Asset Management

Tool, Tips and Resources







Municipal Asset Management Program





This initiative is delivered through the Municipal Asset Management Program, which is delivered by the Federation of Canadian Municipalities and funded by the Government of Canada.

FCM Survey





https://www.surveymonkey.com/r/AIMNETABACT4

Partner Organization: AIM Network



Who We Are

- A not-for-profit Asset Management Community of Practice
- A network of individuals committed to asset management planning for long-term sustainability of services
- Our mandate: supporting municipal asset management in Atlantic Canada



Presenter

Matt Delorme, P.Eng.

AIM Network Executive Director



Asset Management: Top to Bottom

Introduction to AM Processes





Asset Management Process

- Policy
- Strategic Roadmap
- Inventory (mapping for linear assets)
- Inventory (fleet and facilities)
- Asset Valuation
- Risk Assessment (including climate vulnerability)
- Level of Service Assessment
- Financial Assessment (financial projections and budgeting)
- Capital Project Program

Capital Finance Plan

NLL Asset Management Toolkit





Asset Management Policy

SUSTAINABLE SERVICE DELIVERY

- Defines the scope, purpose, participants and guiding principles of an organization
- Level of Service Based
- Big Picture View
- Sustainable and Resilient
- Financially Sound
- Continuous Improvement
- How is it reported? By whom? To whom?





Comments

Asset Management Self Assessment Tool

Core Asset Data Potable Water Supply (PWS) and Distribution Network Eg. Water mains, hydrants, valves, connections, etc.

Governance I	nformation		AMP - ASSET	No Infrastructure Replacement Plan exists to show the theoretical timing for infrastructure replacement.	Parts of a Replacement Plan exist (e.g. for a duration of <20 years, etc.) but it is not consolidated into any organizational long term view.	A Replacement Plan has been developed, but it is either <20 years in scope or does not include all components.	A long term plan (75+yr) is in place that illustrates the timing of expenditure to replace all key components of the water distribution network, the current infrastructure	
	LEVEL 1	LEVEL 2	REPLACEMENT PLAN				deficit, and the average annual sustainable funding level.	
	Policies are not yet in place related to sustainable service delivery.	Some policies related to sustainable service delivery are in place, but there						
		are significant gaps or policies are not		С		D		
ASSET MANAGEMENT		actionable.	Comments					
POLICY				2022	2022-2023		-2024	
				Complete asset inventory	in GIS and NL reporting tool	Identify strategy to manage aging infrastructure with limited funding		
	С			Develop 5 year capital projection plan a	nd identify gaps based on risk assessmen	t Consider the impact of w	ater supply from Appleton	
Comments				Complete level of	service assessment			_
STRATEGY	A strategy has not yet been put in place for integrating asset management planning in our municipality and we do not have a roadmap to lead us.	organization-wide strategy. There are significant gaps in providing direction for sustainable service delivery and the linkage of plans and initiatives.	delivery goals, the approach to achieving them, and identifies organizational plans or initiat together to inform decision ma and achieving the goals. The st is not being widely implemente	service delivery goals, the approa how achieving them, and identifies ho vives fit organizational plans fit together to linform decision making and achieve trategy the goals. The strategy is being	ach to w to			
	С	D						
Comments								
DECISION MAKING	Decisions are based on a short term frame or reactive in nature and often in isolation of appropriate information.		Decision making is based on the term and incorporates appropriate information.	_	on, is			
	С		D				9	



Asset Management Roadmap

- Where are we in our asset management capacity now?
- People, Governance, Finance and Asset Data and Information
- Where do we want to get to with our asset management capacity?
- Identify gaps
- Identify activities to fill those gaps
- Create a two-year roadmap to continuously improve AM planning

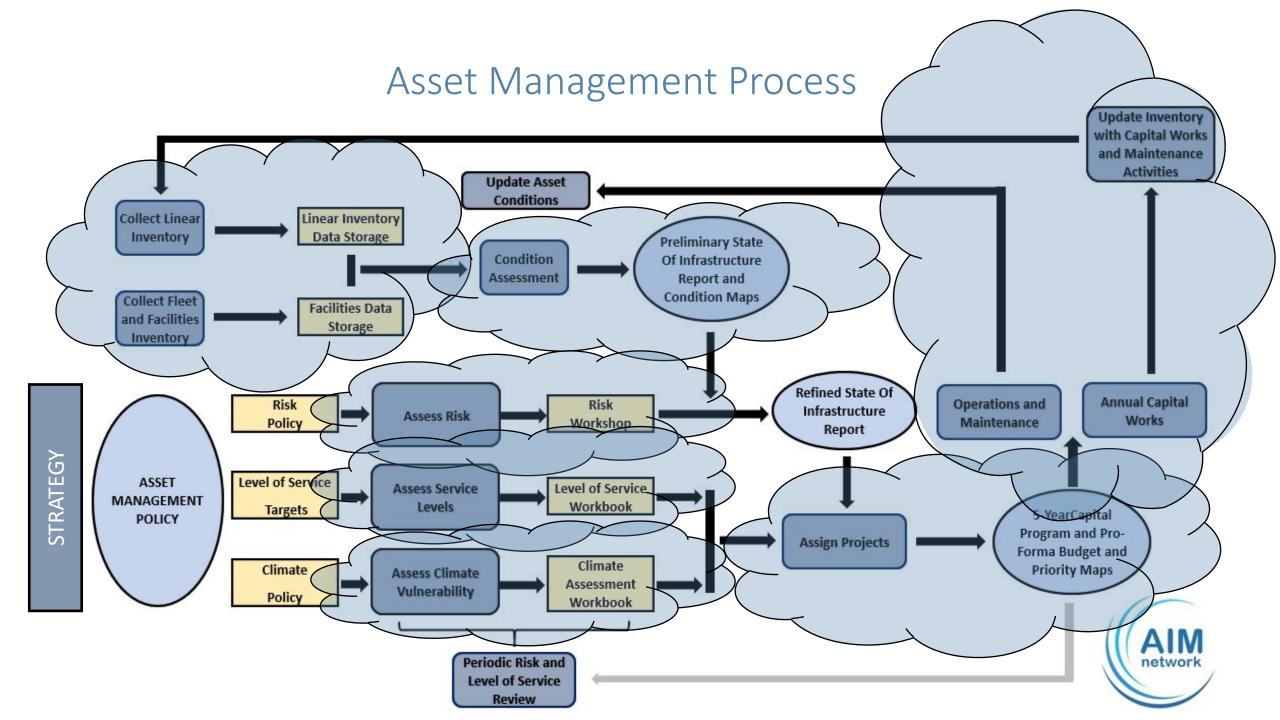


Asset Management Roadmap - Sorted By Year

This Asset Management Roadmap/Workplan has resulted from an assessment of our municipality's capacity to integrate asset management planning activities. The assessment was undertaken on January 6, 2023. Staff members participated in the assessment and developing the resulting workplan. The activities and priorities identified in the plan are circulated for review by council as needed determined by the Town Clerk / Manager.

By Year	Category	Activity
2022-2023	Core Asset Data Facilities: Building Architectural and Structural	Complete building data collection in NL data collection tool
2022-2023	Core Asset Data Facilities: Building Architectural and Structural	Incorporate buildings in 5-year capital plan
2022-2023	Core Asset Data Facilities: Electrical and SCADA	Complete building data collection in NL data collection tool
2022-2023	Core Asset Data Facilities: Electrical and SCADA	Incorporate buildings in 5-year capital plan
2022-2023	Core Asset Data Facilities: Mechanical, Plumbing and HVAC	Complete building data collection in NL data collection tool
2022-2023	Core Asset Data Facilities: Mechanical, Plumbing and HVAC	Incorporate buildings in 5-year capital plan
2022-2023	Core Asset Data: Storm-Water Collection Network	Complete asset inventory in GIS and NL reporting tool
2022-2023	Core Asset Data: Storm-Water Collection Network	Complete level of service assessment
2022-2023	Core Asset Data: Transportation System	Complete asset inventory in GIS and NL reporting tool
2022-2023	Core Asset Data: Transportation System	Complete level of service assessment
2022-2023	Core Asset Data: Wastewater Collection: Sanitary or Combined Network	Complete asset inventory in GIS and NL reporting tool
2022-2023	Core Asset Data: Wastewater Collection: Sanitary or Combined Network	Develop 5 year capital projection plan and identify gaps based on risk assessment
2022-2023	Core Asset Data: Wastewater Collection: Sanitary or Combined Network	Complete level of service assessment
2022-2023	Finance	Develop a 5 year capital program
2022-2023	Governance Information	Adopt asset management policy
2022-2023	Governance Information	Develop roadmap





Geographic Information Systems

Mapping Your Way to Success



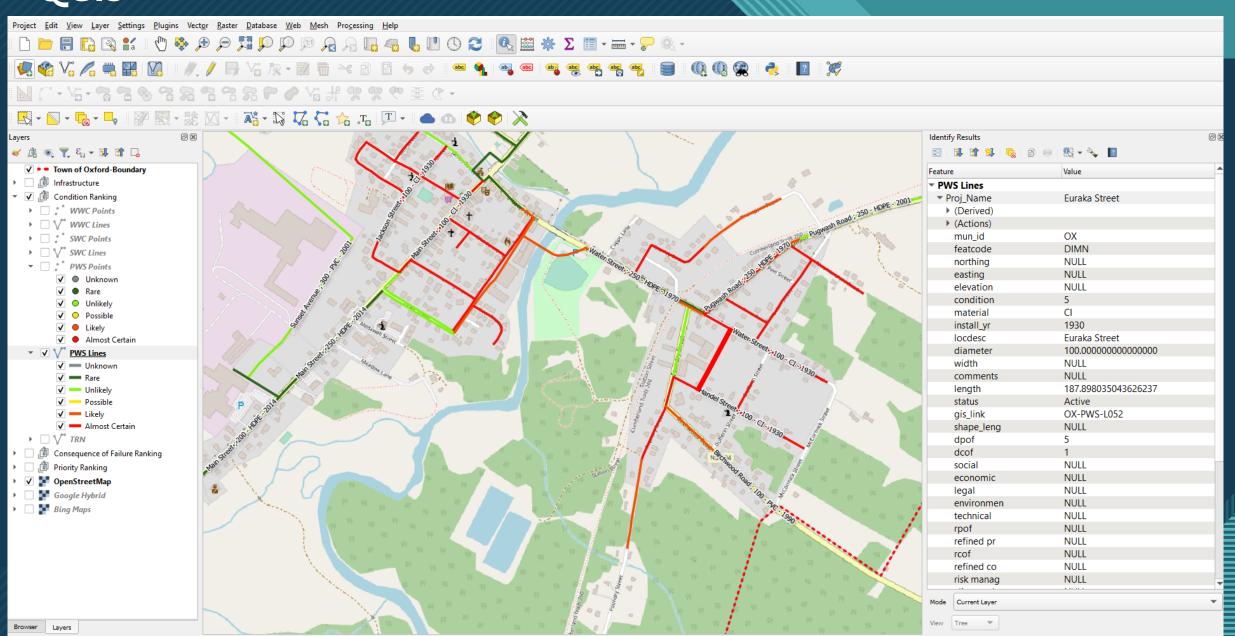


GIS - Geographic Information Systems

- QGIS free, open-source GIS software: www.qgis.org
- Contains maps of infrastructure locations and asset information
- Mapping for easy visual interpretation of data
- Integrates with planning and forecasting tool







Facilities Data Entry

Easy access to vertical assets





Facilities Data Collection

Fleet

Fleet

FLT Facility Condition Index:

2.32

Vehicles VE Total Estimated Cost: \$1,767,500.00

Delete this sheet

Data Entry Tabl	
	-
Data Liiti y i abi	

Component Name	Туре	Description	Lookup	Quantity	Unit	Rate		Life Expectancy (Yrs.)	Life Expectancy Replacement / Renovation
Tractor		1993 Massey Ferguson 1180 MF 1180-4					\$ 50,000	25	25
Backhoe		1993 Amerequip 80A backhoe					\$ 15,000	25	25
Truck		2022 Ford F-250 superduty					\$ 60,000	15	15
Trailer		2004 LWL low tilt trailer					\$ 5,000	20	20
Tractor		2005 Kubota B7800 HSD					\$ 50,000	25	25
Aerator		2010 Befco aerator					\$ 6,000	15	15
Lawn mower		2011 Toro G-3					\$ 8,000	15	15
Lawn mower		2013 Toro 3000					\$ 16,000	15	15
Power Rake		2014 woods power rake					\$ 20,000	15	15
Lawn mower		2015 Toro 3000					\$ 16,000	15	15
Sprayer		1998 Hardi sprayer					\$ 5,000	15	15
Lawn mower		2017 toro 3000-					\$ 18,000	15	15
Lawn mower		2011 Toro z-500					\$ 5,000	15	15
Plow		2021 Myers plow					\$ 6,000	25	25
Truck		2014 F-150 king cab 2wd					\$ 80,000	15	15
Trailer		2019 NNTRA Utility Trailer					\$ 4,000	20	20



Managing Your Inventory

The Capital Inventory Planning Tool





Capital Inventory Tool

Inventory and Reporting Tool

This tool is a data storage and reporting tool that has been developed to help municipalities make informed asset management decisions and communicate those decisions to staff, municipal councils and local residents

What do you want to do today?

	I want to	User Guide Reference		I want to	User Guide Reference
View My Inventory	View my data in the inventory spreadsheet. Data is locked for editing. Remember, you can change the columns that you see using the button that says "Change My Column View" button.	Section 2	Edit Asset Risk Values	Assign projects to assets to group them into combined capital cost items. Note that this is convenient to do in GIS!	Section 4
Edit My Inventory	View my data, but unlock the spreadsheet first so I can edit the information.	Section 2.2	Export Data or Reports	Export Preliminary State of Infrastructure Reports Export Refined State of Infrastructure Reports Export Data to Excel, CSV or GIS	Section 2.6
Import Data	Import data from GIS, an external spreadsheet or the fleet and facilities tool	Section 2.4	Assign Projects	Assign projects to assets to group them into combined capital cost items. Note that this is convenient to do in GIS!	Section 5
Run Calculations	Run calculations to generate Preliminary State of Infrastructure Reports, Refined State of infrastructure Reports and Pro-Forma Budgets.	Section 2.5	View My Budget	View my pro-forma budget for 5-year capital planning.	Section 6
View Mv	Edit my risk profile and view view my risk based				





Risk Profile

projections. If you want to change your risk

profile, you have to Toggle Edit Mode to unlock the

Section 4



Preliminary State of Infrastructure Report

2. Water Supply

a) Summary of Inventory, Costs, and Condition

The following table summarizes the water network data that has been captured and reported on.

95,267 m	Total length of water pipe
147	Number of hydrants
722	Number of valves
7	Number of other assets captured

The following table shows estimated value and annual reserves required for different water network asset groups.

Asset Sub-Class	Cost (\$)	Cost (%)	Annual Reserve (\$)	Annual Reserve (%)
Pipes	\$ 53.0 M	71%	\$ 796.6 K	69%
Pumping Station	\$ 0.0 K	0%	\$ 0.0 K	0%
Valves	\$ 1.7 M	2%	\$ 21.6 K	2%
Hydrants	\$ 651.0 K	1%	\$ 8.1 K	1%
Water Treatment	\$ 19.2 M	26%	\$ 320.3 K	28%
Other	\$ 0.0 K	0%	\$ 0.0 K	0%
Grand Total	\$ 74.6 M	100%	\$ 1.1 M	100%

These tables summarize the average condition of different wastewater network asset groups.

	Average Condition
Manholes	2.5
Pipes	2.6
Pumping Stations	
Valves	2.7
Wastewater Treatment	0.1
Other	1.1

Condition							
Rating	Description						
1	Very Good						
2	Good						
3	Fair						
4	Poor						
5	Very Poor						

Preliminary State of Infrastructure Report

1. SUMMARY OF ALL ASSET CLASSES

a) Estimated Replacement Costs and Annual Reserve

This table shows the total estimated replacement costs and annual reserves required of your asset classes.

Asset Class/Sub-Class	Cost (\$)	Cost (%)	Annual Reserve (\$)	Annual Reserve (%)
Water Supply	\$ 74.6 M	34%	\$ 1.1 M	119
Pipes	\$ 53.0 M	24%	\$ 796.6 K	89
Pumping Station	\$ 0.0 K	0%	\$ 0.0 K	09
Valves	\$ 1.7 M	1%	\$ 21.6 K	09
Hydrants	\$ 651.0 K	0%	\$ 8.1 K	09
Water Treatment	\$ 19.2 M	9%	\$ 320.3 K	39
Other	\$ 0.0 K	0%	\$ 0.0 K	09
Transportation	\$ 55.9 M	26%	\$ 7.8 M	769
Roads	\$ 35.2 M	16%	\$ 7.4 M	729
Sidewalks and Trails	\$ 2.0 M	1%	\$ 62.7 K	19
Bridges	\$ 0.0 K	0%	\$ 0.0 K	09
Signs and Signals	\$ 0.0 K	0%	\$ 0.0 K	09
Barriers and Fences	\$ 0.0 K	0%	\$ 0.0 K	09
Lights	\$ 18.7 M	9%	\$ 312.1 K	39
Other	\$ 0.0 K	0%	\$ 0.0 K	09
Waste Water	\$ 84.3 M	39%	\$ 1.3 M	129
Pipes	\$ 46.9 M	22%	\$ 660.0 K	69
Pumping Station	\$ 5.2 M	2%	\$ 104.2 K	19
Manholes	\$ 8.9 M	4%	\$ 111.7 K	19
Valves	\$ 0.0 K	0%	\$ 0.0 K	09
Wastewater Treatment	\$ 23.3 M	11%	\$ 387.5 K	49
Other	\$ 0.0 K	0%	\$ 0.0 K	09
Storm Water	\$ 2.1 M	1%	\$ 27.5 K	09
Pipes	\$ 2.1 M	1%	\$ 27.5 K	09
Pumping Station	\$ 0.0 K	0%	\$ 0.0 K	09
Manholes	\$ 0.0 K	0%	\$ 0.0 K	09
Catch Basins	\$ 0.0 K	0%	\$ 0.0 K	09
Other	\$ 0.0 K	0%	\$ 0.0 K	09
Facilities	\$ 0.0 K	0%	\$ 0.0 K	09
Outdoor Parks and Rec	\$ 0.0 K	0%	\$ 0.0 K	09
Indoor Parks and Rec	\$ 0.0 K	0%	\$ 0.0 K	09
Municipal Offices	\$ 0.0 K	0%	\$ 0.0 K	09
Public Works	\$ 0.0 K	0%	\$ 0.0 K	09
Firehall	\$ 0.0 K	0%	\$ 0.0 K	09
Other	\$ 0.0 K	0%	\$ 0.0 K	09
Fleet	\$ 0.0 K	0%	\$ 0.0 K	09
Vehicles	\$ 0.0 K	0%	\$ 0.0 K	09
Other	\$ 0.0 K	0%	\$ 0.0 K	09
Grand Total	\$ 216.8 M	100%	\$ 10.2 M	100%

Risk Assessment

How Much is Too Much?





Understanding Risk

Risk cannot be eliminated, only managed to an acceptable level









How Bad is "Bad"?

	Consequence of Failure Assessment Matrix										
RISK LEVEL	RANK	SOCIAL / CULTURAL / POLITICAL	ECONOMIC	LEGAL	SAFETY	ENVIRONMENTAL					
INSIGNIFICANT	1	Public will not notice. No impact to cultural resources or groups. No impact to relations with other levels of government.	Costs are minor and expected within ongoing operational budget.	No regulatory or legal impacts.	No risk to safety above baseline conditions.	No impact to the environment.					
MINOR	2	Minor public notice, public contacts staff only - single point of contact. Municipality can alert the public prior to social media activity. No impact to cultural resources or cultural groups. No impact to relations with other levels of government.	Unexpected operational cost can be accommodated by redistribution of yearly budget.Grant can offset the unexpected cost.	Failure may result in small claims.	1	Short term effects to the environment requiring one time remediation of mitigation to restore the system to its original state. Notification to NSE.					
MODERATE	3	Moderate public notice - multiple single points of contact, elected officials are contacted. Social media has a presence in terms of pictures or video. Coverage in local news, requires official municipal response. Impact to cultural groups limited.	accommodate. No long term financial	Failure may result in litigation and informal inquiry.	short or long term injury, no risk of	Short term effects to the environment requiring temporary remediation or mitigation which restore the system to its original state. Submit plans for approval to NSE.					
MAJOR	4	Potential for injury. Mayor / CAO is notified. Public notice is widespread, large volume of multiple contacts. Social media has a strong awareness in terms of pictures or video. Coverage in local news, requires official municipal response. Interruption of service greater than 1 day. Coverage in provincial news. Impact to cultural groups widespread.	Unexpected operational cost requires cancellation of major planned activities to accommodate. Long term financing required to accommodate. Loss of commericial or tourism service greater than 5 days.	Failure may result in class action litigation and formal inquiry.	More likely than not to cause short or long term injury, low potential for	Long term effects to the environment requiring sustained remediation or mitigation. System may not ultimately reach its original state. NSE issues a directive to the Town.					
CATASTROPHIC	5	Potential for loss of life. Interruption to critical services for greater than 1 day. Coverage on The National.	Property damage that the Town is liable for. Loss commercial or tourism service greater than a season. Financing requirements may render the municipality insolvent.	Failure results in contravention of laws, significant litigation, court action and multiple litigations.	More likely than not to cause short or long term injury, potential for loss of life.	Permanent or long term environmental effects that cannot be remediated or mitigated. Failure to comply results in legal action.					



Risk and Climate Demonstration

CLIMATE CHANGE ADAPTATION WORKBOOK

This workbook provides climate data relevant to our municipality and an assessment of potential impacts to infrastructure on a level of service basis. It identifies how different service areas may be affected by predicted climate change effects and what adaptation activities may be required to protect services from those impacts. Each adaptation activity is assessed against the "do nothing" option to aid in capital planning activities through the lens of climate change by following this flow chart:

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- Refer to your Level of Service Workbook for service areas and supporting assets
- Gather regional and local climate change information
- Identify climate change impacted service areas
- Identify risks to levels of service from climate change impacts

Assessment

- Determine how level of service will change under a changing climate
- Enter a specific service disruption from climate change.

Strategies

- Identify strategies to close service gaps from climate change
- Assign order of magnitude costs to the adaptation activities
- Assign order of magnitude costs to the "do nothing" option
- 12. Enter costs into the "Loss Avoided Analysis"

Management

- Select actions with positive "Loss Avoided" percentages
- Prioritize from highest "Loss Avoided" percentage to lowest
- Integrate actions into Asset Management Planning
- Monitor progress and explore opportunities for continuous improvement

	Consequence										
Probability	1	1 2 3 4 5									
1	1	3	6	10	15						
2	2	5	9	14	19						
3	4	8	13	18	22						
4	7	12	17	21	24						
5	11	16	20	23	25						

	Risk Tolerance					
Risk Class	Low	High				
Lowest	1	6				
Low	7	15				
Medium	16	19				
High	20	22				
Extreme	23	25				

Level of Service Assessment

The Heartbeat of Asset Management





What Are Levels of Service?

LOS are specific parameters that describe the extent and quality of services that the municipality provides to users.



Cadillac?



or

Volkswagen?



Level of Service Toolkit

_	 						-					
				Customer Levels of Service								
	Service Characteristic	Indicator	Low			High	#	Curr	ent Level of Service			
			1	2	3	4	#	Cun	ent Level of Service			
Gene	eral Transportation											
		Active transportation systems are accessible year-round	No winter maintenance is performed on active transportation systems.	Some winter maintenance is performed on active transportation systems to ensure recreational functions on major routes.	Complete winter maintenance is performed on active transportation systems for transportation functions and some winter maintenance on recreational routes.	Winter maintenance is performed on active transportation is performed to ensure e transportation route is resonably accessible year round to the same prioity as roadways.		on active trai	maintenance is performed nsportation systems to ational functions on major			
		Technical Levels of S	Service	Operation	nal Levels of Service							
#	Target Level of Service	Definition	Comments	Definition	Comments	Performance I	Performance Measures		Source Document			
	Pave	ed Trail:										
	plowing and sanding completed within 3-			Now truck play with cand enrander								

Reception Log





Level of Service Tool

Performance Gap	Performance Gap Describe Performance Gap to be Addressed		Describe Sustainability Gap to be Addressed	А	В	С	Preferred Option
Yes	2 kilometers of paved trail (QR Trail) does not have adequate winter maintenance and the public is requesting it	No		Maintain level of service as is and do nothing.	Purchase a new truck, spreader and add a new hire		Run a pilot project to contract out the service
		Preferred Option	Lifecycle Cost (\$)				

		Prefei	red Option Life	cycle Cost (\$)		
Preferred Option	Considerations to Develop Life Cycle Cost	Capital Expense	Yearly Cost (Capital plus O&M)	Decommissioning Cost (+\$) or Salvage Value (-\$)	Timeframe	Notes
		\$0	\$770,000	\$0		
Run a pilot project to contract out the service	Quote from supplier		\$20,000	\$0	1 year	Current year costs were approx. \$10K, expect greater costs in future because of the mild winter, set annual estimate at \$20K. To provide serivce inhouse requires purchase of approx. \$85K new truck, new \$20K sand spreader and additional staff, current staff is at capacity with sidewalks.



Level of Service Toolkit

Documented Level of Service Renor

yTown February 28, 2019

This report provides a summary of staff and asset management committee estimates of the current community levels of service, target levels of service that the Community is mandated or is expected to provide, actions required to bring current levels of

service in line with the target levels of service. MyTown has the following goals and commitments in service delivery:

- Comply with all legislative requirements.
- Provide capacity, quality, and reliability expected by Council and residents.
- Ensure the safety of services and infrastructure.
- Consider sustainability and long-term benefits to future generations.

We deliver a wide range of community services including: drinking water, wastewater, urban stormwater (drainage), solid waste, transportation, recreation and culture, protective, general government and energy. The infrastructure we own, operate and maintain is used to support the delivery of these services.

In assessing the community levels of service, the team has assessed whether there are service performance gaps in relation to indicators common to each service: regulatory requirements, capacity / availability of the service, safety, quality, reliability and environmental impacts. Sustainability gaps have also been assessed, where "Sustainability" means "Is the service adequate to sustain the current level of service for the near, mid, and long term growth forecasts?"

If there is no line item for one of the service performance in report below, that indicates that it is functioning at the committed level of service, and no action plan is required to address a level of service gap. If a gap, either performance or sustainability, has been identified, it is displayed below along with a preferred option to adjust the current level of service to the target level of service.

Cost estimates below should be considered Order of Magnitude cost estimates, and are intended to compare options. They should not be interpreted as engineering estimates or firm budget number for capital planning.

Service Characteristic	Indicator	Performance Gap	Describe Performance Gap to be Addressed	Sustainability Gap	Describe Sustainability Gap to be Addressed	Preferred Option	Lifecycle Costs	Timeframe	Notes
Potable Water									
Regulatory	Drinking water quality complies with statutory requirements	No		Yes	Potential Staffing succession planning issue	Internal Training	The Capital Expense is \$0.00 The Yearly Cost is \$20,000.00 The Decommissioning Cost is \$0.00	5 years	Short term option to contract in even of sudden staffing change
Capacity / Availability	Available water supply is sufficient for customers' needs	No		Yes	Climate Change	Reduce Water Loss	The Capital Expense is \$100,000.00 The Yearly Cost is \$50,000.00 The Decommissioning Cost is \$0.00	5 years	
Safety	Water supply is sufficient for firefighting purposes	Yes	No defined hydrant maintenance plan	Yes	Additional workload will require additional staff	Set an achievable maintenance frequency	The Capital Expense is Unknown The Yearly Cost is Unknown The Decommissioning Cost is Unknown	2 Years	Maintenance and capital costs would be ongoing
Quality	Water service pressure is adequate at customer connections	Yes	Encourage or subsidize household Pressure reducing valves or jack pumps in affected areas	No		Educate Home Owners	The Capital Expense is \$10,000.00 The Yearly Cost is \$5,000.00 The Decommissioning Cost is \$0.00	Annual	
Quality	Water quality is aesthetically pleasing	Yes	Clacium and coloration issues in Bridgetown and Cornwallis respectively	No		Educate home owners	The Capital Expense is \$0.00 The Yearly Cost is \$500.00 The Decommissioning Cost is \$0.00	Annual	
Reliability	Water quality notices are infrequent and short in duration	Yes	We experience boil orders due to transmission line breaks	No		Replace failing infrastructure	The Capital Expense is \$0.00 The Yearly Cost is \$500.00 The Decommissioning Cost is \$0.00	20 Years	Major replacements timed to coincide with road recapitalization
Wastewater									
Regulatory	Discharges comply with statutory requirements	No		Yes	Potential Staffing succession planning issue	Internal Training	The Capital Expense is Unknown The Yearly Cost is Unknown The Decommissioning Cost is Unknown	5 years	Short term option to contract in event of sudden staffing change
Capacity / Availability	Treatment capacity is adequate for peak flow	Yes	Need to reduce system infiltration	No		Reduce infiltration by replacing lines identified as having high infiltration. To be done concurrently with co-located services	The Capital Expense is Unknown The Yearly Cost is Unknown The Decommissioning Cost is Unknown	5 years	







Financial Projections and Capital Planning

Bringing it to the finish line



Risk Assessment

	Consequence								
Probability	1	2	3	4	5				
1	1	3	6	10	15				
2	2	5	9	14	19				
3	4	8	13	18	22				
4	7	12	17	21	24				
5	11	16	20	23	25				

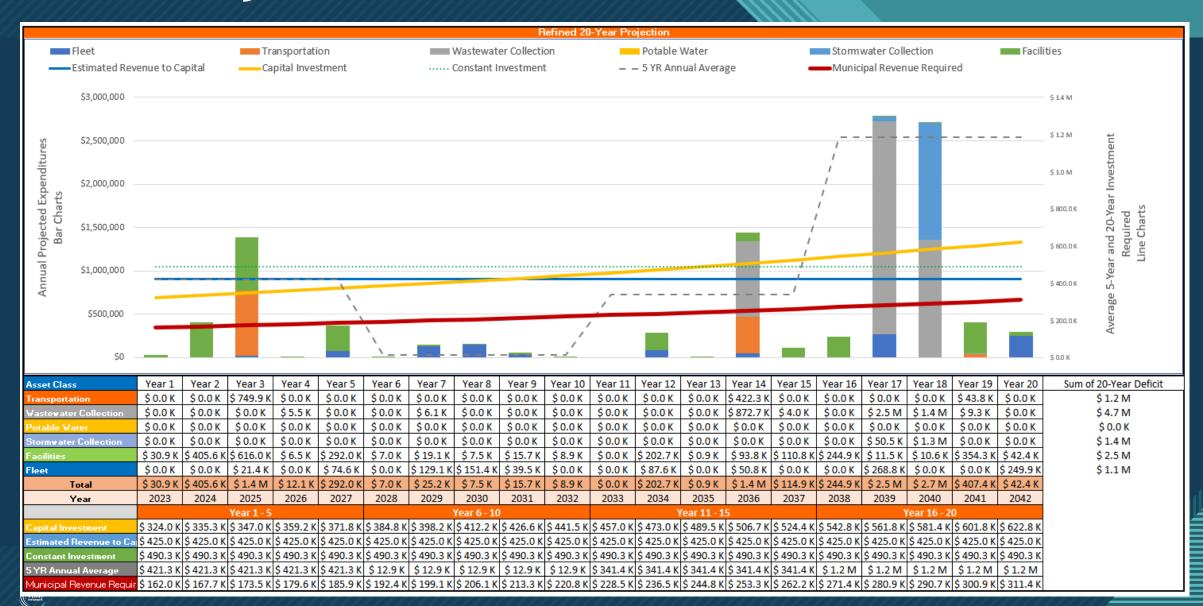
	Risk Tolerance					
Risk Class	Low	High				
Lowest	1	6				
Low	7	15				
Medium	16	19				
High	20	22				
Extreme	23	25				

Projections

- Extreme Risk = Immediate
- Condition 6 = Five Year Plan
 - Risk = Extreme, year 1
 - Risk = High, year 2
 - Risk = Medium, year 3
 - Risk = Low, year 4
 - Risk = Very Low, year 5
- High Risk
 - Set in year 1 to 5 based on useful life
- Other
 - Worst Risk = Extreme, 60% of useful life
 - Worst Risk = High, 75% of useful life
 - Worst Risk = Medium, 90% of useful life
 - Worst Risk = Low, 100% of useful life
 - Worst Risk = Very Low, 120% of useful life

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20-Year Projections





50-Year Projections







5-Year Budgets

Sum of Asset Renewal Cost	Column Labels 🔻					
Row Labels	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Grand Total
⊟ (blank)	\$70,000.00	\$60,000.00				\$130,000.00
Admin Capital Commissioning	\$25,000.00					\$25,000.00
Public Works 3/4 Ton Pickup		\$60,000.00				\$60,000.00
Bylaw Inspection 1/2 ton Pickup	\$45,000.00					\$45,000.00
☐ Transportation			\$700,000.00	\$107,620.70		\$807,620.70
Jordan River Bridge			\$700,000.00			\$700,000.00
Jordan River Trail				\$50,702.70		\$50,702.70
Roseway River Trail				\$22,818.02		\$22,818.02
Tom Tigney Trail				\$34,099.99		\$34,099.99
─ Waste Water		\$60,069.40				\$60,069.40
Sandy Point Road WWC		\$60,069.40				\$60,069.40
□ Facilities	\$369,500.00	\$45,000.00	\$20,000.00	\$95,000.00	\$395,000.00	\$924,500.00
Jordan River Trail Change	\$42,000.00					\$42,000.00
RMRF Barriers				\$75,000.00	\$75,000.00	\$150,000.00
Wastewater Lagoon					\$300,000.00	\$300,000.00
Welkum Park Upgrades	\$257,500.00					\$257,500.00
WGH Baseball Field Phase 1	\$25,000.00					\$25,000.00
WGH Baseball Field Phase 2		\$25,000.00				\$25,000.00
Woodland Trail Upgrades	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$100,000.00
Sandy Point WWC Design Only	\$25,000.00					\$25,000.00
□ Fleet	\$20,000.00					\$20,000.00
ATV	\$20,000.00					\$20,000.00
Grand Total	\$459,500.00	\$165,069.40	\$720,000.00	\$202,620.70	\$395,000.00	\$1,942,190.10



Capital Financing Plans

What is a <u>realistic</u> plan?

- How much do we spend each year?
- What funding is available to supplement this investment?
- What is my debt strategy, considering debt servicing and balloon payments?
- Where are there gaps in our spending?
- How will we address them? Lower level of service and increased risk? Increased revenue?
- We can't just ignore it!



Helpful Tips

- > Take it easy: Make small but consistent steps forward
- > Think big: Establish processes with larger issues and add to them as you go
- **Keep focused:** The goal is sustainable services. Set priorities and stay focused on them.
- ➤ **Be efficient:** Use the 80/20 principle with applies consistent, repeatable and documented processes.
- Learn from others: Reach out to other municipalities and your network.



Additional Resources

AIM Network Support

- Touchpoint Newsletter: Subscribe on the website at <u>www.aimnetwork.ca</u>
- Online Training Workshops: <u>www.aimnetwork.ca/video-series-summary</u>
- Contact us at: info@aimnetwork.ca

Federation of Canadian Municipalities

• FCM Resource Library: https://fcm.ca/en/resources/mamp/asset-management-resources

Natural Asset Management

Municipal Natural Assets Initiative: www.mnai.ca

Canadian Network of Asset Managers

CNAM: www.cnam.ca







FCM Survey





https://www.surveymonkey.com/r/AIMNETABACT4

Partner Organization: AIM Network