



# Proposed 2012 Water / Wastewater Budget

Presentation By:

Greg Clausen, General Manager of Infrastructure Services

Nick Benkovich – Director of Water & Wastewater Services

Lorella Hayes – Chief Financial Officer / Treasurer



Date: November 24, 2011



# ISD – Water & Wastewater Services



## Agenda

Capital Segment – Greg Clausen

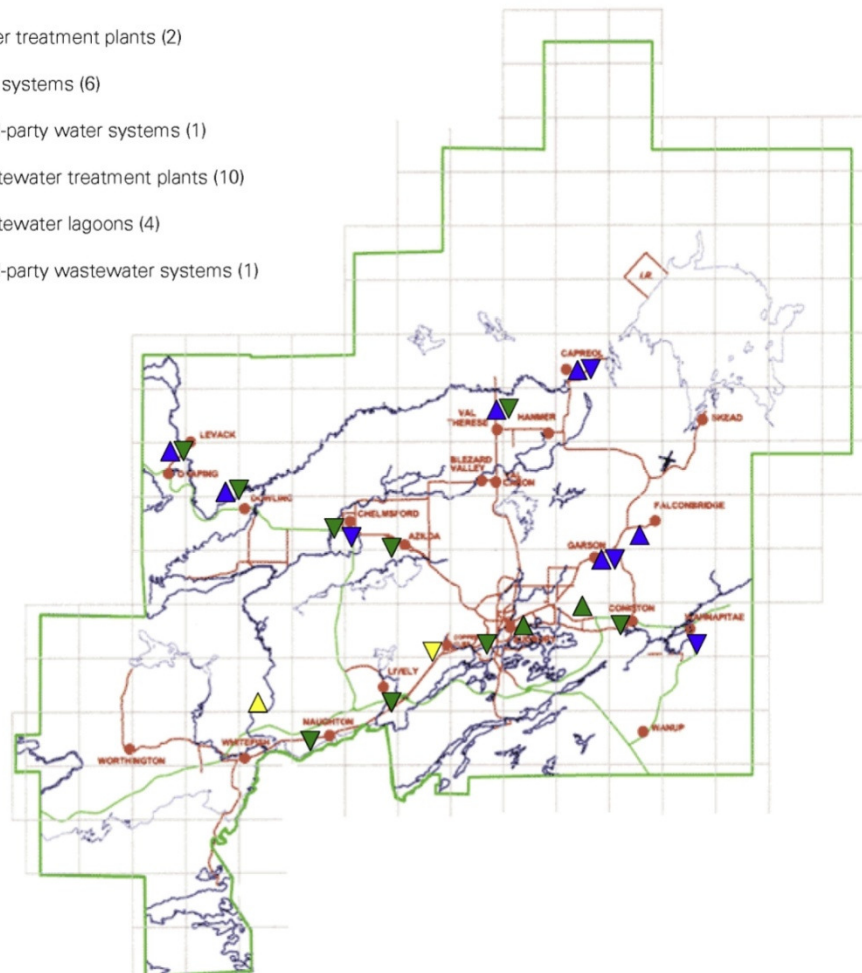
Operating Segment – Nick Benkovich

Rates Segment – Lorella Hayes



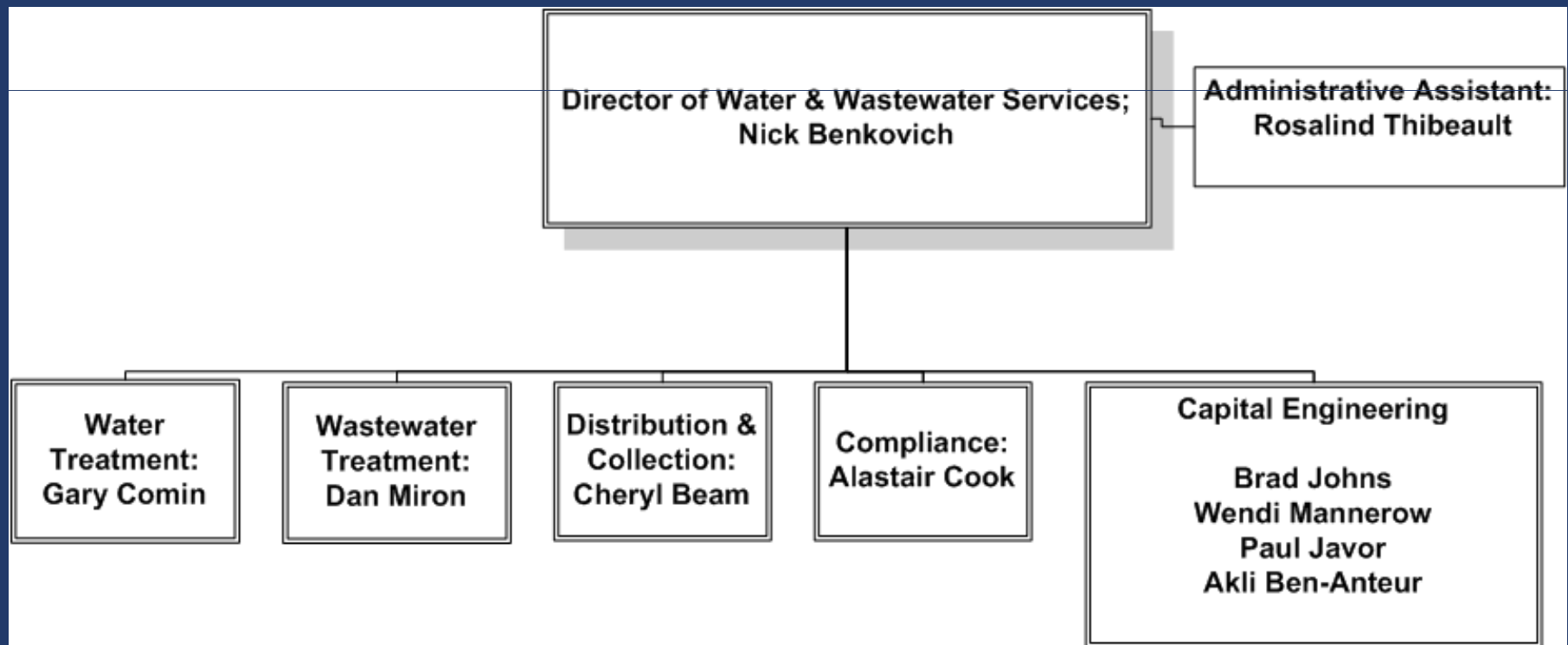
# Water & Wastewater Services: Infrastructure Map

- ▲ Water treatment plants (2)
- ▲ Well systems (6)
- ▲ Third-party water systems (1)
- ▼ Wastewater treatment plants (10)
- ▼ Wastewater lagoons (4)
- ▼ Third-party wastewater systems (1)





# ISD – Water & Wastewater Services





## Water/Wastewater – Capital Budget



### Water :

Funded - \$16.0 Million

Unfunded - \$61.6 Million

### Wastewater:

Funded - \$19.1 Million

Unfunded - \$73.5 Million



## Water/Wastewater – 2011 Accomplishments



- Financial Plan in place to promote long term sustainability;
- New technologies introduced:
  - Hydrant grooving machine,
  - Watermain lining






# Water/Wastewater – 2011 Accomplishments



Regent Street, from Bouchard Street to Caswell Drive  
Greater Sudbury Contract ENG 10-16

## Notice of Sanitary Sewer Work



**Why am I receiving this notice?**  
In accordance with the City of Greater Sudbury's commitment to providing safe and reliable water and wastewater services, the City of Greater Sudbury is undertaking a project to upgrade the sanitary sewer system on Regent Street from Bouchard Street to Caswell Drive.

**The sanitary sewer improvement will include installing "Trenchless" technology to install a new sewer line.**  
The sanitary sewer improvement will include installing "Trenchless" technology to install a new sewer line. This technology involves the use of a small access point to install a new sewer line. This technology involves the use of a small access point to install a new sewer line.

**Work will be scheduled during the evening hours to ensure the minimum disruption to residents.**  
The following schedule of work is being provided to residents to ensure the minimum disruption to residents. The schedule of work is being provided to residents to ensure the minimum disruption to residents.

**How will this affect my property?**  
The following schedule of work is being provided to residents to ensure the minimum disruption to residents. The schedule of work is being provided to residents to ensure the minimum disruption to residents.

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**Who can I call for information or assistance?**  
Please contact Inland at 800-761-5177 or 800-468-1377 or the City of Greater Sudbury Construction Services at 578-4855, ext. 2347 or 2351.

**311 Service**

**Greater Sudbury**  
www.greatersudbury.ca

- Bancroft Watermain
- Levesque Sewer
- Sellwood Water & Sewer
- Ramsey Watermain Looping





## Water/Wastewater- Challenges



- Updating project business cycles
- Aging Systems
- Sustainability – Infrastructure Gap
- Capital Renewal Programs





## **Capital Upgrade & Renewal: Strategic Project Highlights**



- **Development Support: Industrial Land Strategy**
  - Elizabetha – Lapointe
  - Fielding Road EA
- **Sherwood, Levesque Lift Station improvements**
- **Business Improvement Projects**
  - Performance Measurement
  - System Production Optimization
- **Master Plan**



# Capital Upgrade & Renewal: Facilities Project Highlights



- **Headhouse & Odour Control Upgrades – Sudbury WWT**
- **Upgrades & Standby Power - Lift stations**
- **Wanapitei WTP Upgrades**
- **New Valley Wells**



# **Capital Upgrade & Renewal: Water Distribution System Project Highlights**



- **Watermain replacement:**
  - Southview, Latimer, Robinson, Loach's, Sudbury
  - Third Ave Lively
  - Main St., Chelmsford
- **Improved security of supply:**
  - Valley Water System Looping & Storage Tank
  - Wanapitei Secondary Trunk
  - Lancaster / Boland Booster



# **Capital Upgrade & Renewal: Wastewater Collection System Project Highlights**



- **Sanitary sewers / I/I Reduction:**
  - Third Ave, Lively
  - Latimer, Loach's Sudbury
- **Sewer sustainability:**
  - Gatchell Outfall Sewer Replacement
  - St. Charles Lift Station Replacement
  - Lively – Walden System Improvements



## **Capital Upgrade & Renewal: Rehabilitation Program Project Highlights**



- **Water & Sewer Main Lining**
- **Sewer Condition Assessment /  
Cleaning**
- **Maintenance Hole (MH)  
rehabilitation**
- **Leak Detection & I/I Studies**
- **Well Rehabilitations**



# Water & Wastewater Services:



## Capital Questions?



## **Water/Wastewater: 2011 Operating Budget Highlights**



- **Sample System Maintenance Activities Completed in 2011:**
  - Watermain Swabbing –130 kilometres
  - Watermain Valve Operating – 2500 valves
  - Hydrants Pressure tested – 5500-hydrants
  - Sewer Main Cleaning – 170 kilometres





## 2010 OMBI Results - Water

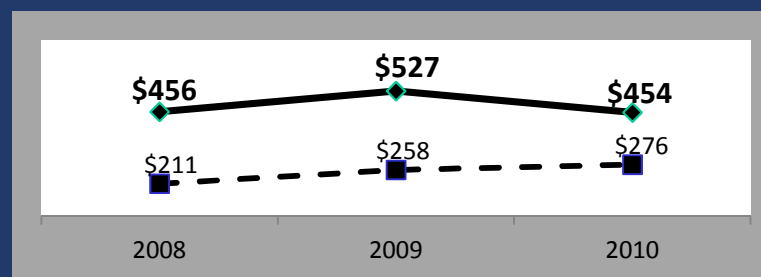


**WATR 310 – Operating Costs for the Treatment of Drinking Water per ML treated**

**WATR 315 – Operating Costs for the Distribution of Drinking Water per Kilometer of Pipe**

CGS – Solid line

OMBI Median – Dashed



	Age of Pipe	Population Density
<b>CGS</b>	<b>45</b>	<b>213</b>
Median	37.2	663



# 2010 OMBI Results - Wastewater

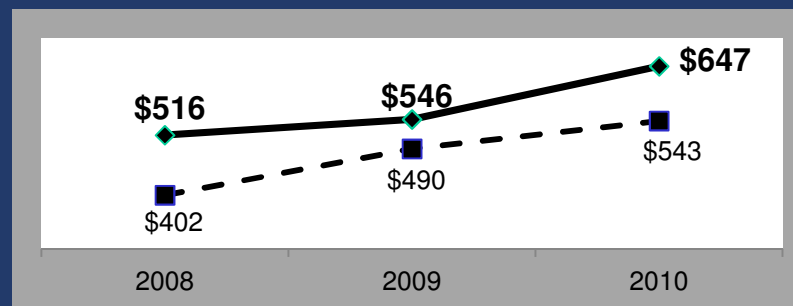
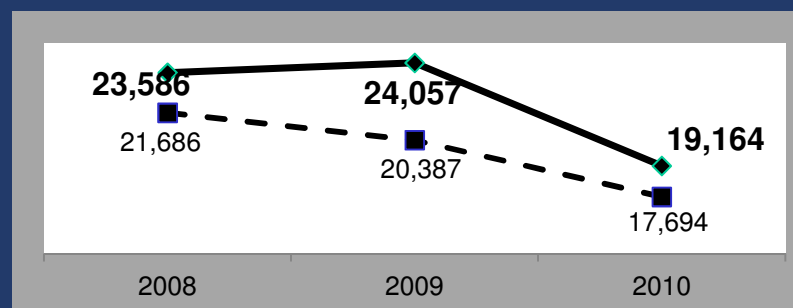


**WWTR 210 – ML of Wastewater Treated per 100,000 population**

**WWTR 315 – Operating Cost of Wastewater Collection / Conveyance & Treatment / Disposal per ML treated**

CGS – Solid line

OMBI Median – Dashed



	Age of Pipe	Population Density
<b>CGS</b>	<b>42</b>	<b>266</b>
Median	41	488



# **Water & Wastewater Services 2012 Budget**



- **Funded solely by user fees**
- **Not funded through municipal taxes**
- **Only users of W/WW services contribute funding**



## Water & Wastewater Services 2012 Budget



- Consumption declining across Ontario
- Impacts available revenue
- Fixed Costs
- Revenues change more than costs
- Leads to budget challenges



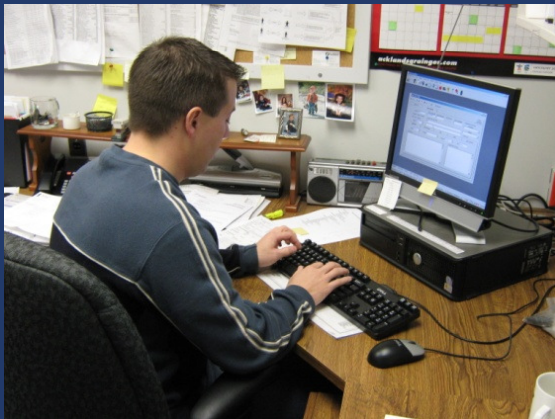
# Water & Wastewater Services 2012 Budget



- **1.5 % Base Budget increase; below inflation (3.2%)**
- **Focus of Fiscal Sustainability Programs:**
  1. **Cost Containment & Budget Reduction**
  2. **Revenue Enhancement & Protection**



# **Fiscal Sustainability Programs: Detailed Budget Review:**



- **Regular interaction with Finance staff;**
- **Line by line review by each W/Ww Section;**
- **Ongoing realignment & refinement of allocations;**



# Fiscal Sustainability Programs: Business Improvement Study



- Founded on 51 staff interviews;
- Identified 64 Projects in 13 initiative areas
- All projects address requirements identified in staff interviews
- Project Implementation
  - Implementation on Priority Basis
  - Schedule extends to at least 2015







## Fiscal Sustainability Programs: Operational Optimization



- Reallocation of 1 existing FTE within W/Ww to reduce costs related to externally contracted diesel maintenance;
- Ongoing review of possible synergies with Roads operations;
- Service Level Agreements developed;
- Plant process optimization – energy & chemicals



# Fiscal Sustainability Programs: Source Control



- 2011 Statistics:

- 295 Site Inspections
- 99 Non-compliance instances
- 34% non-compliance rate

- Fees:

- Application & Volumetric (over strength) Fees





# Fiscal Sustainability Programs: Inflow & Infiltration Reduction



- **Capital Inflow / Infiltration Identification & Reduction Programs:**
  - Lively / Walden, Lo-Ellen Park Areas
  - 2012 Remediation Projects

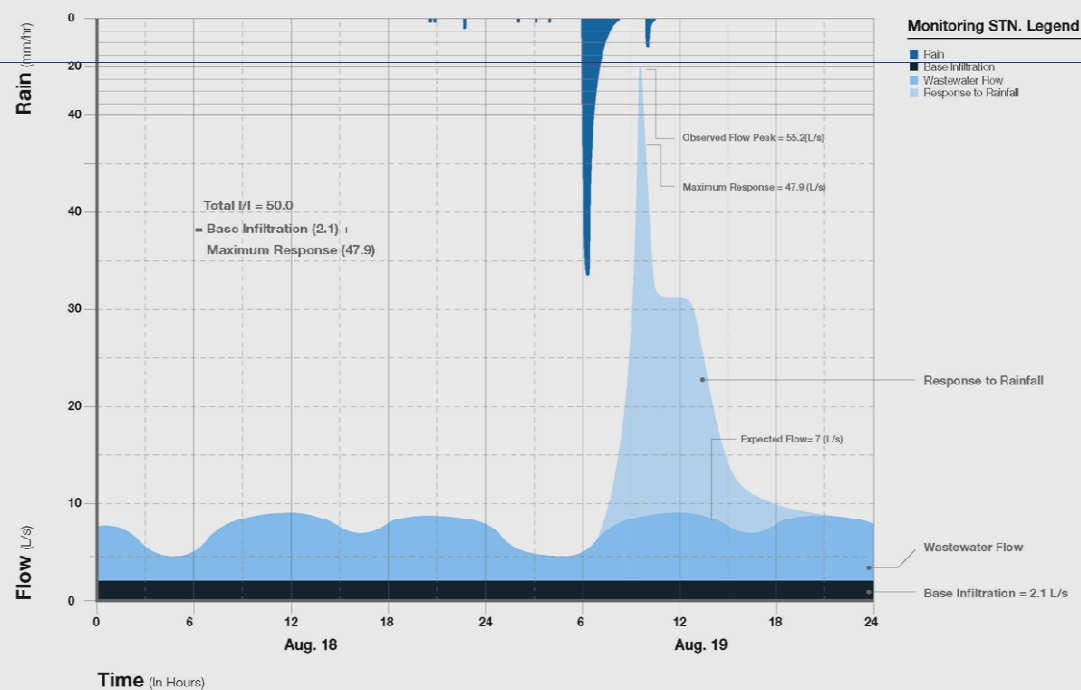




# Cost Implications of Inflow & Infiltration

## Lively/Walden Flow Monitoring Eastern Avenue - August 19, 2010

Flow Rates for 30.8mm Event of Thursday, August 19, 2010





# Fiscal Sustainability Programs: Non- Revenue Water Reduction



- 2011 Leak Detection Project



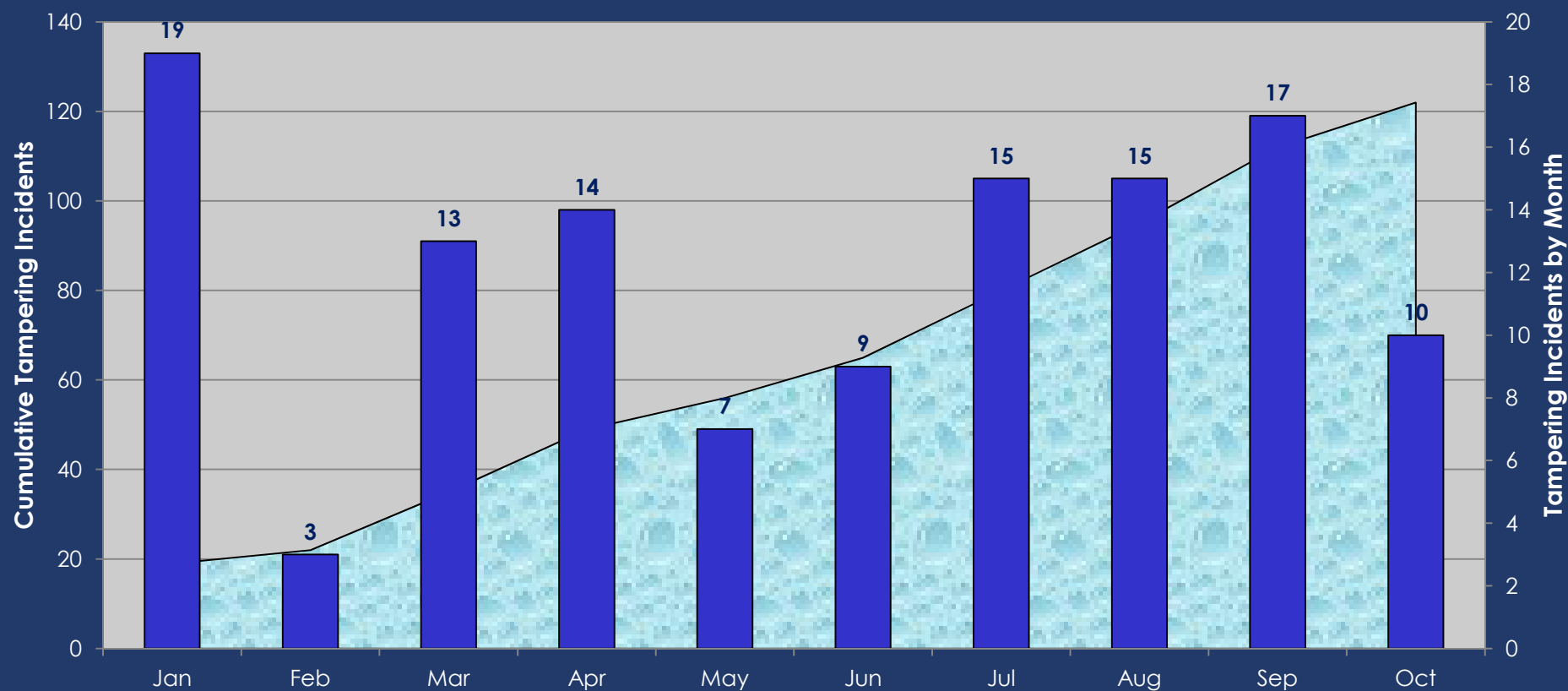
- Meter Tampering Task Force





# Water/Wastewater Services: Costs of Meter Tampering

Tampering Incidents by Month





## Fiscal Sustainability Programs: Bulk Water Dispensing Sites

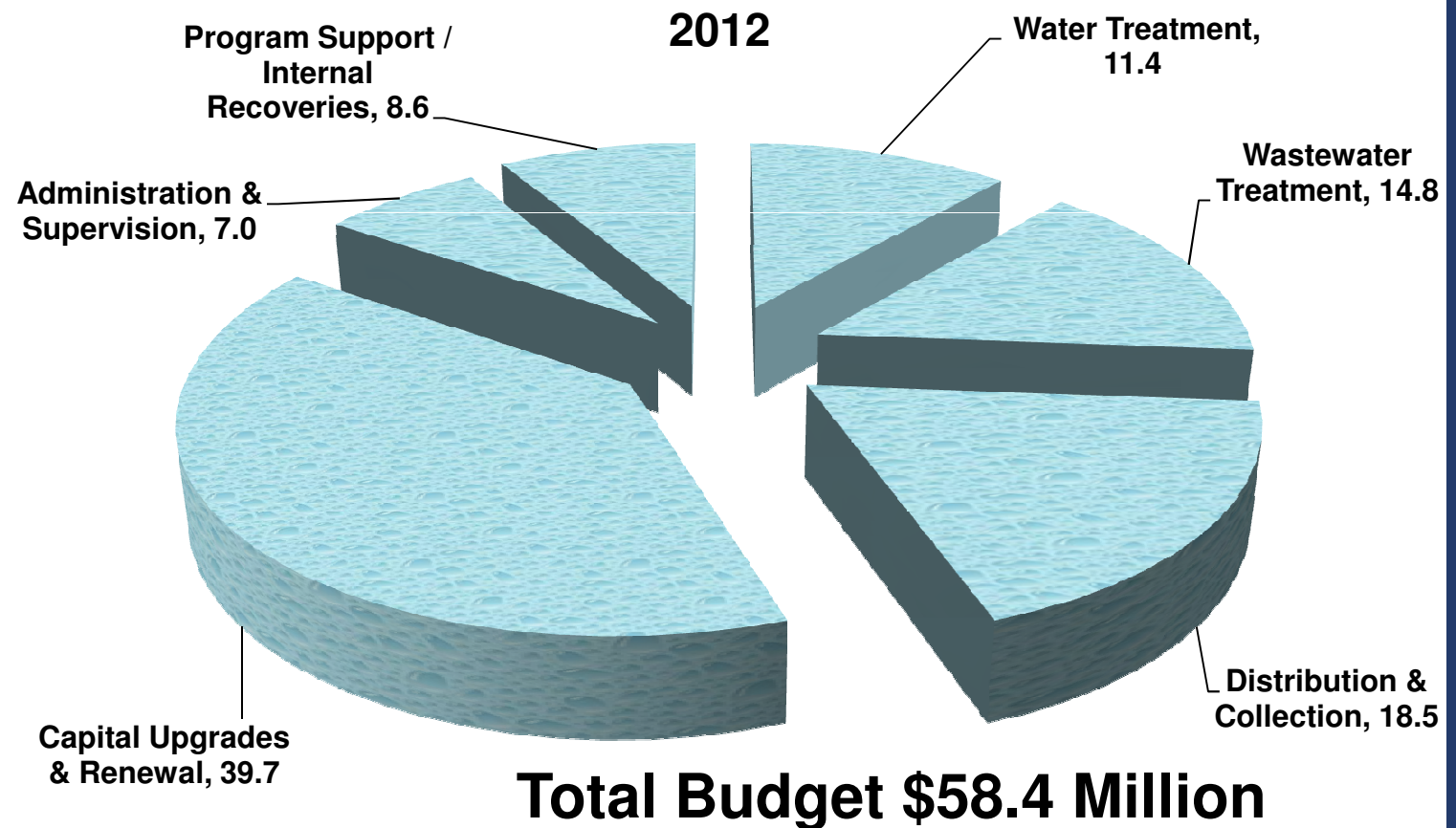


- Improved control & security
- Increased source of revenue





## Proposed 2012 Operating Budget Allocations (percent)

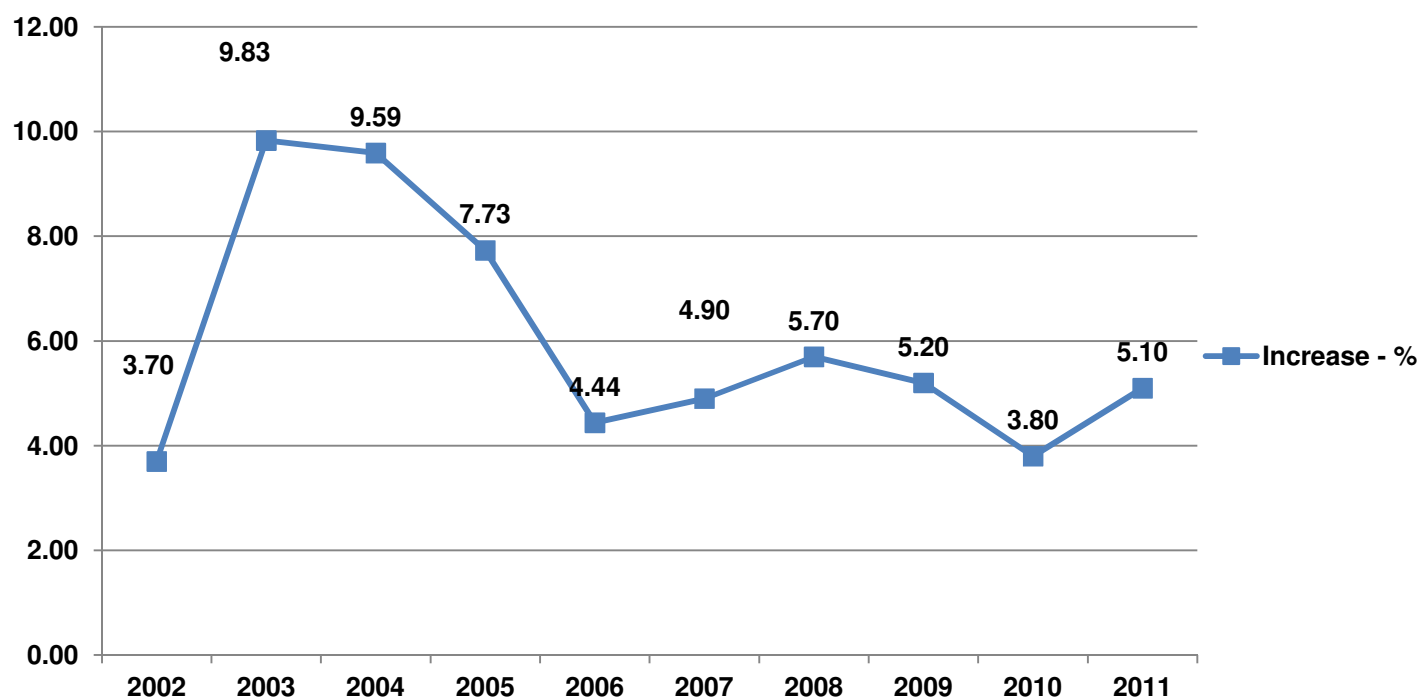




# Water & Wastewater Services:



## W/WW Rate History





# Proposed Enhancement Options



Category	Option	Revenues	Expenses	WWW Rate Impact	Subtotal
Fiscal Sustainability	User fees for site inspections, subdivisions, and site plans.	-20,000		-0.05%	
Council/Committee Resolution	Pavement Degradation Fee		30,000	0.05%	
Council/Committee Resolution	\$75 Elderly Water Wastewater Rebate for elderly homeowners receiving GIS		71,250	0.15%	
Fiscal Sustainability	User fees for services such as: emergency locates, private sewer lateral corrective call outs and increase existing fees related to tampering and water shut offs.	-130,000		-0.25%	
Council/Committee Resolution	Hire 2 additional FTE's to meet the increased capital demands as recommended in the W/Ww financial plan:		236,572	0.40%	0.30%



## Water & Wastewater Services: Questions ?



### CGS W/WW Services Mission Statement:

*“The City of Greater Sudbury’s Water and Wastewater Services Division is committed to providing its customers with safe, reliable, and environmentally responsible municipal water and wastewater services with a sustainable, cost effective approach”.*

