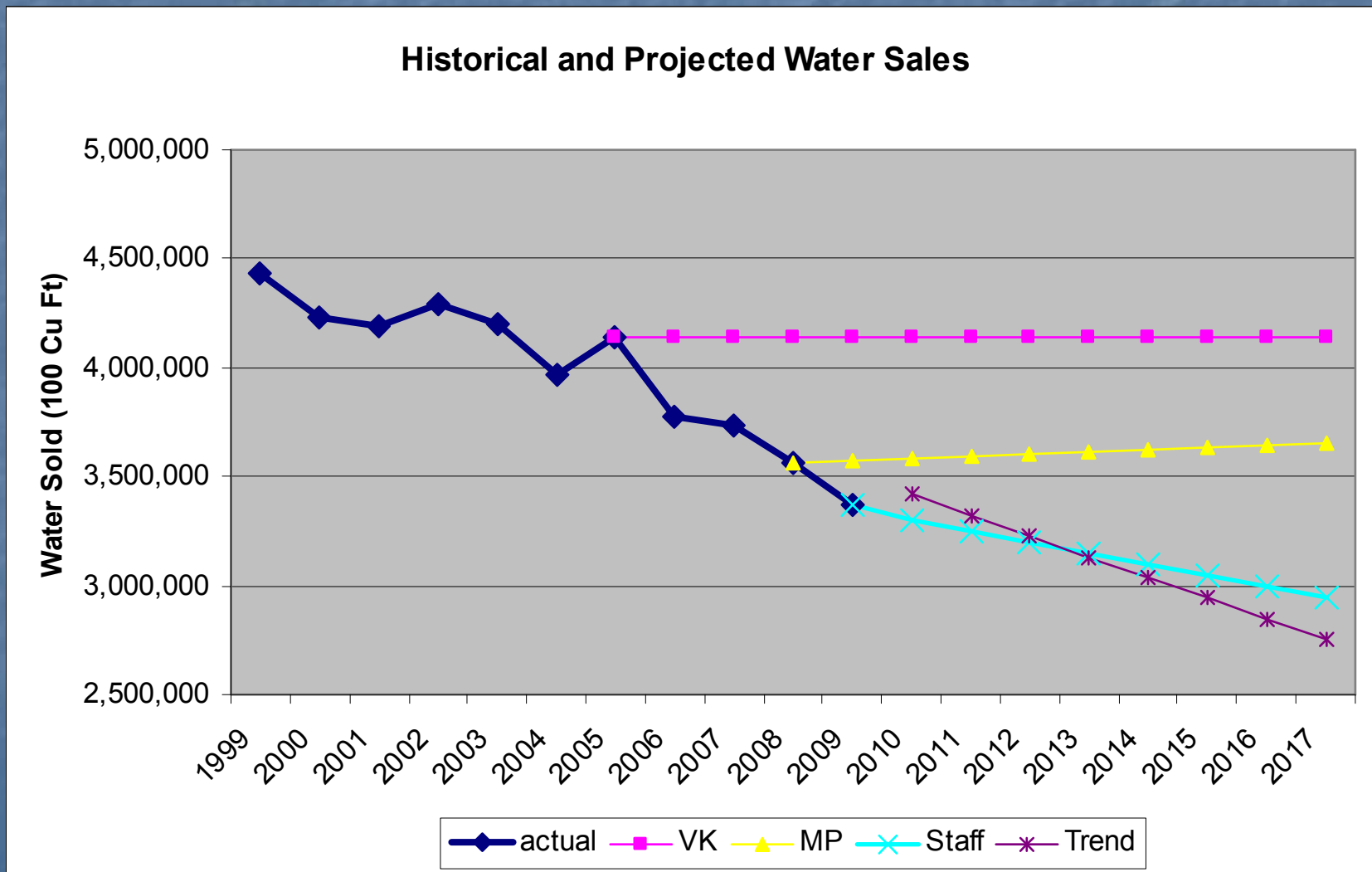
# Usage History

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- Since 1998...
  - Evanston's water usage has decreased more than 16%
  - Skokie's water usage has decreased 26%
  - NWC's water usage has decreased by 13% while the population served has increased by 11%
- CMAP indicates that Chicago's consumption has decreased 18% since 1990 with a concurrent population growth of 24%



# Evanston Water Consumption



# Existing Sewer Fund Shortfall

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- Malcolm Pirnie completed a cost of service study in 2008 indicating rate increases were needed to cover operating and debt service
  - Sewer rate was not adjusted
  - Water sales declined below the projected amounts
- The current FY10/11 budget projects the sewer fund balance to be below \$200,000 by the end of this budget year
- Based on actual FY09/10 revenues and FY10/11 budget, the sewer fund balance will have a \$1M deficit at the end of the current budget year

# Sewer Fund – Actual vs. Projected

	As Shown in FY 10/11 Budget		Based on Actual Water Sales as of 2/28/10	
	FY 09/10 Estimated	FY 10/11 Proposed	FY 09/10 Actual	FY 10/11 Proposed
<b>CCF Water Sold</b>	3,600,000	3,600,000	3,363,728	3,600,000
<b>Revenue</b>	\$14,640,377	\$14,288,000	\$13,622,967	\$14,288,000
<b>Expenses</b>	\$2,914,557	\$3,292,224	\$3,127,797	\$3,292,224
<b>Debt Service</b>	\$14,054,700	\$14,215,356	\$14,102,111	\$14,215,356
<b>Total Expenses</b>	\$16,969,257	\$17,507,580	\$17,229,908	\$17,507,580
<b>Beginning Fund Balance</b>	\$5,735,564	\$3,406,684	\$5,735,564	\$2,128,622
<b>Ending Fund Balance</b>	\$3,406,684	<b>\$187,104</b>	\$2,128,622	<b>(\$1,090,958)</b>

# Options for Balancing the Sewer Fund

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- Based on lower usage levels in 2009-10, the 2010-11 budget requires either a rate increase of at least 8% or a bond issue of \$1.1 M
- In future years, more bonds must be issued and/or a rate increase will be needed to reach 2013 when existing debt begins to retire

# Sewer Revenue Increase – Option S1

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- \$12M in bonds over three years with debt service paid from the Sewer Fund
- The debt service on these bonds will be \$963,000 annually for 20 years
- Three annual rate increases of 6%, 7% and 8% beginning on January 1, 2011



# Sewer Budget – Option S1

	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>	<b>FY 15/16</b>
<b>CCF Water</b>	3,600,000	3,250,000	3,200,000	3,150,000	3,100,000	3,050,000
<b>Sewer Rate</b>	\$3.94	\$4.18	\$4.47	\$4.83	\$4.83	\$4.83
<b>Rate Increase</b>	--	6%	7%	8%	--	--
<b>Revenues</b>	\$13.3 M	\$13.7 M	\$14.4 M	\$15.3 M	\$15.1 M	\$14.8 M
<b>New Bonds</b>	\$3.0 M	\$4.0 M	\$5.0 M	--	--	--
<b>Total Revenue</b>	<b>\$17.3 M</b>	<b>\$17.7 M</b>	<b>\$19.4 M</b>	<b>\$15.3 M</b>	<b>\$15.1 M</b>	<b>\$14.8 M</b>
<b>Expenses</b>	\$3.3 M	\$3.6 M	\$3.6 M	\$3.7 M	\$3.7 M	\$3.8 M
<b>Exist. Debt Service</b>	\$14.2 M	\$14.2 M	\$14.1 M	\$11.4 M	\$9.7 M	\$9.3 M
<b>New Debt Service</b>	--	\$0.2 M	\$0.6 M	\$1.0 M	\$1.0 M	\$1.0 M
<b>Total Expenses</b>	<b>\$17.5 M</b>	<b>\$18.0 M</b>	<b>\$18.3 M</b>	<b>\$16.1 M</b>	<b>\$14.4 M</b>	<b>\$14.1 M</b>
<b>Unrestricted Fund Balance</b>	<b>\$2.1 M</b>	<b>\$1.8 M</b>	<b>\$2.9 M</b>	<b>\$2.2 M</b>	<b>\$2.8 M</b>	<b>\$3.6 M</b>

# Sewer Revenue Increase – Option S2

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- \$10M in bonds over three years with debt service paid from a property tax levy to the General Fund
- The debt service on these bonds will be \$803,000 annually for 20 years
- Three annual rate increases of 6%, 7% and 8% beginning on January 1, 2011

# Sewer Budget – Option S2

	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>	<b>FY 15/16</b>
<b>CCF Water</b>	3,600,000	3,250,000	3,200,000	3,150,000	3,100,000	3,050,000
<b>Sewer Rate</b>	\$3.94	\$4.18	\$4.47	\$4.83	\$4.83	\$4.25
<b>Rate Increase</b>	--	6%	7%	8%	--	-12%
<b>Revenues</b>	\$13.3 M	\$13.7 M	\$14.4 M	\$15.3 M	\$15.1 M	\$13.1 M
<b>New Bonds</b>	\$3.0 M	\$4.0 M	\$3.0 M	--	--	--
<b>Total Revenue</b>	<b>\$17.3 M</b>	<b>\$17.7 M</b>	<b>\$17.4 M</b>	<b>\$15.3 M</b>	<b>\$15.1 M</b>	<b>\$13.1 M</b>
<b>Expenses</b>	\$3.3 M	\$3.6 M	\$3.6 M	\$3.7 M	\$3.8 M	\$3.8 M
<b>Exist. Debt Service</b>	\$14.2 M	\$14.2 M	\$14.1 M	\$11.4 M	\$9.7 M	\$9.3 M
<b>Total Expenses</b>	<b>\$17.5 M</b>	<b>\$17.8 M</b>	<b>\$17.7 M</b>	<b>\$15.1 M</b>	<b>\$13.5 M</b>	<b>\$13.1 M</b>
<b>Unrestricted Fund Balance</b>	<b>\$2.1 M</b>	<b>\$2.0 M</b>	<b>\$1.7 M</b>	<b>\$1.9 M</b>	<b>\$3.5 M</b>	<b>\$3.5 M</b>
<b>GF Property Tax Levy</b>		<b>\$0.24 M</b> 0.6%	<b>\$0.56 M</b> 1.4%	<b>\$0.8 M</b> 2.0%	<b>\$0.8 M</b> 2.0%	<b>\$0.8 M</b> 2.0%

# Sewer Revenue Increase – Option S3

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- \$17 M in bonds over 4 years with debt service paid from a property tax levy to the General Fund
- The debt service on these bonds will be \$1,364,000 annually for 20 years
- No sewer rate increase



# Sewer Budget – Option S3

	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>	<b>FY 15/16</b>
<b>CCF Water</b>	3,600,000	3,250,000	3,200,000	3,150,000	3,100,000	3,050,000
<b>Sewer Rate</b>	\$3.94	\$3.94	\$3.94	\$3.94	\$3.94	\$3.94
<b>Rate Increase</b>	--	--	--	--	--	--
<b>Revenues</b>	\$14.3 M	\$12.9 M	\$12.7 M	\$13.3 M	\$12.3 M	\$12.1 M
<b>New Bonds</b>	\$5.0 M	\$4.0 M	\$4.0 M	\$3.0 M	--	--
<b>Total Revenue</b>	<b>\$18.3 M</b>	<b>\$16.9 M</b>	<b>\$17.7 M</b>	<b>\$16.6 M</b>	<b>\$12.3 M</b>	<b>\$12.1 M</b>
<b>Expenses</b>	\$3.3 M	\$3.6 M	\$3.6 M	\$3.7 M	\$3.8 M	\$3.8 M
<b>Exist. Debt Service</b>	\$14.2 M	\$14.2 M	\$14.1 M	\$11.4 M	\$9.7 M	\$9.3 M
<b>Total Expenses</b>	<b>\$17.5 M</b>	<b>\$17.8 M</b>	<b>\$17.7 M</b>	<b>\$15.1 M</b>	<b>\$13.5 M</b>	<b>\$13.1 M</b>
<b>Unrestricted Fund Balance</b>	<b>\$3.1 M</b>	<b>\$2.3 M</b>	<b>\$2.3 M</b>	<b>\$3.7 M</b>	<b>\$2.6 M</b>	<b>\$1.6 M</b>
<b>GF Property Tax Levy</b>		<b>\$0.4 M</b> <b>1.0%</b>	<b>\$0.72 M</b> <b>1.8%</b>	<b>\$1.0 M</b> <b>2.5%</b>	<b>\$1.3 M</b> <b>3.2%</b>	<b>\$1.3 M</b> <b>3.2%</b>



# 5-Year Impact of Sewer Charge to Single Family Residence

	Additional Sewer Rate Charges	Additional Property Tax Charges	Total Additional Costs	Cost/Year
Option 1	\$372	\$0	\$372	\$74
Option 2	\$309	\$160	\$469	\$94
Option 3	\$0	\$234	\$234	\$47

Additional property tax costs are based on a residence with a current total tax bill of \$10,000 and are for the total amount of bonds in that option.

# Sewer Rate Comparison

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- Communities bill on different units and rate structures
- To make a fair comparison, all sewer rates have been converted to Cost/1,000 gallons
- Evanston Rate:
  - \$3.94/100 cu ft = \$5.27/1,000 gal
  - \$4.83/100 cu ft = \$6.46/1,000 gal (S1 or S2)

# Sewer Rate Comparison

Community	Sewer Rate/1000 gal
Highland Park	\$0.45 + \$6.00 monthly fee
Buffalo Grove	\$0.60
Northbrook	\$0.80
Glencoe	\$0.92
Wheeling	\$1.15
Lake Forest	\$1.16
Wilmette	\$1.34
Chicago	\$1.73
Palatine (in village)	\$2.42

Community	Sewer Rate/1000 gal
Deerfield	\$3.40
Palatine (outside village)	\$3.94
Arlington Heights	\$4.36
Lincolnshire (in village)	\$5.12
<b>Evanston</b>	<b>\$5.27</b>
Lincolnshire (outside village)	\$5.63

# Property Tax Levy Issues

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- Residents can realize a tax benefit from the addition of this fee on the property tax instead of as a rate increase
- Consider levying an additional reasonable charge on the sewer bill to not-for-profit customers



# Reasonable Charge for Not-for-Profit Customers

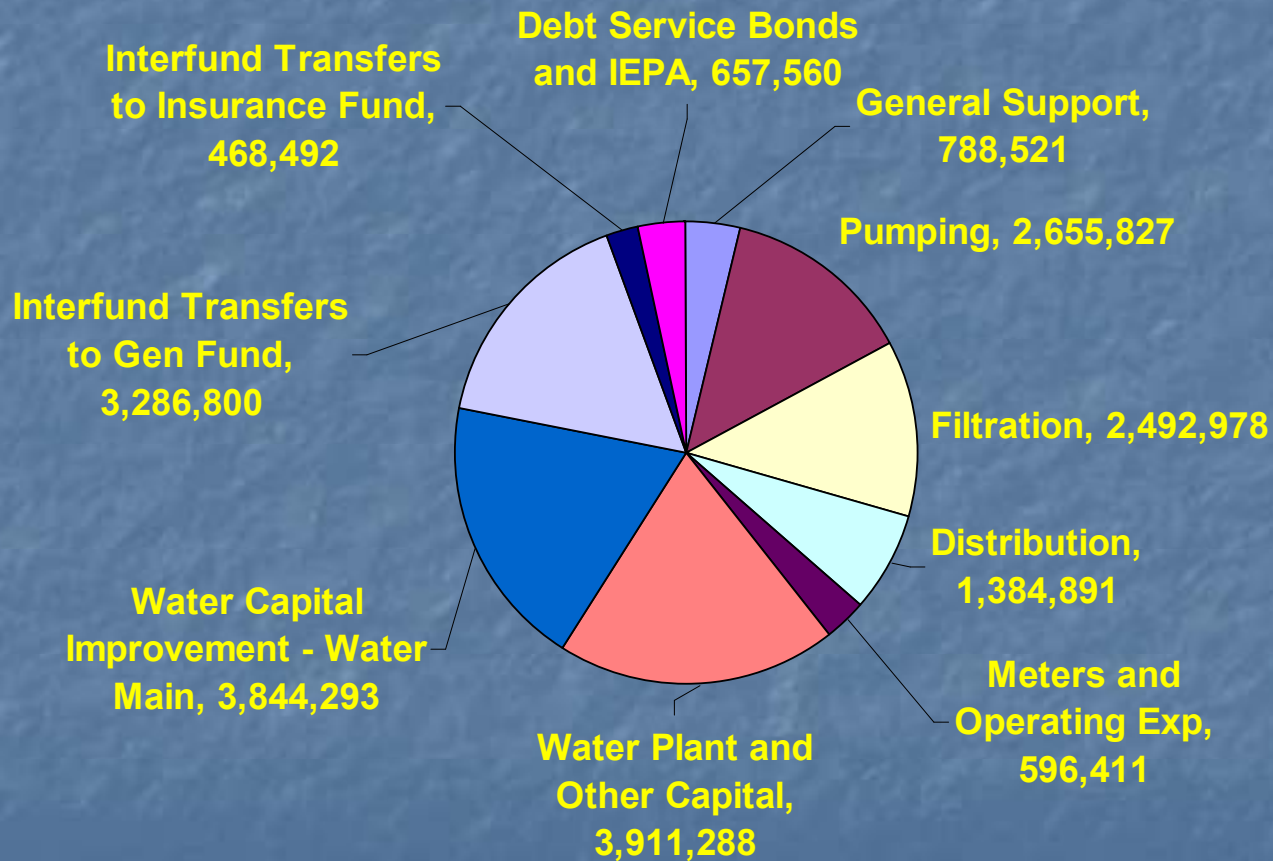
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- Focus on largest 25% – 30% of these customers
- By increasing the sewer rate by 25% for this group, could potentially generate \$500,000 - \$600,000 annually



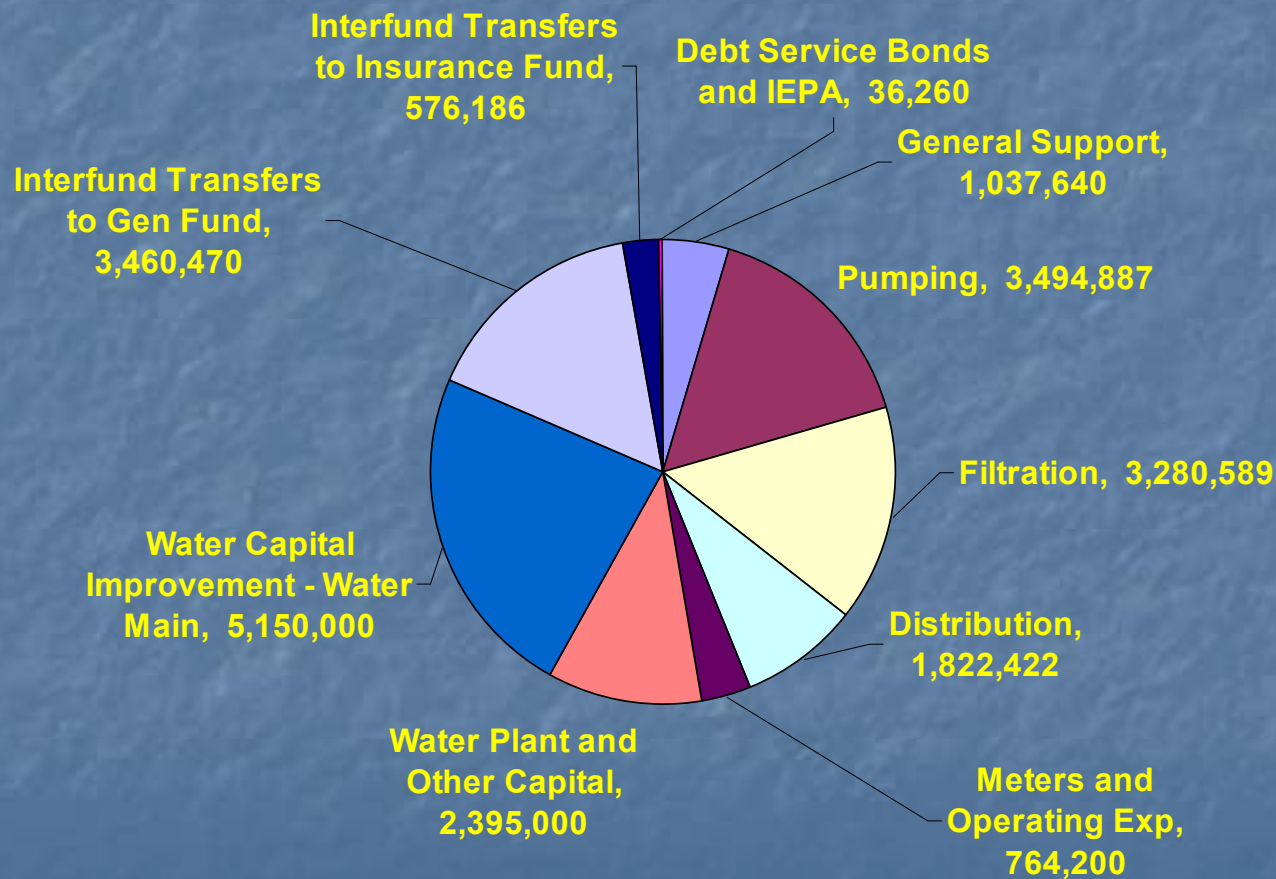
# Water Fund

# Water Spending Breakdown-10/11



**Total FY10/11 Water Budget is \$20,087,061**

# Water Spending Breakdown-17/18



**Total FY17/18 Water Budget is \$22,017,654**

# Water Rate History

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- Last water rate adjustment in 2006
  - Revenue neutral
  - Resulted in reduced average water bill for Single Family Residences
- Last actual water rate increase in 1998
- Based on current rate, average Single Family Residence is paying \$147.92/year (\$0.41/day)



# Water 5-Yr CIP

<b>Fiscal Year</b>	<b>Water Plant Capital Program</b>	<b>Distribution System Capital Program</b>	<b>Total Capital Spending</b>
10/11	\$3,756,000	\$3,844,000	\$7.6M
11/12	\$1,637,000	\$3,250,000	\$4.9M
12/13	\$1,810,000	\$3,525,000	\$5.3M
13/14	\$3,085,000	\$3,600,000	\$6.7M
14/15	\$5,600,000	\$3,600,000	\$9.2M
Total	\$15,888,000	\$17,819,000	\$33.7M

# Water Capital Summary

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- Capital Improvement
  - Water Treatment Plant Improvements
    - Based on the existing contract, NWC pays approximately 58% of cost of improvements as the assets are depreciated
  - Distribution System Improvements
    - Paid for entirely by Evanston residents

# Water Capital Summary

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- WTP Improvements
  - Proposed 5 year CIP of \$15.9M
    - SCADA Replacement
    - Filter Rehabilitation
    - Zebra Mussel Control System
    - Flash Mix Replacement
    - AMR System Replacement
    - Concrete Rehabilitation
- Distribution System Improvements
  - Proposed 5 year CIP of \$17.1M
    - 1.5 miles of water main replacement per year

# Water Main Improvement

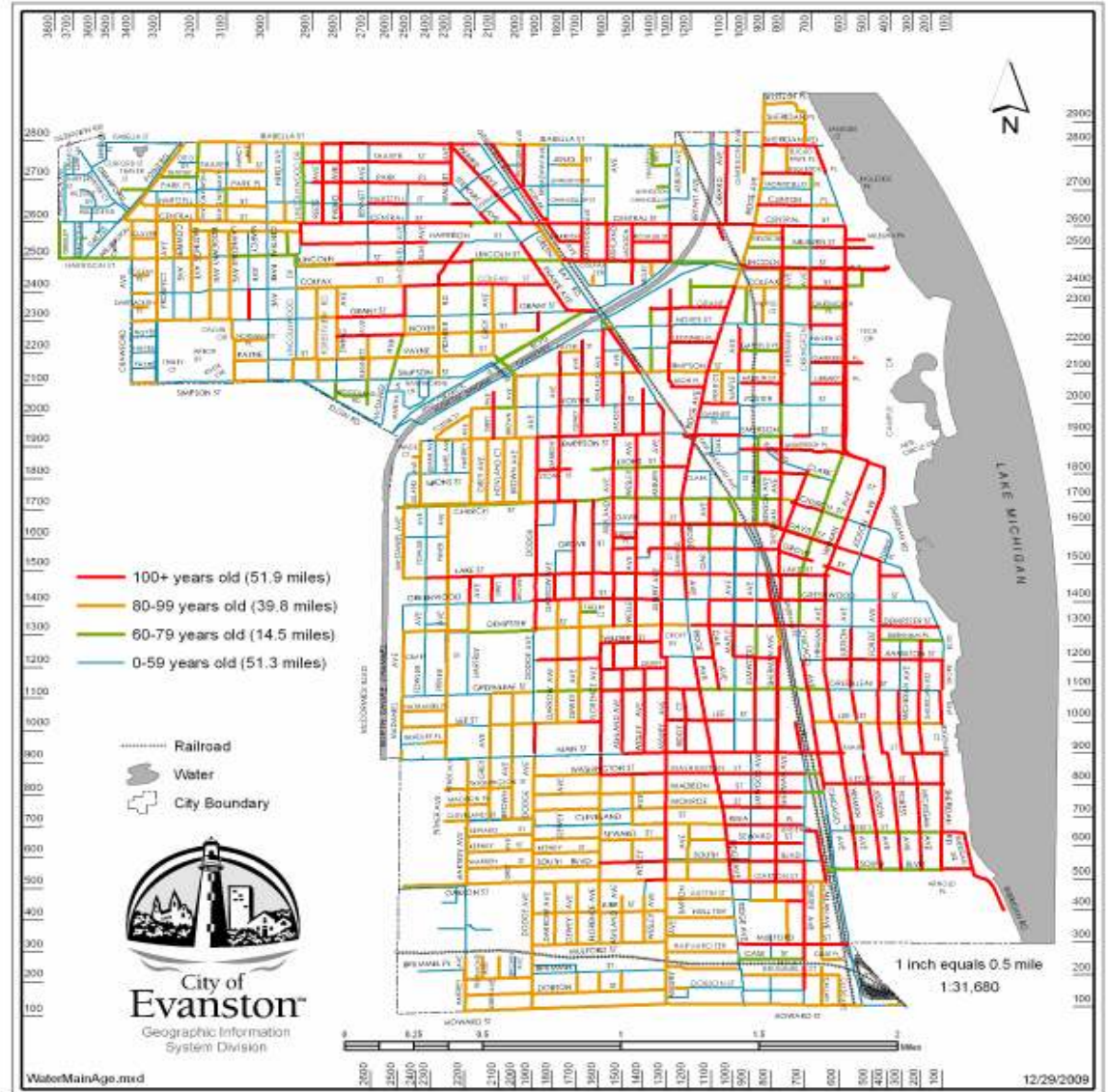
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- Funding: Approx. \$3.1M/year to replace 1.5 miles annually
- Water mains have an est. life of 100 yrs
- Evanston has 157 miles of water main
- 52 miles are over 100 years old
  - At 1.5 miles/year, 35 years to replace
- 39 miles are 80 to 99 years old
  - Start replacing in 2045 (115 to 134 yrs old)
  - At 1.5 miles/year, 26 years to replace
- Also upgrade mains for fire flow and to address maintenance problems



# Water Main Improvements

## The City of Evanston Water Distribution Mains



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# Historical Funding of CIP

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- WTP Improvements
  - Partially paid through annual revenues
  - Partially paid through water bonds (current bonds expire in 2013)
  - NWC pays approximately 58% as asset depreciates
- Distribution System Improvements
  - Paid through annual revenues
  - Issuing Debt for distribution system capital, which will continue for 100 years is not the optimal solution (needless interest costs in such a case)

# Water Fund Trend

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	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>	<b>FY 15/16</b>
<b>Total Revenue</b>	<b>\$15.4 M</b>	<b>\$12.8 M</b>	<b>\$13.1 M</b>	<b>\$13.4 M</b>	<b>\$13.5 M</b>	<b>\$13.6 M</b>
<b>Total Expenses</b>	<b>\$20.1 M</b>	<b>\$17.7 M</b>	<b>\$18.3 M</b>	<b>\$20.0 M</b>	<b>\$23.9 M</b>	<b>\$22.2 M</b>
<b>Net (Deficit)</b>	<b>(\$4.7 M)</b>	<b>(\$4.9 M)</b>	<b>(\$5.2 M)</b>	<b>(\$6.6 M)</b>	<b>(\$10.4 M)</b>	<b>(\$8.6 M)</b>



# Water Revenue Increase – Option W1

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- \$18.1 M in bonds over four years with debt service paid from the Water Fund
- The debt service on these bonds will be \$1.45 million annually for 20 years
- Three annual rate increases of 10%, 5% and 3% beginning on January 1, 2011, Future adjustments needed, otherwise Water Fund goes negative in 2014



# Water Budget – Option W1

	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>	<b>FY 15/16</b>
<b>CCF Water</b>	3,600,000	3,250,000	3,200,000	3,150,000	3,100,000	3,050,000
<b>Water Rate</b>	\$1.52	\$1.67	\$1.75	\$1.80	\$1.80	\$1.80
<b>Rate Increase</b>	--	10%	5%	3%	0%	0%
<b>Revenues</b>	\$15.4 M	\$12.8 M	\$13.2 M	\$13.4 M	\$13.5 M	\$13.5 M
<b>New Bonds</b>	\$3.5 M	\$4.8 M	\$5.3 M	\$4.5 M	--	--
<b>Total Revenue</b>	<b>\$18.9 M</b>	<b>\$17.6 M</b>	<b>\$18.5 M</b>	<b>\$17.9 M</b>	<b>\$13.5 M</b>	<b>\$13.5 M</b>
<b>Expenses</b>	\$12.5 M	\$12.8 M	\$12.9 M	\$13.3 M	\$13.4 M	\$13.8 M
<b>Capital Improvement</b>	\$7.6 M	\$4.9 M	\$5.3 M	\$6.7 M	\$9.2 M	\$8.5 M
<b>New Debt Service</b>	--	\$0.3 M	\$0.7 M	\$1.1 M	\$1.45 M	\$1.45 M
<b>Total Expenses</b>	<b>\$20.1 M</b>	<b>\$18.0 M</b>	<b>\$18.9 M</b>	<b>\$21.1 M</b>	<b>\$24.0 M</b>	<b>\$23.7 M</b>
<b>Unrestricted Fund Balance</b>	<b>\$4.9 M</b>	<b>\$4.6 M</b>	<b>\$4.1 M</b>	<b>\$1.0 M</b>	<b>(\$9.5 M)</b>	<b>(\$19.6 M)</b>

# Water Revenue Increase – Option W2

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- \$17 M in bonds over four years with debt service paid from a property tax levy to the General Fund
- The debt service on these bonds will be \$1,364,000 annually for 20 years
- Three annual rate increases of 10%, 5% and 3% beginning on January 1, 2011
- Future adjustments needed, otherwise Water Fund goes negative in 2014

# Water Budget – Option W2

	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>	<b>FY 15/16</b>
<b>CCF Water</b>	3,600,000	3,250,000	3,200,000	3,150,000	3,100,000	3,050,000
<b>Water Rate</b>	\$1.52	\$1.67	\$1.75	\$1.80	\$1.80	\$1.80
<b>Rate Increase</b>	--	10%	5%	3%	--	--
<b>Revenues</b>	\$15.4 M	\$12.8 M	\$13.2 M	\$13.4 M	\$13.5 M	\$13.5 M
<b>New Bonds</b>	\$3.5 M	\$3.5 M	\$5.0 M	\$5.0 M	--	--
<b>Total Revenue</b>	<b>\$18.9 M</b>	<b>\$16.3 M</b>	<b>\$18.2 M</b>	<b>\$18.4 M</b>	<b>\$13.5 M</b>	<b>\$13.5 M</b>
<b>Expenses</b>	\$12.5 M	\$12.8 M	\$12.9 M	\$13.3 M	\$13.4 M	\$13.7 M
<b>Capital Improvement</b>	\$7.6 M	\$4.9 M	\$5.3 M	\$6.7 M	\$9.2 M	\$8.5 M
<b>Total Expenses</b>	<b>\$20.1 M</b>	<b>\$17.7 M</b>	<b>\$18.2 M</b>	<b>\$20.0 M</b>	<b>\$22.6 M</b>	<b>\$22.2 M</b>
<b>Unrestricted Fund Balance</b>	<b>\$4.9 M</b>	<b>\$3.5 M</b>	<b>\$3.5 M</b>	<b>\$1.9 M</b>	<b>(\$7.1 M)</b>	<b>(\$15.8 M)</b>
<b>GF Property Tax Levy</b>		<b>\$0.28 M</b> <b>0.7%</b>	<b>\$0.56 M</b> <b>1.4%</b>	<b>\$1.0 M</b> <b>2.5%</b>	<b>\$1.0 M</b> <b>2.5%</b>	<b>\$1.0 M</b> <b>2.5%</b>

# 5-Year Impact of Water Charge to Single Family Residence

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	Additional Water Rate Charges	Additional Property Tax Charges	Total Additional Costs	Cost/Year
Option W1	\$231	\$0	\$231	\$46
Option W2	\$158	\$192	\$350	\$70



# Water Rate Comparison

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- Communities bill on different units and rate structures
- To make a fair comparison, all water rates have been converted to Cost/1,000 gallons
- Evanston Rate:
  - $\$1.52/100 \text{ cu ft} = \$2.03/1,000 \text{ gal}$
  - $\$1.80/100 \text{ cu ft} = \$2.41/1,000 \text{ gal}$

# Water Rate Comparison

Community	Water Rate/1000 gal	Community	Water Rate/1000 gal
Chicago	\$2.01	Glencoe	\$3.70
Highland Park	\$2.22	Lincolnshire	\$4.08
<b>Evanston</b>	<b>\$2.03 (current)</b>	Deerfield	\$4.14
Buffalo Grove	\$2.40 + \$1.90 monthly fee	Gurnee	\$4.45
<b>Evanston</b>	<b>\$2.41 (W1 or W2)</b>	Niles	\$4.59
Wilmette	\$2.93	Wheeling	\$4.62
Northbrook	\$3.40	Arlington Heights	\$4.63
Lincolnwood	\$3.53	Morton Grove	\$5.16
Skokie	\$3.53	Lake Forest	\$6.26
Glenview	\$3.65		

# Water/Sewer Combined Rate Comparison

Community	Rate/1000 gal
Highland Park	\$2.67 + \$6.00 monthly fee
Lincolnwood	\$3.53
Buffalo Grove	\$3.38 + \$1.90 monthly fee
Skokie	\$3.53
Glenview	\$3.65 + \$6.87 monthly fee
Chicago	\$3.74
Northbrook	\$4.20
Wilmette	\$4.27

Community	Rate/1000 gal
Niles	\$4.59
Glencoe	\$4.62
Wheeling	\$5.77
<b>Evanston</b>	<b>\$7.30 (current)</b>
Lake Forest	\$7.42
Deerfield	\$7.54
<b>Evanston</b>	<b>\$7.68 (S3 &amp; W1/W2)</b>
Arlington Heights	\$8.99
Lincolnshire	\$9.20

# Not Just an Evanston Issue.....

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- National problem of declining water use and increased maintenance needs
- City of Chicago just completed three annual rate increases of 15%, 15%, and 14%, to all of their wholesale customers
- DuPage Water Commission is enacting a 20% rate increase in May 2010
- Illinois American, after increasing rates 10% in 2008, has requested a 30% rate increase this year
- Many suburbs and wholesale water suppliers have had to enact substantial rate increases in the last two years



# Sewer Fund Summary

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- Short-term cash flow problem until debt begins to retire in 2013
- If Option S3 selected, levy a reasonable charge to not-for-profit customers
- Complete a cost-of-service and fee study focusing on preferred solution(s) with recommendations presented in Fall 2010

# Water Fund Summary

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- Water Fund
  - Long-term revenue problem as current water usage continues to decline – revenue is not sufficient to meet minimum capital and operating costs
  - Complete a cost-of-service and fee study focusing on preferred solution(s) with recommendations presented in Fall 2010
  - In the long-term, investigate new long-term wholesale customer contracts

# Wholesale Water Customers

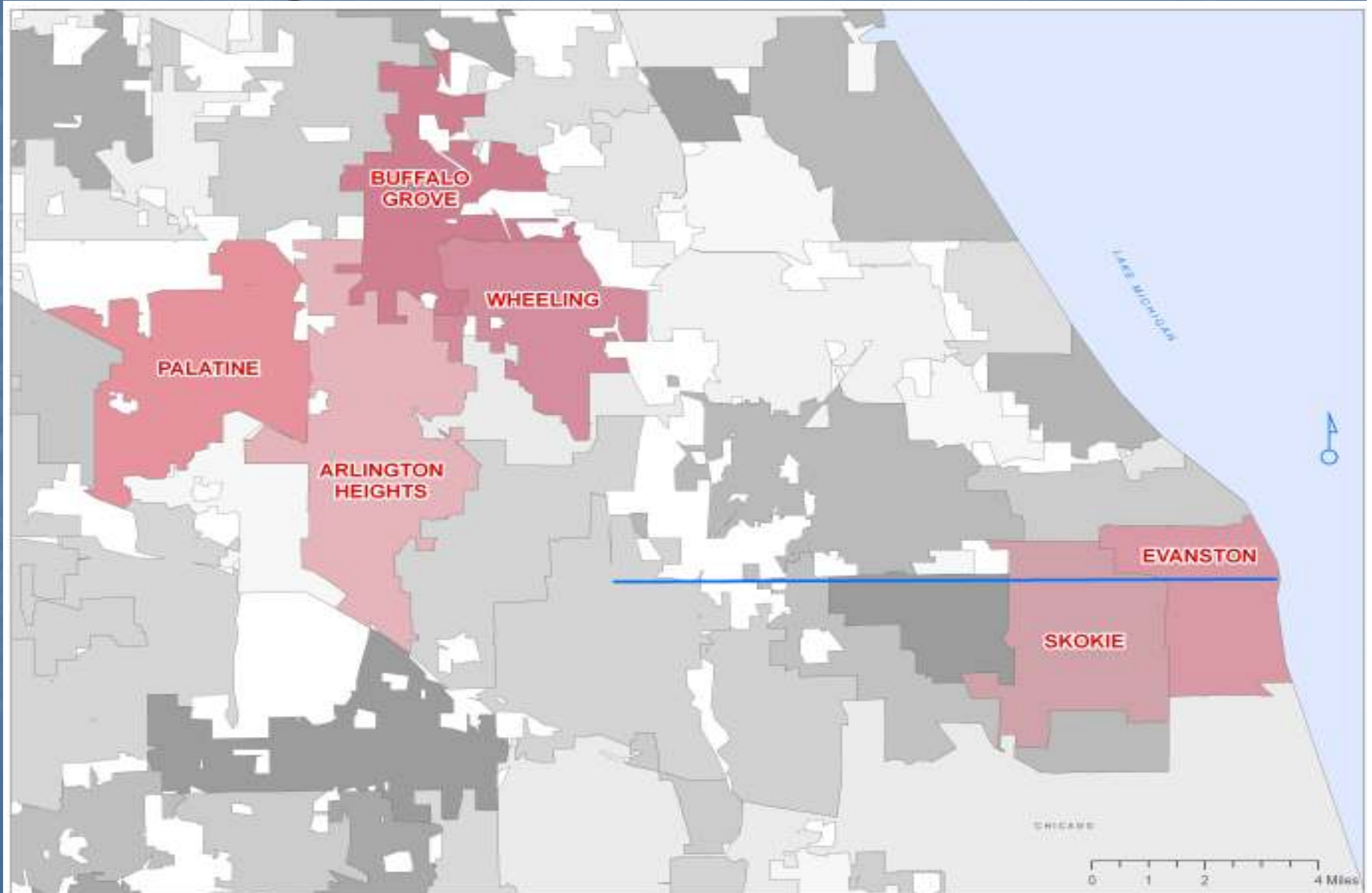
# Existing Wholesale Water Customers

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- Village of Skokie
  - Became a wholesale customer in 1944
  - Latest agreement signed in 1997
  - 20-yr term (expires in 2017)
  - Currently paying \$0.9401/1000 gal
- Northwest Water Commission
  - Became a wholesale customer in 1985
  - Latest agreement expires in 2030 +/- 5 years
  - Currently paying on average \$0.5348/1000 gal



# Existing Water Customers



# Potential New Wholesale Water Customers – Short-term Outlook

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- Use existing excess treatment plant capacity
- Minimal transmission system improvements
- Discussions with Skokie and the Northwest Water Commission about partnering
- Communities accessible through existing wholesale customers
- Action Items:
  - Complete a hydraulic analysis
  - Investigate existing wholesale water contracts of potential customers

# Potential New Wholesale Water Customers – Mid-term Outlook

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- Expansion of treatment plant capacity
- Installation of large diameter transmission main(s)
- Action Items:
  - Hire attorney to negotiate contracts
  - Contract with engineering firm to provide the planning needed to enter into contracts

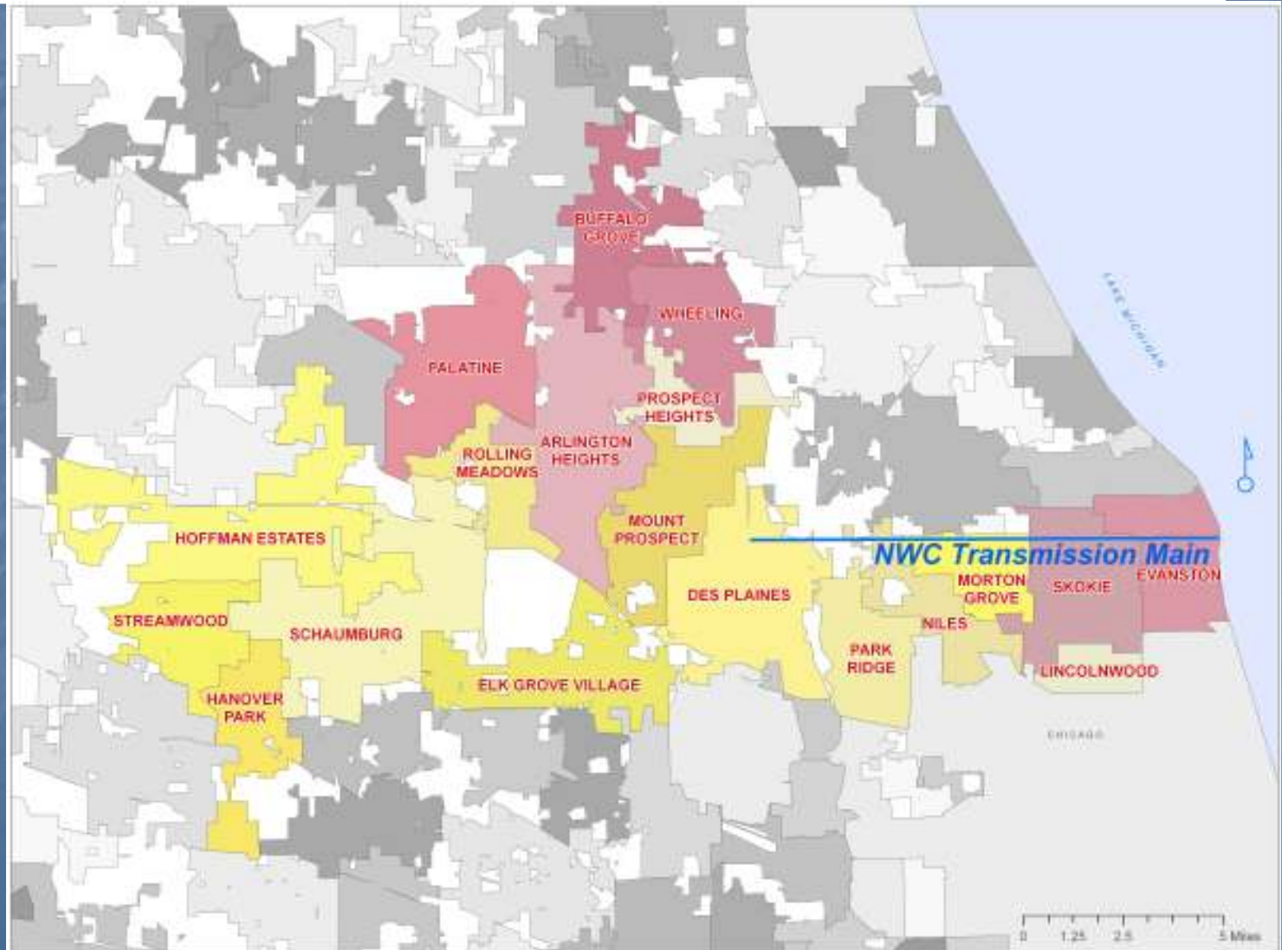
# Potential New Wholesale Water Customers – Long-term Outlook

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- Significant expansion of treatment plant capacity
- Installation of water transmission tunnels
- Action Items:
  - Enter into discussions with large water distribution authorities to become source of supply
  - Enter into discussions with proximate neighboring communities



# Long-term Water Sale Increases



# Public Outreach

# Public Outreach

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- Promote Evanston Tap Water Use
- Water Conservation
- Protection of the Water Supply

# Public Outreach – Promote Evanston Tap Water

- Earth Day Celebration – April 24
- National Drinking Water Week – May 2 – 8
  - Mayoral proclamation
  - Farmer's Market Participation
- National Public Works Week – May 16
  - Farmer's Market Participation
- Green Living Festival – October 2





# Public Outreach – Water Conservation

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- City of Evanston is an EPA WaterSense Partner
  - Provide information on website
    - Fixing leaks
    - WaterSense label



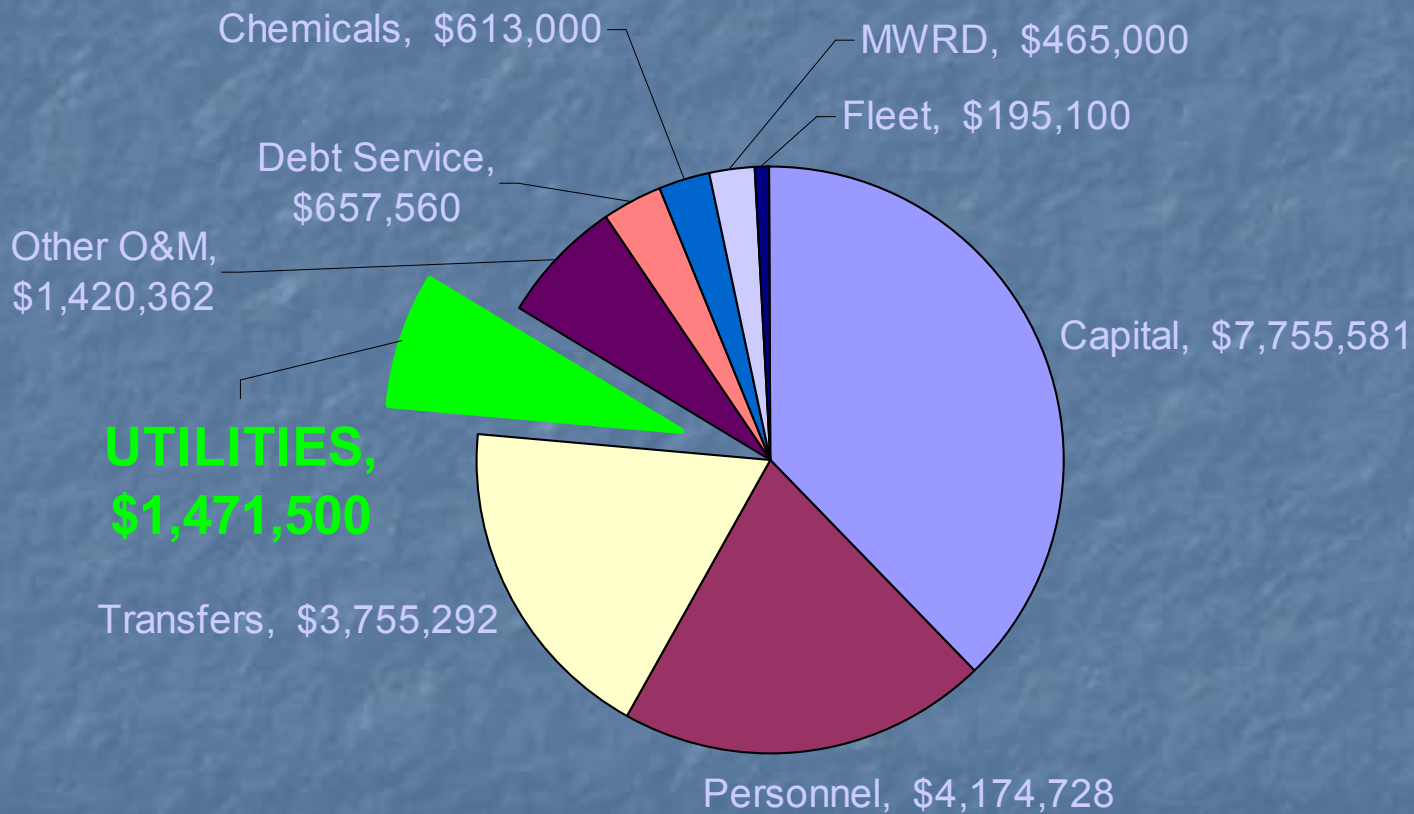
# Public Outreach – Protection of Water Supply

- Mandated by MS4 Permit to provide public outreach and information
- Public Outreach is done through website and by providing information at outreach events



# Alternative Energy

# Alternative Energy



**Utilities (Electricity + Natural Gas) are 7% of the Budget**



# Alternative Energy – Potential Sources

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- Solar Power
- Wind Power
- Fuel Cell
- Geothermal
- Waste-to-Energy



# Alternative Energy – Solar Power

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- Pilot Installation
  - 25 kW fixed solar panel
  - Located on roof of Pumping Station
  - Total Cost of \$182,954
    - \$35,000 from EECBG
    - \$109,772 from ICECF
  - Estimated completion date of May 31
  - ROI of 16 years

# Alternative Energy – Solar – Future Expansion

- Install on Mixing and Sedimentation Basins
- Estimated Installation Size (based on pilot installation data):
  - Total potential capacity = 470 kW
  - Total cost = \$2.8M
- Potential Next Steps
  - Verify structural capacity of basin roof structure
  - RFP to select provider of installation
  - Apply for grant funding (potential up to 50% - 60%)



# Alternative Energy – Wind Power Options

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- Offshore wind power
  - Can provide for significantly more energy than just water plant energy use
- Large wind turbines located on shoreline at water plant
  - Can provide approximately the energy use required by water plant
- Small wind turbines
  - Minimal power generation





# Alternative Energy – Wind Power Options

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- Purchase Renewable Energy Credits/ “Green” Power
- Long-term Contract with Offsite Power Generation Facility