Re: Item No. 6

# TRANSPORTATION & PUBLIC WORKS

2022/23 Budget & Business Plan Committee of the Whole on Budget February 9, 2022



# **MISSION**

We take pride in providing high-quality transportation and public works services to benefit our citizens. We make a difference.







## SERVICE AREAS

## Solid Waste Resources - Andrew Philopoulos, Director

Management of solid waste source separated collection and diversion programs

## Parking Services – Victoria Horne, Director (Parking Authority)

Administration, implementation and enforcement of policies, By-laws and regulations related to parking and curbside management

## **Traffic Management - Vacant, Director (Deputy Traffic Authority)**

Management of the municipality's transportation system with an emphasis on safety

## **Road Operations & Construction – Beverley Audet, Director**

Maintenance of a safe, efficient and clean street, sidewalk, bridge and walkway system

## **Project Planning & Design - David Hubley, Director**

Professional and technical services to support delivery of the road and active transportation capital programs

## **Cogswell District Project – John Spinelli, Project Director**

Management of the project transforming land into a vibrant, mixed-use neighbourhood, reintegrating historic aspects of downtown and the waterfront

# **ABOUT US**

ROADWAY LANES

3,900 km

MULTI-USE PATHS

201 km

**CURBS** 

2,214 km

SIDEWALKS

980 km

**BRIDGES** 

127

WALKWAYS

75 km

BIKE LANES (LINEAR)

77 km

STREETLIGHTS

45,287

WALKWAY LIGHTS

799

3

# **ABOUT US**

CROSSWALKS

2,589

PEDESTRIAN RAMPS WITH TACTILES

1,321

STORM WATER CATCHBASINS

33,160

SIGNALIZED INTERSECTIONS

280

LITTER BINS (RIGHT OF WAY)

900

STREET TREES

162,823

40 KM/H SIGNS

311

**DESIGNATED SMOKING** AREAS (RIGHT OF WAY)

90

PARKING PAY STATIONS

165

# **ABOUT US**

SHORT-TERM PAID PARKING SPACES

~1,500

**GREEN CARTS** 

141,081

MATERIAL RECOVERY FACILITY

1

ACCESSIBLE ON-STREET PENINSULA PARKING SPACES

182

RURAL REFUSE DEPOTS

2

MUNICIPAL LANDFILLS

2

COMMUTER PERMIT SPACES

610

HOUSEHOLD SPECIAL WASTE DEPOT

1

ORGANICS MANAGEMENT PLANTS

2

## **SUCCESSES**



Awarded Cogswell District Project construction tender ~\$96M



Tendered 96 per cent of \$95.3M roads, bridges, and active transportation budget



Installed traffic calming measures on 109 streets



Added traffic calming infrastructure and road safety countermeasures tracking to Open Data



Adopted new Winter Operations standards and implemented new parking ban process



Established Administrative Order for Active Transportation & Recreational Trails to provide grants and support planning, construction, operation & maintenance (IMP Action #80)

# SUCCESSES



Supported COVID business recovery with parking initiatives



Developed and adopted accessible parking standards



Planted 3,100 street trees



Initiated new illegal dumping campaign and enhanced enforcement measures

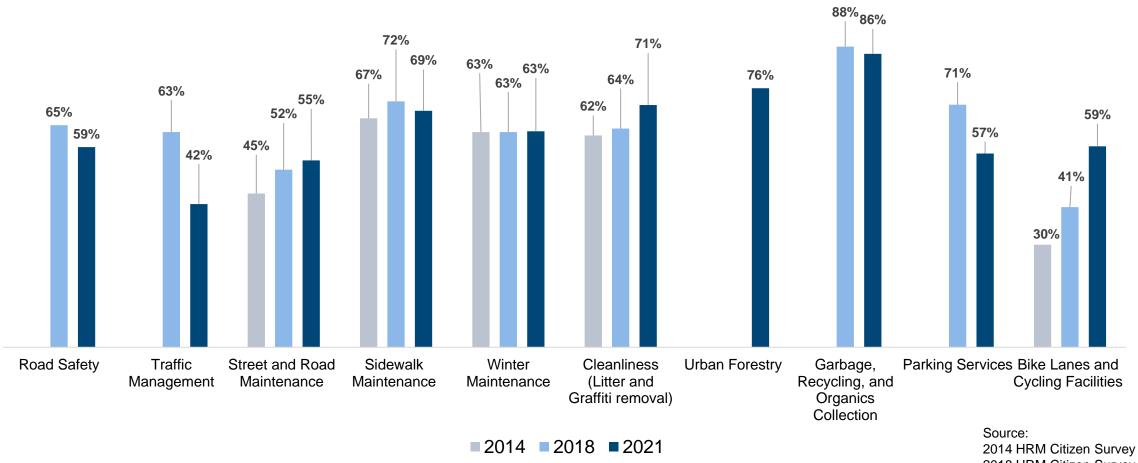


Commenced construction of the new 60,000 tonnes/year composting facility



Established target level of service for road pavement network

## Satisfaction with TPW Services: 2014 to 2021



# Parking Service Requests

Parking Service Requests	2018/19	2019/20	2020/21	2021/22*
Total Service Requests	16,846	19,085	14,370	13,636
Total Service Requests Closed within Standard	16,803	18,086	13,872	13,414
% of Service Requests Closed within Standard	99.7%	94.8%	96.5%	98.4%

<sup>\*</sup>As of January 7, 2022

# Parking Session Data

Payment Type	Count	Share
Coin	65,310	9.8%
Card Tap (Debit or Credit)	235,713	35.3%
Card Insert (Credit)	19,245	2.9%
Mobile Payment (App)	347,793	52.1%
TOTAL	668,061	

<sup>\*</sup>From April 1, 2021, to December 31, 2021

## School Zone Proactive Patrols

ltem	Total
Tickets	109
Warnings	360
Patrols	204

<sup>\*</sup>From April 1, 2021, to December 31, 2021

## Fatal & Injury Collisions

Year	Total Collisions	Total Collisions per 100,000 population	Fatal Collisions	Injury Collisions	Total Fatal + Injury Collisions		Reduction Total Fatal +	% Traffic Volume Reduction during COVID-19 Pandemic**
2018	6056	1408.7	17	750	767	178.4		-
BAS	SELINE					184.9		-
2019	6222	1415.6	17	824	841	191.3	-3.50%	-
2020	4570	1018.9	8	634	642	143.1	22.6%	21.4%
2021*	4926	1071	9	704	713	155	16.1%	11.7%

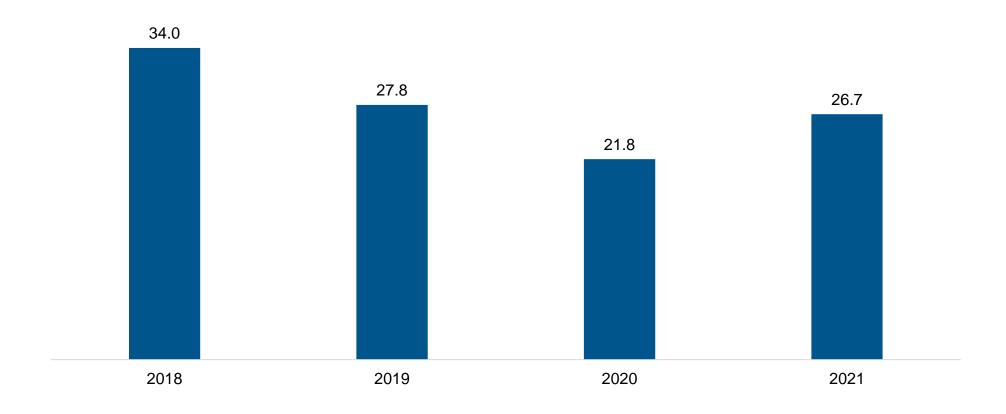
- · All collisions within provincial and municipal road right of way
- Based on closed collision files received from Halifax Regional Police and Royal Canadian Mounted Police as of January 5, 2022. Future reports may vary.

Regional Council's goal 'Toward Zero' is to reduce fatal and injury collisions by 20% by 2023

<sup>\*</sup> As of January 17, 2022, there were 7 fatalities reported in 2021 with closed collision files, however 2 additional fatalities occurred in November 2021 that are still under investigation which are included in the above total.

<sup>\*\*</sup> Annual traffic volume reduction in comparison to 2019 traffic volumes on the Halifax Harbour Bridges.

# Pedestrian Fatal & Injury Collisions per 100,000



Traffic Safety Measures <sup>(1)</sup>	2018/2019	2019/2020	2020/2021	2021/2022	Total Completed	2022/2023 (Proposed)
Leading Pedestrian Intervals	8 (Pilot) <sup>(2)</sup>	2	15	13	38	20
Rectangular Rapid Flashing Beacon	3	3	12	17	41 <sup>(3)</sup>	27
Accessible Pedestrian Signal	4	5	5	6	99 <sup>(4)</sup>	15
Speed Display Signs	=	3	13	0 <sup>(5)</sup>	16	15
Traffic Calmed Streets	13	13	30	109	168 <sup>(6)</sup>	92 <sup>(7)</sup>
40 km/h Neighbourhoods	-	1	6	7	14	7
Advance Yield Lines at Crosswalks	-	-	7 (Pilot)	5	12	5

<sup>(1)</sup> As of January 17, 2022

<sup>(2)</sup> IMP Action #6

<sup>(3) 6</sup> installed prior to 2018/2019 as pilot (IMP Action #6)

<sup>(4) 79</sup> completed prior to 2017

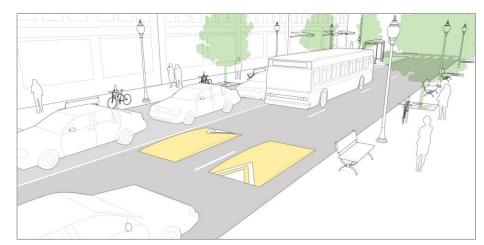
<sup>(5)</sup> No new signs, existing inventory relocated

<sup>(6) 3</sup> installed in 2017/2018

<sup>&</sup>lt;sup>(7)</sup> Includes 8 carryover projects tendered in 2021/22

#### **COUNCIL PRIORITIES**

- Improve Road Safety 'Towards Zero' (IMP Action #4)
  - Develop next Strategic Road Safety Plan 2024 2028
  - Implement traffic safety measures (as planned on slide 12)
  - Trial and evaluate speed cushions as potential traffic calming measures
  - Develop implementation plan for installation of traffic calming measures in remaining school zones
  - Establish dedicated parking enforcement unit for school zones and beaches

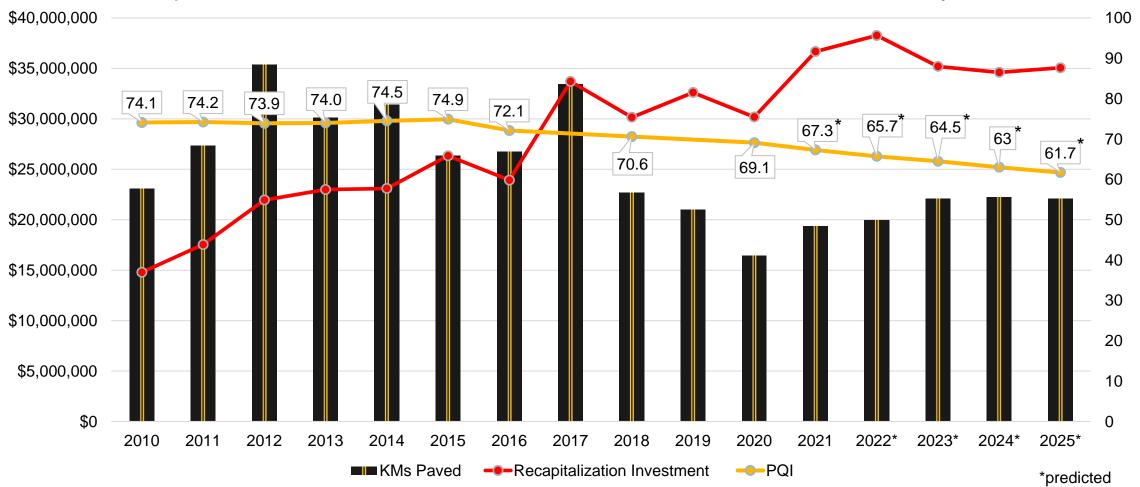


#### **COUNCIL PRIORITIES**

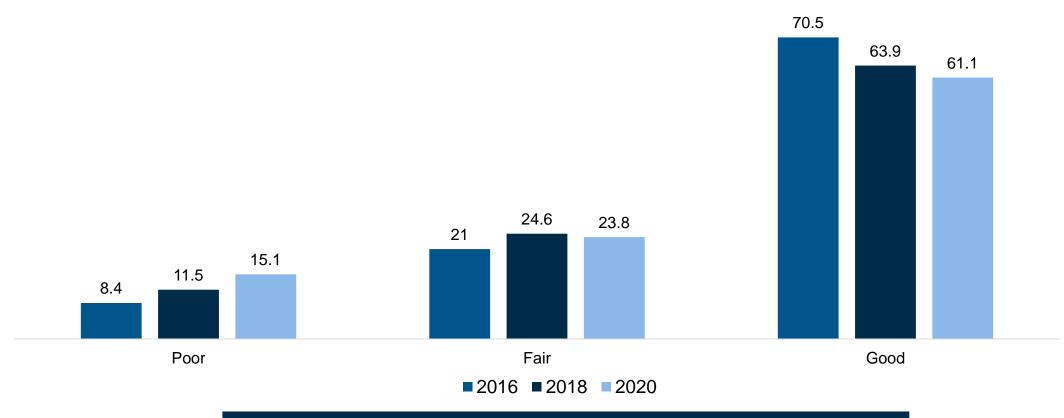
- Improve Road Safety 'Towards Zero' (IMP Action #4)
  - Implement semi-annual speed display sign program
  - Continue signalized intersection improvements from safety reviews and video analysis of near misses (IMP Action #7)
  - Commence implementation of recommendations from photo enforcement feasibility study
  - Implement Reactive Vegetation Management program



# Recapitalization Investment vs. Kilometers Paved vs. Pavement Quality Index



## Road Network Level of Service



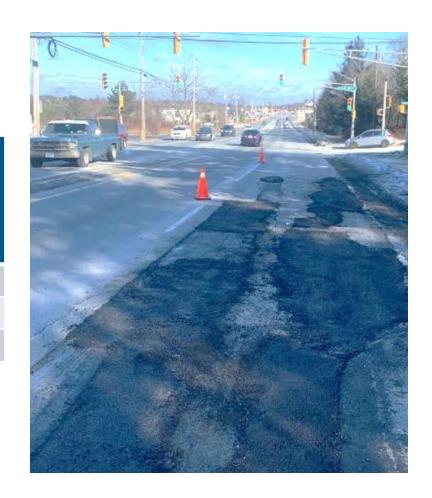
**Target Level of Service = 67% Good by 2030** 

# **Potholes**

Potholes	2020 Identified	2020 Completed Within Standard	2021 Identified*	Projected 2021 Completed Within Standard
Priority 1	1,264	78.2%	779	84.3%
Priority 2	4,022	100%	3,125	100%
Total	5,286	-	3,904	-

<sup>\*</sup> As of January 7, 2022

Priority 1 Pothole - 8 cm or greater in depth Priority 2 Pothole - Less than 8 cm in depth



#### **COUNCIL PRIORITIES**

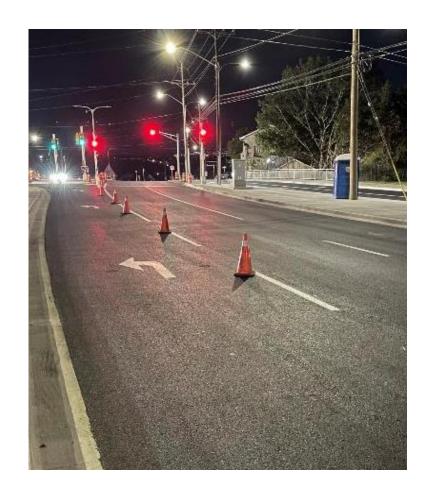
- Continue to prepare and implement processes for road transfer (310 lane km) from province
- Recommend target Level of Service for sidewalk maintenance
- Improve new sidewalk candidate selection process (IMP Action #39)
- Develop Level II Bridge maintenance and improvement recommendations
- Develop a program to replace zebra crosswalk markings with durable (thermoplastic) materials starting in 2023/24
- Continue title search and boundary review regarding ownership of non-accepted streets
- Complete review and update Streets and Encroachment By-law
- Revise Parking By-law to introduce minimum and maximum time of day pricing structures for paid parking (IMP Action #132 & #133)





#### **COUNCIL PRIORITIES**

- Deliver Key Capital Projects
  - Cogswell District Project commence construction of new street grid
  - Windsor Street Exchange preliminary design
  - Burnside Business Park construction phase 13-1
  - Dutch Village Road tender 22/23, construct 23/24 (IMP Action #32)
  - Downtown Dartmouth Infrastructure Renewal tender
  - Lady Hammond Road Bridge rehabilitation
  - Jubilee Road CN Bridge rehabilitation
  - Caldwell Road rehabilitation and multi-use path (IMP Action #7)
  - Cain Street recapitalization with traffic calming and sidewalk (IMP Action #7 & #38)
  - Raised crosswalks school/playground locations to be determined (IMP Action #6 & #7)



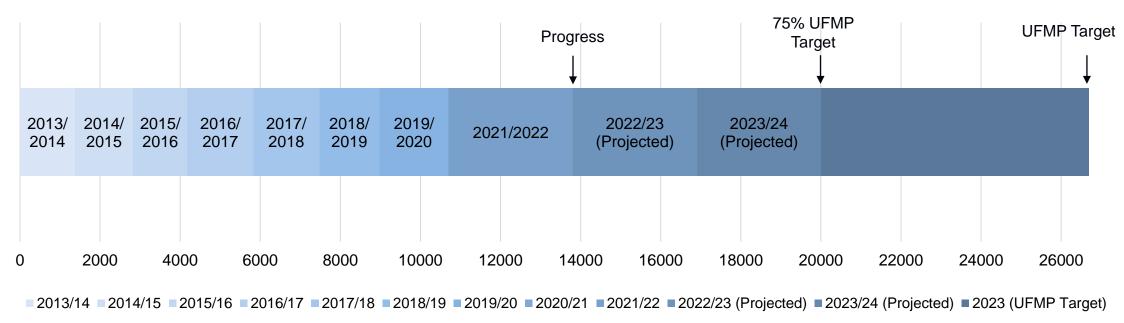
#### **COUNCIL PRIORITIES**

- Deliver Key Capital Projects
  - Regional Centre All Ages & Abilities Cycling Network 40 per cent complete – 23 of 57 km (IMP Action #72)
    - Hollis Street Phase 2 protected bike lane
    - Terminal Road protected bike lane
    - Almon Street protected bike lane
    - Joseph Howe Drive / Exit 0 active transportation improvements and Peninsula Connection
    - Macdonald Bridge Bikeway Connections (Halifax side) tender and initiate construction
    - AAA bikeways quick build / tactical
    - Get There by Bike marketing campaign
- Develop Rural Active Transportation / Sidewalk program for implementation in 2023/24





# Progress on Urban Forest Master Plan Tree Planting Target



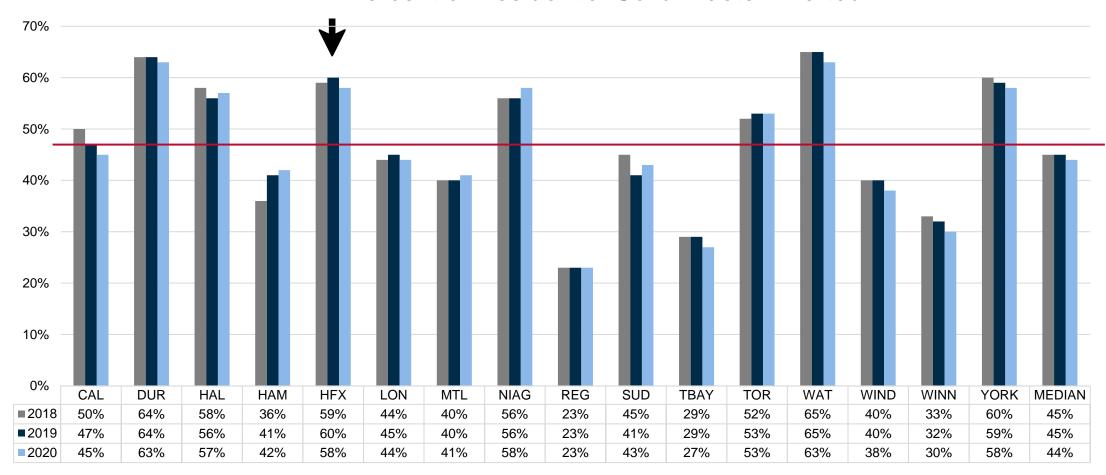
Urban	2021/22	2021/22	2021/22
Forest Measure	Planned	Actual	Projected
Trees Planted	3,100	3,100	3,100

Urban	2019/20*	2020/21	2021/22
Forest Measure	Actual	Actual	Actual**
Trees Removed / Lost	1,176	993	835

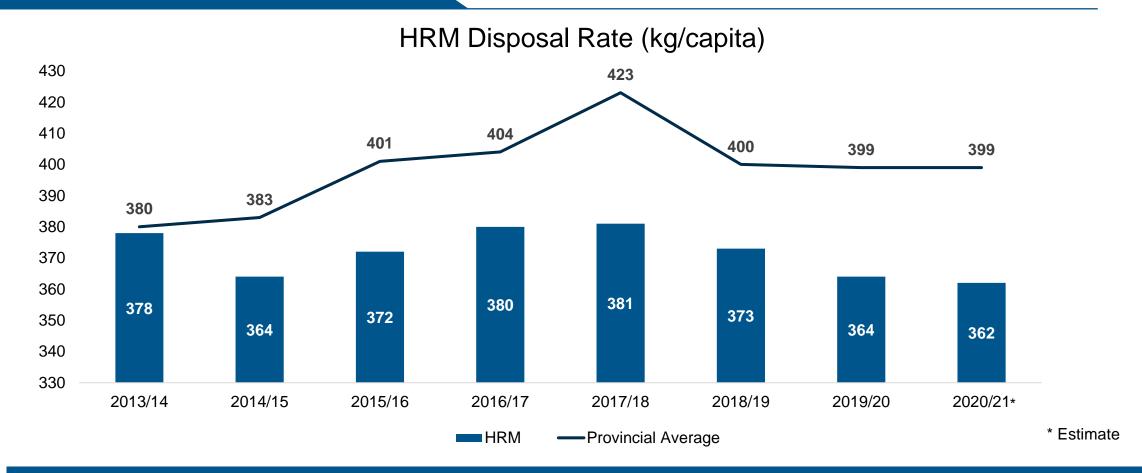
<sup>\*</sup>Hurricane Dorian year

<sup>\*\*</sup>As of December 2, 2021

## Percent of Residential Solid Waste Diverted



Source: Halifax compared to 2020 MBNCanada Performance Measurement Report



New provincial objective per the Environmental Goals and Climate Change Reduction Act: Reduce solid waste disposal rates to no more than 300 kilograms per person per year by 2030

#### **COUNCIL PRIORITIES**

**ENVIRONMENT** 

Continue Illegal Dumping & Litter By-law improvements

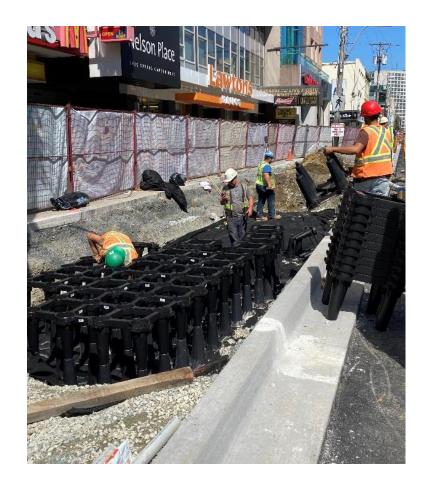
- Advertising campaign
- Litter awareness education & outreach for students
- Litter application implementation
- Continue enhanced enforcement
- Evaluate pet waste pilot project in municipal parks



#### **ADMINISTRATIVE PRIORITIES**

#### SERVICE EXCELLENCE

- Explore opportunities to develop multi-year capital program integrated with utilities for road and active transportation assets
- Develop curbside management policy
- Implement enhanced maintenance processes Spring Garden Road
- Review / improve / document right of way ditch maintenance roles,
   responsibilities and communication requirements





#### NET-ZERO MUNICIPAL OPERATIONS (NET-ZERO EMISSIONS)

- Construct new 60,000 tonnes/year composting facility
- Develop approach to mitigate greenhouse gas emissions Highway 101 landfill
- Develop greenhouse gas models of existing solid waste systems
- Support business units to improve waste diversion at municipal facilities

#### NET-ZERO MUNICIPAL OPERATIONS (PROTECTED & SUSTAINABLE ENVIRONMENT)

Review best practice 'green' recycling technologies for asphalt and concrete

#### ELECTRIFICATION OF TRANSPORTATION (NET-ZERO EMISSIONS)

Revise Parking By-laws to introduce Electric Vehicle Charging permits

NOTE: Does not include relevant capital expenditures / projects



#### GREENING GOVERNMENT OPERATIONS (PROTECTED & SUSTAINABLE ENVIRONMENT)

Continue developing Solid Waste Strategy Review Terms of Reference

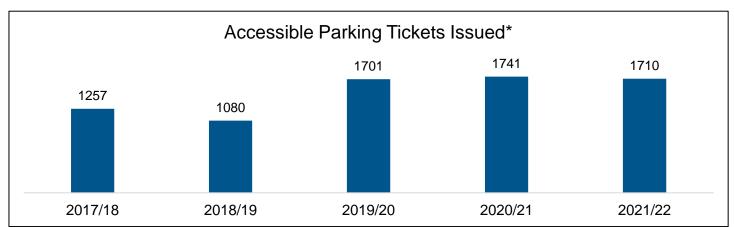
#### NATURAL AREAS AND GREEN INFRASTRUCTURE (PROTECTED & SUSTAINABLE ENVIRONMENT)

- Develop Urban Forest Master Plan 2.0
- Explore Private Tree Pilot Program (IMP Action #53)
- Street Tree Inventory (Districts 5 & 6)

NOTE: Does not include relevant capital expenditures / projects

#### **DIVERSITY & INCLUSION**

- Develop enforcement program for temporary workplace traffic control sign compliance
- Implement Pan-African crosswalk art pilot (IMP Action #46)
- Complete audit of existing on-street accessible parking spaces
- Upgrade 15 signalized intersections with Accessible Pedestrian Signals (IMP Action #39)



<sup>\*</sup> as of January 7, 2022 **HALIFAX** 



#### **OVERVIEW**

	2020/21	2021/22		2021/22	2022/23			
Expenditures	Actual	Budget	F	Projections	Budget		1/22 Budget	Δ%
Compensation and Benefits	\$ 24,078,355	\$ 27,144,500	\$	27,086,800	\$ 29,282,700	\$	2,138,200	7.9
Office	113,083	159,900		201,500	197,650		37,750	23.6
External Services	62,387,030	69,725,400		71,773,900	80,709,500		10,984,100	15.8
Supplies	381,236	364,500		390,400	385,750		21,250	5.8
Materials	1,761,521	2,649,200		2,621,800	2,563,500		(85,700)	(3.2)
Building Costs	3,739,746	3,376,800		3,366,800	3,393,500		16,700	0.5
Equipment & Communications	356,596	309,600		353,800	347,200		37,600	12.1
Vehicle Expense	69,956	96,500		89,800	116,500		20,000	20.7
Other Goods & Services	1,837,210	1,874,300		2,140,600	1,758,800		(115,500)	(6.2)
Interdepartmental	222,455	42,000		45,200	31,000		(11,000)	(26.2)
Debt Service	3,762	-		-	-		-	-
Other Fiscal	3,514,652	4,323,100		4,323,100	(22,000)		(4,345,100)	(100.5)
Total Expenditures	98,465,602	110,065,800		112,393,700	118,764,100		8,698,300	7.9

	2020/21	2021/22		2021/22	2022/23				
Revenues	Actual	Budget	P	rojections	Budget	Δ2	1/22 Budget	Δ%	
Transfers from other Govts	\$ (4,641,086)	\$ (3,983,000)	\$	(3,983,000)	\$ (3,283,000)	\$	700,000	(17.6)	
Fee Revenues	(6,835,904)	(12,162,200)		(11,848,600)	(12,491,600)		(329,400)	2.7	
Other Revenue	(1,953,787)	(1,535,000)		(1,740,000)	(1,857,000)		(322,000)	21.0	
Total Revenues	(13,430,777)	(17,680,200)		(17,571,600)	(17,631,600)		48,600	(0.3)	
Net Total	\$ 85,034,825	\$ 92,385,600	\$	94,822,100	\$ 101,132,500	\$	8,746,900	9.5	

#### SERVICE AREA OVERVIEW

	2020/21	2021/22		2021/22	2022/23			
Service Area	Actual	Budget	F	Projections	Budget	Δ 2	1/22 Budget	Δ%
Cogswell District Project	\$ -	\$ -	\$	-	\$ -	\$	-	-
Director's Office	523,155	487,400		496,100	495,700		8,300	1.7
Parking Services	(722,000)	(6,445,800)		(4,731,900)	(5,526,300)		919,500	(14.3)
Project Planning & Design	3,650,095	3,894,400		3,945,700	4,375,500		481,100	12.4
Road Operations & Construction	40,095,573	47,526,600		47,962,700	57,142,700		9,616,100	20.2
Solid Waste Resources	29,571,550	32,987,400		33,213,900	34,332,900		1,345,500	4.1
Traffic Management	11,916,452	13,935,600		13,935,600	10,312,000		(3,623,600)	(26.0)
Net Total	\$ 85,034,825	\$ 92,385,600	\$	94,822,100	\$ 101,132,500	\$	8,746,900	9.5

#### STAFF COUNTS

Full Time Equivalent	2021/22 Budget FTE	Transfers (+/-)	Changes (+/-)	2022/23 Budget FTE
Operating	352.3	5.7	20.4	378.4
Capital	19.0		3.0	22.0
Total	371.3	5.7	23.4	400.4

\$ Budget Change			
\$	2,237,600		
	N/A		
\$	2,237,600		

Full Time Equivalent – Includes full-time, part-time, and permanent positions. Calculated value based on the normal working hours of each position.

#### **Summary of Changes**

- Transfers:
  - 5 FTE positions in the Resource Plan and a 0.7 temp (intern) position.
- Operating: 20.4 FTE positions
  - Net 14 FTE positions to support the Provincial Road Transfer. Eliminated 10 Winter Seasonal positions (4 FTE).
  - 6.4 FTE positions to support parking services, address leadership span of control issues, support capital project planning / integration and to provide enhanced maintenance to Spring Garden Road.
- Capital: 3 FTE to support an increase in Active Transportation projects and major capital project delivery (volume & complexity). This FTE request relates
  to the current draft capital budget. Additional capital funding directed by Regional Council will require additional staff resources.

#### **SUMMARY OF CHANGES**

Change Description / Service Impact		Amount
Approved 2021/22 Budget	\$	92,385,600
Compensation Changes:		
New positions		2,087,100
Collective agreement increases, individual salary adjustments & compensation changes		240,900
Position conversions		125,500
Net decrease in overtime		(315,300)
Revenue Adjustments:		
Increase in sale of recyclables / marketable materials / bottle fund recovery		(1,300,000)
Net increase in parking revenue		(977,700)
Decrease in Solid Waste Diversion Credits		700,000
Decrease in Solid Waste tipping fees collected		180,000
Decrease in miscellaneous revenue		41,300
Other Budget Adjustments:		
Increase in State of Good Repair transferred from Capital		4,000,000
Increase in contracted services		3,197,100
Increase in costs related to Provincial Road Transfer		3,033,100
Increase in costs related to Operating Cost of Capital		728,900
Net decrease in materials, supplies, other goods and services		(169,200)
Increase in Sign Shop and insurance recoveries		(29,700)
Business Unit Transfers		
Transfer of Summary Offense Ticket Revenue to Fiscal Services		1,500,000
Transfer of LED Reserve contribution to Fiscal Services		(4,295,100)
Total Changes	\$	8,746,900
2022/23 Budget	\$	101,132,500

#### **OPTIONS UNDER BUDGET**

Options Description / Service Impact	One-time / On-going	2022/23 Amount	
Weekly Organics Collection	On-going	900,000	
Service Impact: Reduce to bi-weekly service	On-going	900,000	
Tip Fee Increase Commercial Compost	On-going	220,000	
Service Impact: Increase from \$75 to \$90	On-going	220,000	
Household Special Waste Program	On going	139,000	
Service Impact: Eliminate 6 events added in 21/22 - 17 to 11 events	On-going	138,000	
Fee Increase Commercial Recyclables On-going		95,000	
ervice Impact: Increase from \$30 to \$45			
Parking Ticket Fee Increase	On-going	300,000 - 450,000	
Service Impact: Increase from \$35 (\$30 if paid within 7 days) to \$45 (\$40 if paid within 7 days)	On-going		
Weekend Parking	On-going	150,000	
Service Impact: Charge for weekend parking	On-going	150,000	
Overnight Street Sweeping Enforcement	On-going	60,000	
Service Impact: Reduce service	On-going	00,000	
Winter Parking Ban Enforcement	On-going	30,000	
Service Impact: Reduce from 12 to 6 officers during events	On-going	30,000	
All Parking Violations except Paid Parking	Outstanding Paguast to Province	700,000 – 1,000,000	
Service Impact: Increased fines	Outstanding Request to Province	700,000 – 1,000,000	
Total Proposed Decreases / Revenue Increases		\$ 2,593,000 - 3,043,000	

#### **OPTIONS OVER BUDGET**

Options Description / Service Impact	One-time / On-going	2022/23 Amount	2023/24 Amount
New Sidewalks Municipal Roads (Capital)	On-going	200,000	7,500,000
Street Recapitalization Shortfall (Capital)*	On-going	TBD	8,000,000
Basic Crosswalks Upgrade Program	One-time	200,000	-
Proactive Vegetation Management Program	On-going	1,300,000	1,300,000
Road Safety Strategy (2024 – 2028) - Third party review / development	One-time	150,000	-
Photo Enforcement Project Lead	On-going	100,000	100,000
Parking initiatives to support Business Recovery (COVID)	One-time	TBD	-
Total Proposed Increases / Revenue Decreases		\$ 1,950,000	\$ 8,900,000

<sup>\*</sup>Assumes Regional Council ultimately approves an increase to the 4-year Street Recapitalization capital plan of \$9M annually leaving an estimated \$36M investment shortfall over the next 4 years.

#### FINANCIAL RISKS

Risk Details	One-time / On-going	2022/23 Amount
Otter Lake - Notice of Early Termination	On-going	550,000
Solid Waste Marketing Revenue	On-going	500,000
Parking Revenue	One-time	TBD
Contract Inflation	On-going	TBD
Supply Chain Issues	On-going	TBD
Road Transfer - Asset Conditions	One-time	TBD
Total Risk		\$ 1,050,000

