

2023
City of Timmins
Water & Wastewater Budget



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Water & Wastewater Budgets Introduction



The City of Timmins provides water treatment and supply, along with wastewater collection and treatment, as well as storm water management across the City. The Water and Wastewater budgets support these initiatives.

The Timmins Water Filtration plan provides clean drinking water for approximately 14,000 properties. In 2021, 8,565 mega litres of raw water was taken in with 7,172 megalitres of treated water flow was distributed through approximately 230km of distribution mains. This is managed by the Water Plant Chief operator and a team of operators and maintenance personnel. This group is also responsible for the reservoirs and booster stations throughout the network, as well as water metering.

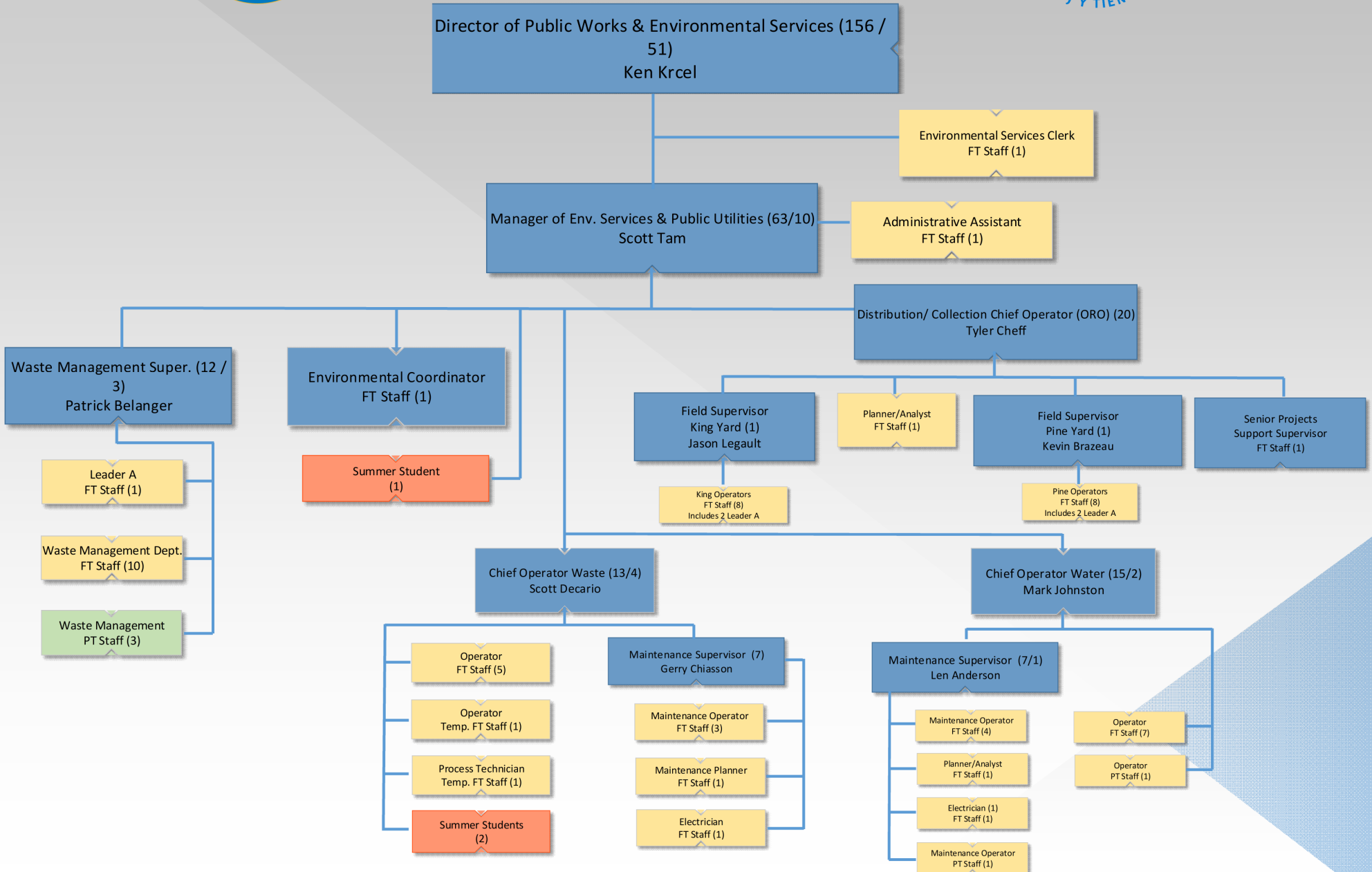
Similarly, nearly 13,600 properties are connected to the wastewater system. 279 km of wastewater pipe collected 8,630 mega litres in 2021, which are treated at the Mattagami Water Pollution Control Plant and Whitney Water Pollution Control Plant. This is managed by the Wastewater Plant Chief Operator and a team of operators and maintenance personnel. They are also responsible for the operation and maintenance of the City's various lift stations.

The linear infrastructure network of mains, valves, services, manholes, storm catch basins etc. is maintained by the Chief Operator of Distribution and Collection. Preventative maintenance and emergency repair work is conducted by this team. Costs are allocated based on time spent, and are charged to the appropriate funds (water, wastewater, and general taxation for storm sewer work).

The 2023 water and wastewater budgets are built with adherence to the Safe Drinking Water Act, Municipal Drinking-Water License and our Water Financial plan in mind. The budget was built on a full cost recovery basis.

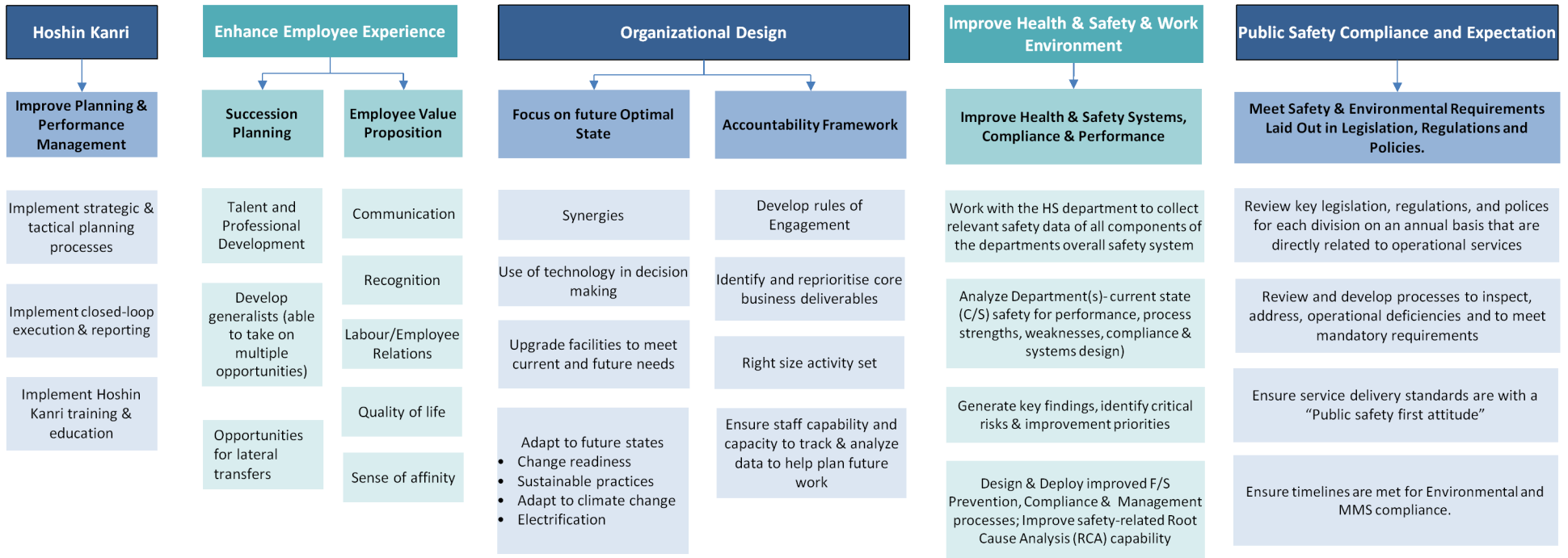


The Corporation of the City of Timmins Public Works & Environmental Services



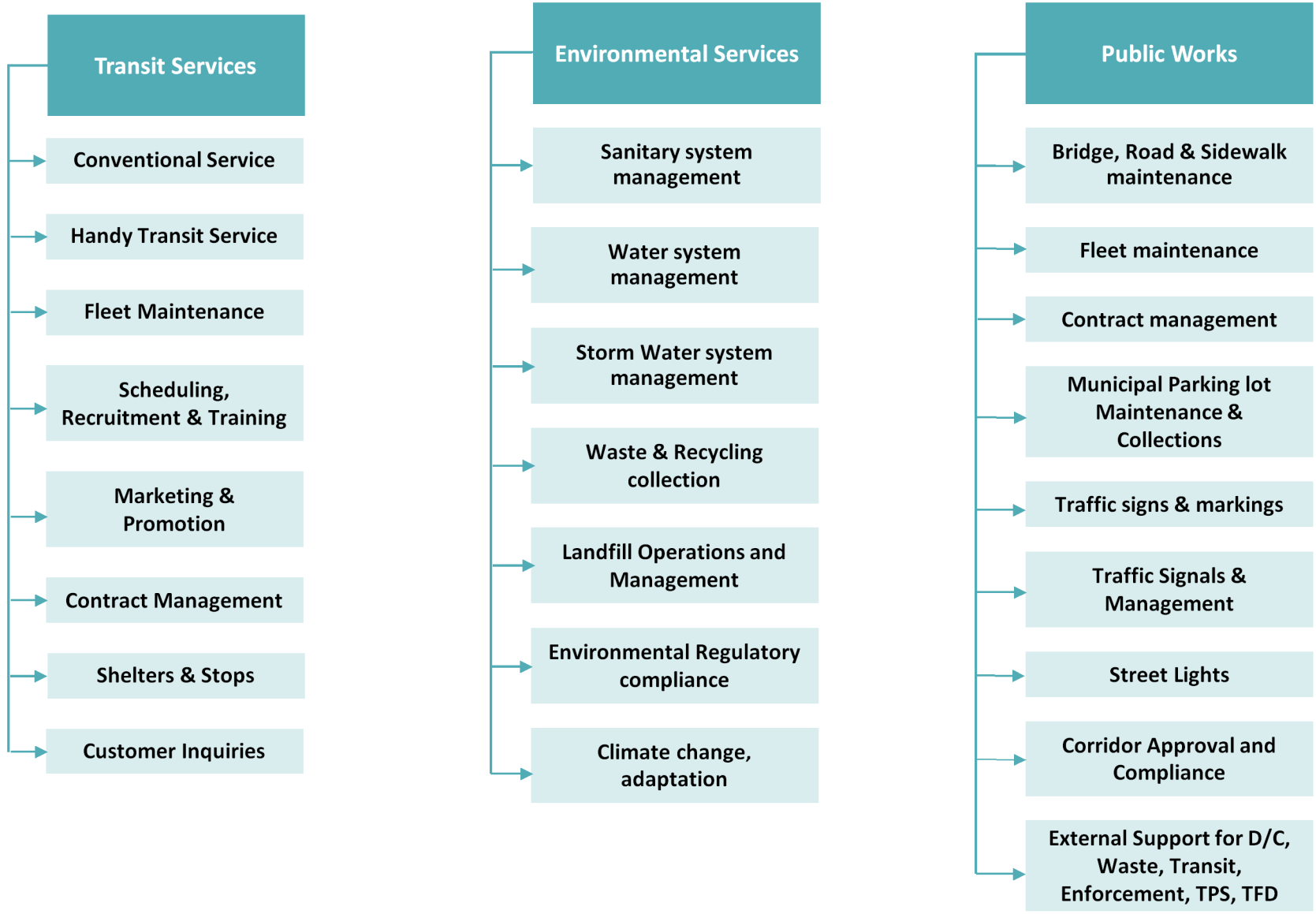
Public Works, Environmental Services & Transit Vision

“Providing critical municipal services and responding to change through innovation and a employee centric approach, by communicating and providing opportunity for growth”



Annual Hansei events for each departmental improvement theme

Public Works, Environmental Services, Transit





Water



2023 Water Budget Highlights



TO: Council

FROM: Scott Tam

CC: Dave Landers, Ken, Krcel, Natalie Moore, Greg Paquette

DATE: November 30, 2022

RE: Budget highlights for 2023

Department Mission, Vision Statement:

Providing critical municipal services and responding to change through innovation and a employee centric approach, by communicating and providing opportunity for growth.

Achievements:

Organizational restructuring of the Water Treatment division and Distribution & Collection division is allowing for a more efficient flow of operations and future succession planning.

Through Capital works managed by the Engineering department we have addressed various issues through valve replacements, water main relining and reconstruction work. This is helping address aging infrastructure and leaks, which results in reducing the amount of water that needs to be produced minimizes system water loss.

A number of projects were completed to improve the delivery of safe drinking water throughout the distribution system, such as increased metering/monitoring on SCADA, and changes to operational programming, and watermain relining.

Current Plans for the Department:

1. Conduct water needs assessments to help prioritize and plan out future capital works to the water system.
2. Identify and review areas of opportunity to modernize/automate treatment operations.
3. Identify critical needs to properly plan/manage service/infrastructure needs and assets.

Future Plans/Trends for the Department:

Future Plans

1. Conduct water needs assessments to help prioritize and plan out future capital works to the water system.
2. Water operator recruitment and retention.
3. Departmental succession planning.

Trends

1. Aging Infrastructure: Water assets are aging and a systematic approach to repair/replacement is required.
2. Climate Change: Significant weather/storm events are affecting performance of current infrastructure. Flood events change the water composition of the Mattagami River which effect water treatment. Flooding can also compromise the plant.

Budget Issues and Challenges:

Cost Drivers:

1. Aging infrastructure: Water infrastructure/assets are near end of life. This is becoming a challenge for the department to maintain and systematically address.
2. Economic Factors: The municipality has seen an increase in cost for materials and supplies (i.e. cost of asphalt and concrete, etc.). This has driven cost of repairs.
3. Contractor Support: Due to aging infrastructure and complex repairs the need to increase the reliance on contractor support has occurred. Workforce shortages of skilled labour has also affected the number of contractors available to provided support.
4. Climate Change: Due to changing weather patterns storm water exposes infrastructure to increased impacts from an operational, financial, health and safety factors.
5. Health and Safety: Health and Safety requirements/legislation are requiring more resources (i.e. traffic control, confined space, etc.) to ensure worker safety and to ensure MOL requirements/records are met.

Challenges:

Limited resources: The Environmental Services Department, Distribution/Collection group are responsible to manage the water distribution system in addition to the Waste Water collection system and storm system.

Qualified Personnel: Workforce shortages has impacted operations. The ability to hire qualified persons has become more of a challenge. Those who are hired require training and time to become qualified in the field.

Aging maintenance equipment and infrastructure: Equipment/part replacement has been a longer process than typically experienced. Long lead and delivery times has affected the maintenance/replacement schedules.

Legislative Requirements:

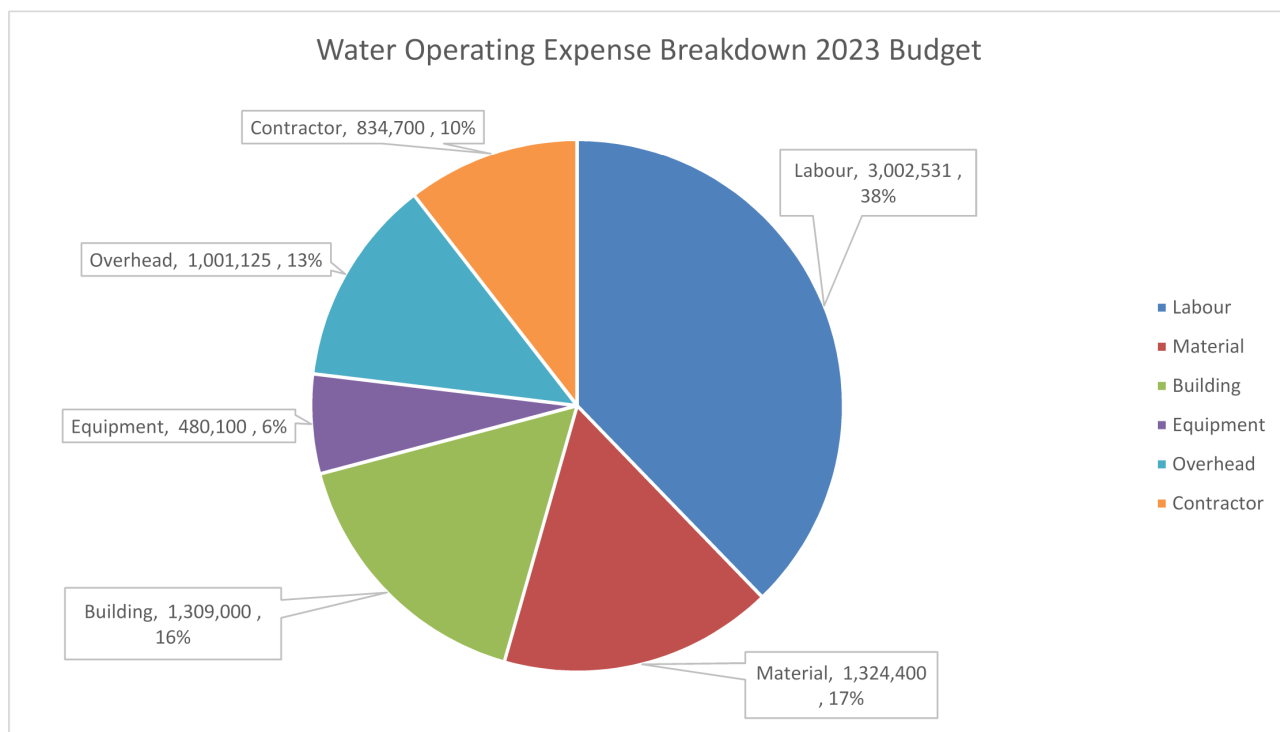
The management of Trihalomethanes and Haloacetic Acid in the distribution systems is becoming more stringent and alternatives will need to be reviewed to manage these potential cancer-causing agents.

Request for New Staff:

Not Applicable

SUMMARY OF WATER BUDGET

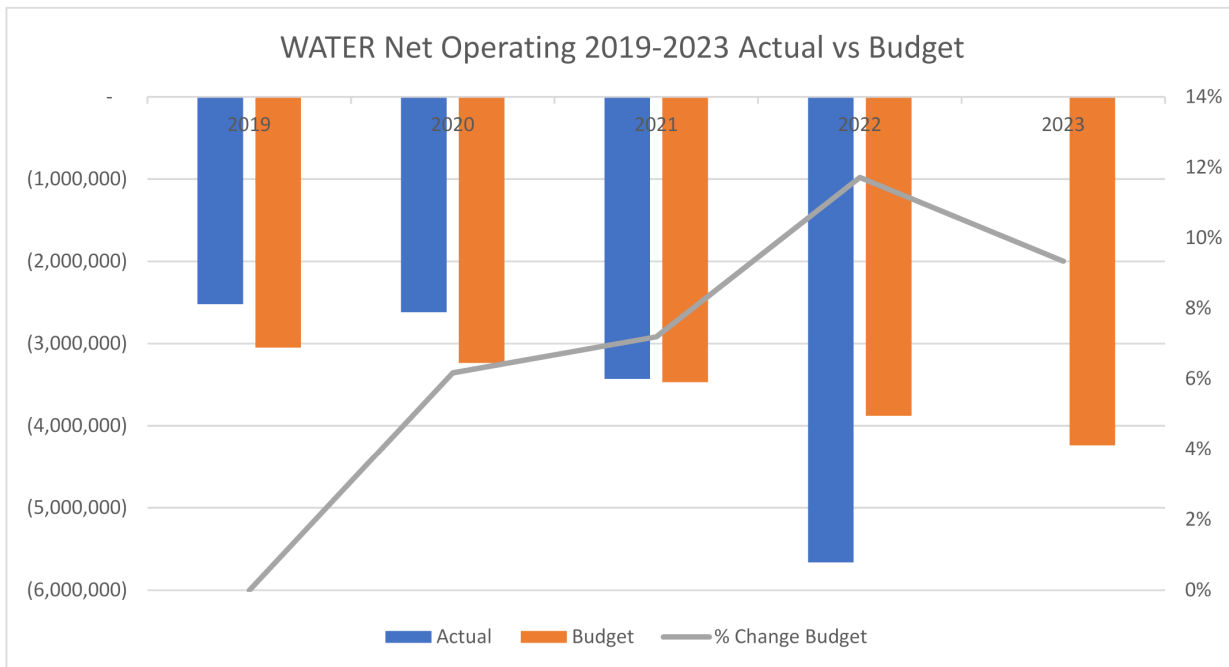
SUBDIVISION	ACTUALS AVERAGE (2019-2021)	2022 BUDGET VALUES	2023 PROVISIONAL BUDGET	% Change 2022 Budget to 2023 Budget
OPERATIONS				
TOTAL OPERATING REVENUE	(10,620,009)	(11,505,500)	(12,190,500)	● -5.95%
PLANT OPERATING EXPENSES	4,461,175	4,415,597	4,621,450	● 4.66%
DISTRIBUTION OPERATING EXPENSES	2,923,442	2,711,526	2,656,281	● -2.04%
ADMIN EXPENSES	550,513	680,063	674,125	● -0.87%
SUBTOTAL OPERATING EXPENSES	7,935,130	7,807,186	7,951,856	● 1.85%
CAPITAL				
WATER CAPITAL REVENUE	(1,589,069)	(1,638,300)	(3,044,310)	● -85.82%
CAPITAL EXPENSES - PLANT	403,036	814,802	1,067,955	● 31.07%
CAPITAL EXPENSES - DISTRIBUTION	3,148,243	4,700,000	6,215,000	● 32.23%
SUBTOTAL CAPITAL EXPENSES	3,551,279	5,514,802	7,282,955	● 32.06%
Net CAPITAL	1,962,210	3,876,502	4,238,645	● 9.34%
NET OVERALL - WATER	(722,669)	178,188	1	● -100.00%



WATER 2023 Proposed Budgets

DIVISION ▼

Segment	2023 PRO	2022 BUD	23-22 Var	23-22 Var %
<input type="radio"/> Tax Revenue	-	-	-	
<input type="radio"/> User Fee, Rent, Other	(12,190,500)	(11,505,500)	(685,000)	● -6%
<input type="radio"/> Grant	-	-	-	
<input type="radio"/> Labour	3,002,531	2,927,178	75,353	● 3%
<input type="radio"/> Material	1,324,400	1,286,400	38,000	● 3%
<input type="radio"/> Building	1,309,000	1,426,000	(117,000)	● -8%
<input type="radio"/> Equipment	480,100	372,900	107,200	● 29%
<input type="radio"/> Overhead	1,001,125	932,820	68,305	● 7%
<input type="radio"/> Contractor	834,700	683,700	151,000	● 22%
<input checked="" type="radio"/> Net Operating	(4,238,644)	(3,876,502)	(362,142)	● -9%
<input type="radio"/> Capital Grant	(3,044,310)	(1,638,300)	(1,406,010)	● -86%
<input type="radio"/> Capital Expenditures	7,282,955	5,514,802	1,768,153	● 32%
<input type="radio"/> Net Capital	4,238,645	3,876,502	362,143	● 9%
Net Result	1	-	1	





Wastewater



2023 Sewer Budget Highlights



TO: Council

FROM: Scott Tam

CC: Dave Landers, Ken Krcel, Natalie Moore, Greg Paquette

DATE: November 30, 2022

RE: Budget highlights for 2023

Department Mission, Vision Statement:

Providing critical municipal services and responding to change through innovation and an employee centric approach, by communicating and providing opportunity for growth

Achievements:

Organizational restructuring of the Waste Water Treatment division and Distribution & Collection division is allowing for a more efficient flow of operations and future succession planning.

Through capital works managed by the Engineering department we have addressed various issues through sanitary main relining and reconstruction work. This is helping to address aging infrastructure and leaks, which results in reduced inflow and infiltration.

The City of Timmins has successfully completed the Ministry of Environment, Conservation and Parks' Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) for waste water collection system. We anticipate receiving the final CLI-ECA shortly.

Current Plans for the Department:

1. Conduct sanitary needs assessments to help prioritize and plan out future capital works to the waste water system.
2. Identify and review areas of opportunity to modernize/automate waste water treatment operations.
3. Identify critical needs to properly plan/manage service/infrastructure needs and assets.
4. Co-Digestion Project: continue to look for funding to proceed with a design.

Future Plans/Trends for the Department:

Future Plans

1. Conduct waste water needs assessments to help prioritize and plan out future capital works to the water system.
2. Waste Water operator recruitment and retention.
3. Departmental succession planning.

Trends

1. Aging Infrastructure: Waste Water assets are aging and a systematic approach to repair/replacement is required.
2. Climate Change: Significant weather/storm events are affecting performance of current infrastructure. I.E. system surcharges resulting in flooding events and bypass events.

Budget Issues and Challenges:

Cost Drivers:

1. Aging infrastructure: Waste water infrastructure/assets are near end of life. This is becoming a challenge for the department to maintain and systematically address.
2. Economic Factors: The municipality has seen an increase in cost for materials and supplies (i.e. cost of asphalt and concrete, etc.). This has driven cost of repairs.
3. Contractor Support: Due to aging infrastructure and complex repairs the need to increase the reliance on contractor support has occurred. Workforce shortages of skilled labour has also affected the number of contractors available to provided support.
4. Climate Change: Due to changing weather patterns, it is exposing sanitary infrastructure to increased storm water, which impacts operations, financial, health and safety factors.
5. Health and Safety: Health and Safety requirements/legislation are requiring more resources (i.e. traffic control, confined space, etc.) to ensure worker safety and to ensure MOL requirements/records are met.

Challenges:

Limited resources: The Environmental Services Department, Distribution/Collection group are responsible to manage the water distribution system in addition to the Waste Water collection system and storm system.

Qualified Personnel: Workforce shortages has impacted operations. The ability to hire qualified persons has become more of a challenge. Those who are hired require training and time to become qualified in the field.

Aging maintenance equipment and infrastructure: Equipment/part replacement has been a longer process than typically experienced. Long lead and delivery times has affected the maintenance/replacement schedules.

Legislative Requirements:

Federal and Provincial Wastewater Effluent Quality: The Whitney-Tisdale Wastewater Treatment Plant and Bob's Lake Lagoon will be required to upgrade their effluent treatment to achieve new legislative requirements.

Request for New Staff:

Not Applicable



2023 Storm Budget Highlights



TO: Council

FROM: Scott Tam

CC: Dave Landers, Ken Krcel, Natalie Moore, Greg Paquette

DATE: November 30, 2022

RE: Budget highlights for 2023

Department Mission, Vision Statement:

Providing critical municipal services and responding to change through innovation and an employee centric approach, by communicating and providing opportunity for growth.

Achievements:

Organizational restructuring of the Distribution & Collection division is allowing for a more efficient flow of operations and future succession planning.

Completed various storm system outlet repairs. Poor installations/aging infrastructure has resulted in major collapses/failures that has affected private properties.

The City of Timmins has successfully completed the Ministry of Environment, Conservation and Parks' Consolidate Linear Infrastructure Environmental Compliance Approval (CLI-ECA) for the storm water system. The final CLI-ECA was received on October 27, 2022.

Current Plans for the Department:

1. Conduct storm water needs assessments to help prioritize and plan out future capital works to the storm water system.
2. Increased maintenance and inspection program.
3. Identify critical needs to properly plan/manage service/infrastructure needs and assets.

Future Plans/Trends for the Department:

Future Plans

1. Develop and improve a maintenance and inspection program for the storm system network. Continue to build on condition assessments on infrastructure to help improve on capital replacement works.
2. As per the conditions in the CLI-ECA, we must prepare and implement an operations and maintenance manual for Sewage Works within the Authorized System on or before September 06, 2023.

Trends

1. Aging Infrastructure: Storm water assets are aging and a systematic approach to repair/replacement is required.
2. Climate Change: Significant weather/storm events are affecting performance of current infrastructure. I.E. system surcharges resulting in flooding events.

Budget Issues and Challenges:

Cost Drivers:

1. Aging infrastructure: Storm water infrastructure/assets are near end of life. This is becoming a challenge for the department to maintain and systematically address.
2. Economic Factors: The municipality has seen an increase in cost for materials and supplies (i.e. cost of asphalt and concrete, etc.). This has driven cost of repairs.
3. Contractor Support: Due to aging infrastructure and complex repairs the need to increase the reliance on contractor support has occurred. Workforce shortages of skilled labour has also affected the number of contractors available to provided support.
4. Climate Change: Due to changing weather patterns storm infrastructure is exposed to increased water from storm events, this impacts the department operationally, financially, and from a health and safety perspective.
5. Health and Safety: Health and Safety requirements/legislation are requiring more resources (i.e. traffic control, confined space, etc.) to ensure worker safety and to ensure MOL requirements/records are met.

Challenges:

Limited resources: The Environmental Services Department, Distribution/Collection group are responsible to manage the water distribution system in addition to the Waste Water collection system and storm system.

Qualified Personnel: Workforce shortages has impacted operations. The ability to hire qualified persons has become more of a challenge.

Aging maintenance equipment and infrastructure: Equipment/part replacement has been a longer process than typically experienced. Long lead and delivery times has affected the maintenance/replacement schedules.

Legislative Requirements:

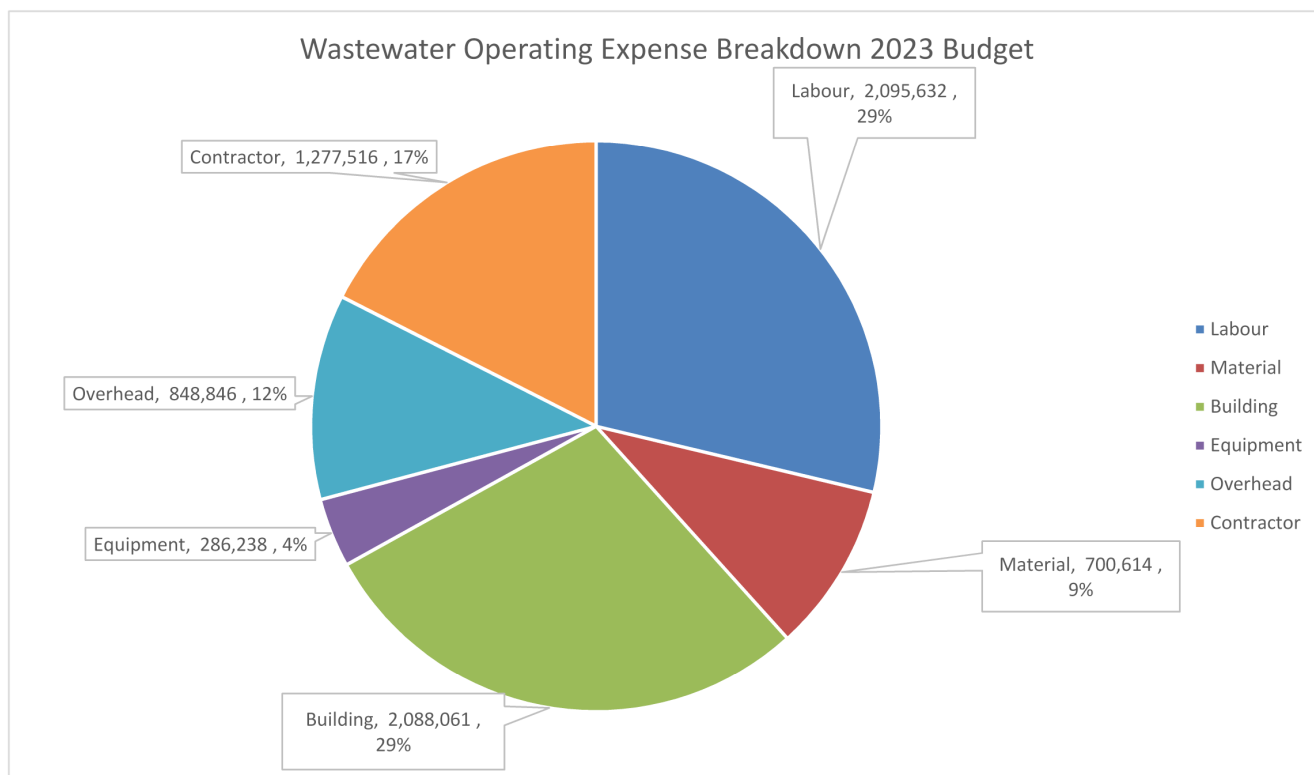
There are no new legislative requirements identified in 2023.

Request for New Staff:

No new staff requested for 2023.

SUMMARY OF WASTEWATER BUDGET

SUBDIVISION	ACTUALS AVERAGE (2019-2021)	2022 BUDGET VALUES	2023 PROVISIONAL BUDGET	% Change 2022 Budget to 2023 Budget
OPERATIONS				
TOTAL OPERATING REVENUE	(11,126,981)	(12,519,000)	(13,090,000)	4.56%
PLANT OPERATING EXPENSES	4,598,448	4,915,200	5,134,373	4.46%
COLLECTION OPERATING EXPENSES	1,421,891	1,259,624	1,446,900	14.87%
ADMIN EXPENSES	645,697	713,034	715,634	0.36%
SUBTOTAL OPERATING EXPENSES	6,666,036	6,887,858	7,296,907	5.94%
CAPITAL				
WASTEWATER CAPITAL REVENUE	(1,665,690)	(3,080,000)	(2,650,557)	-13.94%
CAPITAL EXPENSES - PLANT	1,630,480	4,698,690	3,157,900	-32.79%
CAPITAL EXPENSES - DISTRIBUTION	1,292,055	2,465,000	2,666,450	8.17%
DEBT REPAYMENTS	2,890,257	3,519,300	2,619,300	-25.57%
SUBTOTAL CAPITAL EXPENSES	5,812,792	10,682,990	8,443,650	-20.96%
Net CAPITAL	4,147,102	7,602,990	5,793,093	-23.81%
NET OVERALL - WATER	(313,843)	1,971,848	(0)	-100.00%



SANITARY SEWER 2023 Proposed Budgets

DIVISION

Segment	2023 PRO	2022 BUD	23-22 Var	23-22 Var %
<input type="radio"/> Tax Revenue	-	-	-	
<input type="radio"/> User Fee, Rent, Other	(13,090,000)	(12,519,000)	(571,000)	● -5%
<input type="radio"/> Grant	-	-	-	
<input type="radio"/> Labour	2,095,632	2,009,500	86,132	● 4%
<input type="radio"/> Material	700,614	667,000	33,614	● 5%
<input type="radio"/> Building	2,088,061	2,008,700	79,361	● 4%
<input type="radio"/> Equipment	286,238	276,800	9,438	● 3%
<input type="radio"/> Overhead	848,846	846,858	1,988	● 0%
<input type="radio"/> Contractor	1,277,516	1,079,000	198,516	● 18%
<input checked="" type="radio"/> Net Operating	(5,793,093)	(5,631,142)	(161,951)	● -3%
<input type="radio"/> Capital Grant	(2,650,557)	(3,080,000)	429,443	● 14%
<input type="radio"/> Capital Expenditures	8,443,650	10,682,990	(2,239,340)	● -21%
<input type="radio"/> Net Capital	5,793,093	7,602,990	(1,809,897)	● -24%
<input type="radio"/> Net Result	(0)	1,971,848	(1,971,848)	● -100%

