City of Pitt Meadows

2020 Utilities Financial Plan December 9, 2019



2020 Utilities Financial Plan

- Agenda
 - Purpose of Today's Presentation
 - Follow-up November 26th Workshop
 - Capital & Operating Budgets
 - Drainage
 - Sewer
 - Solid Waste
 - Water
 - Utilities Summary
 - Taxes & Utilities Combined
 - Next Steps
 - Opportunity for Questions, Comments & Public Input



Purpose of Today's Presentation

- To Provide
 - Context for Council budget deliberations
 - Information for decision making in the new year
- No decisions required



2020 Utilities Financial Plan

Drainage Capital & Operating Budget





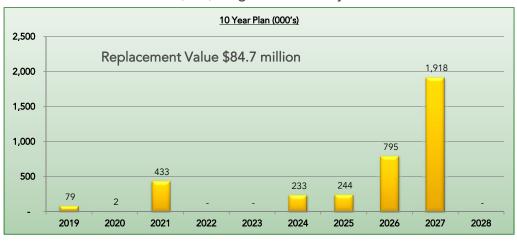
Drainage Capital Budget - Reserve

	9		
	Description	Amount	
What We are Saving (2020 incre	What We are Saving (2020 increase is \$40K); AMP Target \$1.4 million		
Interest Allocation – Yes (estimat	e)	4,000	
What We are Saving For:			
Significant Project – Culvert Repl	acements (aggregate total 2020-2024)	564,200	
Significant Project - Area 4 Pum	o Station Replacement \$8M, final year (2020)	730,000	
Significant Project – Trash Rack S	Systems (2023 & 2024)	1,400,000	
Significant Project – Kennedy Rd	Pump Station Replacement (2023-2024)	1,350,000	
Significant Project – Fenton Area	Pump Station Upgrade (2021)	350,000	
Significant Project – Baynes Pum	p Station Upgrade (2022)	507,400	
What We are Borrowing Internal	ly (Sewer Reserve '22,'23, Repay '25)	285,000	
Balance – Minimum 5-Year Plan ((2022)	0	
Balance – Maximum 5-Year Plan	(2021)	433,000	
Purpose – To provide annual fun	ds for the rehabilitation and replacement of d	rainage infrastructure	

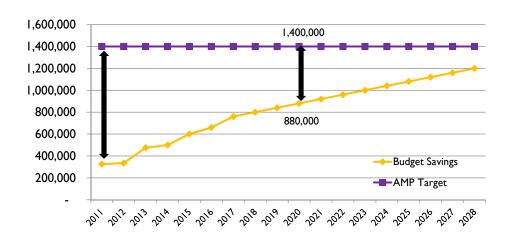
2020 Utilities Financial Plan

Drainage Capital Budget - Reserve

Planned 2020 Increase is \$40,000; Single / Multi Family / \$2



Drainage Capital Budget – Annual Reserve Savings



2020 Utilities Financial Plan

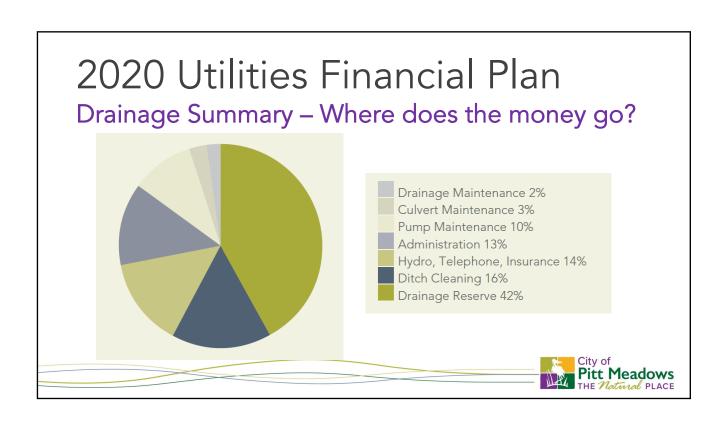
Drainage Operating Budget – Executive Summary

Description	Budget Total	SF Budget	SF Fee	MF Budget	MF Fee
2019 Budget	\$1,908,100	\$484,800	\$126	\$177,000	\$70
-Capital reserve savings	40,000	5,800	2	3,000	2
-Maple Ridge drainage levy – Area 3	(12,600)	(1,800)	(1)	(900)	0
-Administration support allocation	35,200	5,100	2	2,500	1
-Maint. (ditches, culverts, storm sewers)	53,300	7,700	2	3,900	1
-Hydro & Insurance	45,900	6,600	2	3,300	1
2020 Budget Drivers Total	\$161,800	\$23,300	\$7	\$11,700	\$4
2020 Budget	\$2,069,900	\$508,100	\$133	\$188,700	\$74

Based on 3,330 Single Family (SF) units = \$3,330 generated for every \$1 flat fee increase Based on 2,921 Multi Family (MF) units = \$2,921 generated for every \$1 flat fee increase

Drainage Operating Budget - Parcel Impact

Property Size	2019 Assessed Value	2019 Fee	2020 Fee	Increase
1 Acre	\$853,800	\$135.87	\$144.36	\$8.49
5.6 Acres	1,309,436	426.53	453.19	26.66
9.8 Acres	1,591,000	670.58	712.49	41.91
70.7 Acres	257,457	3,873.72	4,115.83	242.11



Sanitary Sewer - Capital & Operating Budget





2020 Utilities Financial Plan

Sanitary Sewer Capital Budget - Reserve

Description	Amount
What We are Saving (2020 increase is \$20K); AMP Targe	et \$575K \$ 468,000
Interest Allocation – Yes (estimate)	50,000
What We are Saving For:	
Significant Project – Sewer Pipe Rehab. ('20, '22, '24)	900,000
What We Are Loaning Internally:	
Drainage Reserve '22, '23; Repay '25	-285,000
Future Capital Reserve '19; Repay '20	-55,000
Lifecycle General Reserve '21; Repay '22	-21,000
Major Buildings Reserve '21; Repay '22, '23	-2,000,000
Vehicle Replacement Reserve '21, '22, '24; Repay '23, '2	5, '26 -415,000
Balance – Minimum 5-Year Plan (2021)	850,000
Balance – Maximum 5-Year Plan (2024)	3,500,000
Purpose – To provide annual funds for the rehabilitation	and replacement of sewer system infrastructure

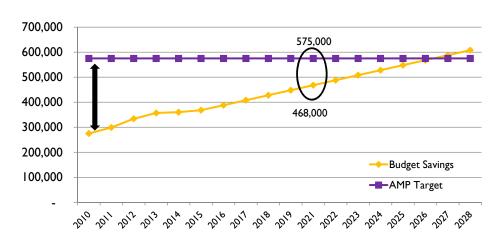
Sanitary Sewer Capital Budget - Reserve

Planned 2020 Increase is \$20,000; Single / Multi Family = \$1



2020 Utilities Financial Plan

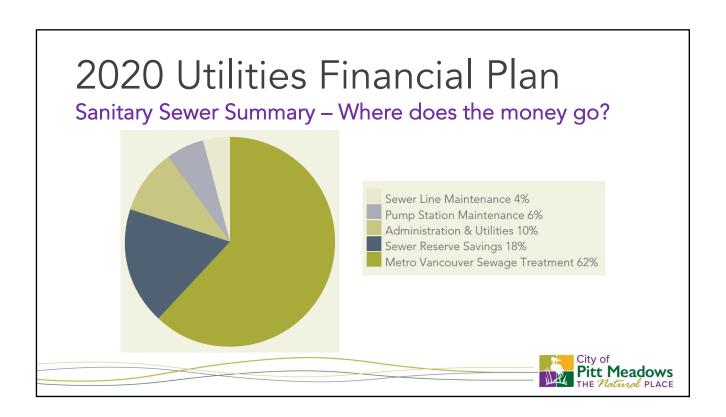
Sanitary Sewer Capital Budget – Annual Reserve Savings



Sanitary Sewer Operating Budget – Executive Summary

Description	Budget Total	SF/MF Budget	SF/MF Fee
2019 Budget	\$2,454,500	\$2,216,600	\$336
-Capital reserve savings	20,000	18,100	1
-Administration support allocation	11,900	10,700	1
-Maintenance (lift stations, lines)	27,400	24,700	3
-GVSⅅ treatment charge (\$1.6M total)	73,300	66,200	9
-Other	(400)	(400)	-1
2020 Budget Drivers Total	\$132,200	\$119,300	\$13
2020 Budget	\$2,586,700	\$2,335,900	\$349

Based on 6,693 Single Family (SF) & Multi Family (MF) units, = \$6,693 generated for every \$1 fee increase



Solid Waste - Operating Budget





2020 Utilities Financial Plan

Solid Waste - Operating Budget Unit Cost Breakdown

Property Type	Units	Waste Mgmt	City	Total Cost	2019	Change	2020
Single Family	3,701	103	100	203	196	7	203
Multi Family Curbside	854	103	100	203	196	7	203
Single Family – Mobile Home	162	52	67	119	114	5	119
Multi Family Curbside – No Garbage	244	52	67	119	114	5	119
Multi Family – Central Collection	2,099	9	11	20	20	0	20
Multi Family – Curbside Garbage & Central Collection Greenwaste	84	61	43	104	102	2	104
TOTAL	7,144						



2020 Utilities Financial Plan Solid Waste – Operating Budget Executive Summary Description Budget

Description	Budget
2019 Solid Waste Revenue Budget	\$ 978,700
Green Waste tipping fees (\$125 to \$128 rate change; 2,500 to 2,600 tonnage change)	20,300
Administration support allocation	4,400
Waste Management change in garbage & greenwaste collection rates	20,100
Other operating costs (advertising, miscellaneous)	(300)
Drivers Total	\$ 44,500
2020 Solid Waste Revenue Budget - Proposed	\$ 1,023,200



2020 Utilities Financial Plan

Solid Waste – Where does the money go?





Water - Capital & Operating Budget





2020 Utilities Financial Plan

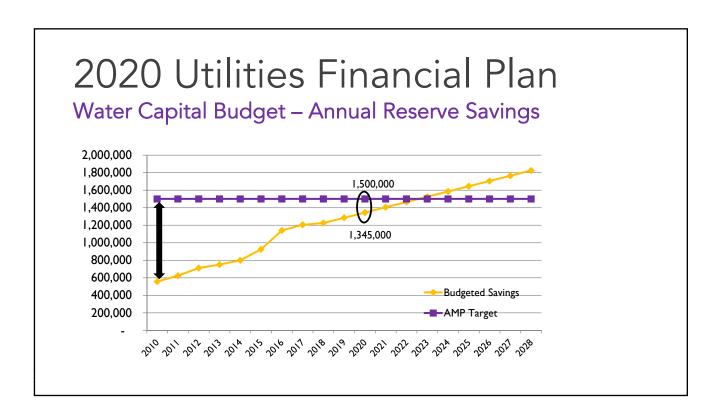
Water Capital Budget - Reserve

<u>water Capital Budget - Reserve</u>	
Description	Amount
What We are Saving (2020 increase is \$60K); AMP Target \$1.5M	\$ 1,345,,000
Interest Allocation – Yes (estimate)	30,000
What We are Saving For:	
Significant Project – AC Main Repl. 195B St, 119A Ave, 120B Ave (2023)	684,000
Significant Project – AC Main Repl. 115A Ave, 197A St, 197B St (2023)	596,400
Significant Project – AC Main Repl. 188A St, 188B St, 119B Ave (2022)	595,000
Significant Project – AC Main Repl. 189B St, 120B Ave, 190 St (2024)	580,000
Significant Project – CI Repl. Bonson Rd South & 117A (2023)	658,000
Significant Project – AC Main Repl. 192A St, 192B St, 116B Ave (2020)	430,000
What We are Lending Internally (Major Bldg. Reserve 2021, repaid 2022)	1,000,000
Balance – Minimum 5-Year Plan (2023)	0
Balance – Maximum 5-Year Plan (2024)	880,000
To provide annual funds to replace or refurbish waterworks system infrastructure included hydrants, stations, pumps and related equipment.	uding: piping,

Water Capital Budget - Reserve

Planned 2020 Increase is \$60,000; Single Family \$7 / Multi Family \$5





Water Operating Budget – Executive Summary

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Budget Total	SF Budget	SF Fee	MF Budget	MF Fee
\$3,048,000	\$2,172,500	\$476	\$732,100	\$362
56,100	31,300	7	10,400	5
22,900	14,000	3	4,200	2
119,100	67,700	15	24,300	12
29,300	17,900	4	7,000	3
300	200	0	100	0
\$227,700	\$131,100	\$29	\$46,000	\$22
\$3,275,700	\$2,303,600	\$505	\$778,100	\$384
	\$3,048,000 56,100 22,900 119,100 29,300 300 \$227,700	Budget Total SF Budget \$3,048,000 \$2,172,500 56,100 31,300 22,900 14,000 119,100 67,700 29,300 17,900 300 200 \$227,700 \$131,100	Budget Total SF Budget Fee SF Fee \$3,048,000 \$2,172,500 \$476 56,100 31,300 7 22,900 14,000 3 119,100 67,700 15 29,300 17,900 4 300 200 0 \$227,700 \$131,100 \$29	Budget Total SF Budget SF Fee MF Budget \$3,048,000 \$2,172,500 \$476 \$732,100 56,100 31,300 7 10,400 22,900 14,000 3 4,200 119,100 67,700 15 24,300 29,300 17,900 4 7,000 300 200 0 100 \$227,700 \$131,100 \$29 \$46,000

Based on 4,564 Single Family (SF), Townhouse & Condominium units = \$4,564 generated for every \$1 flat fee increase Based on 2,028 Multi Family (MF) Apartment units = \$2,028 generated for every \$1 flat fee increase

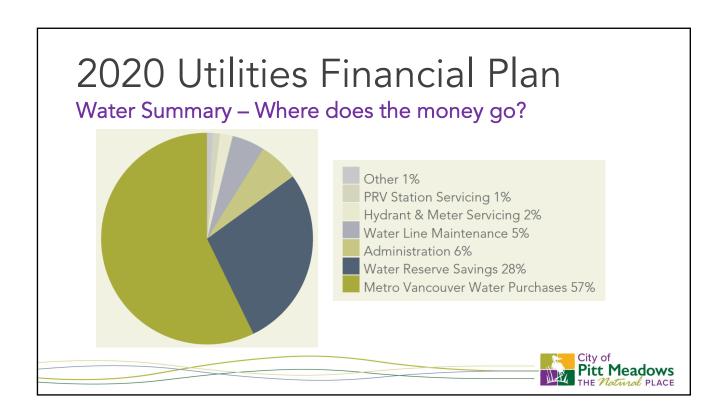
2020 Utilities Financial Plan

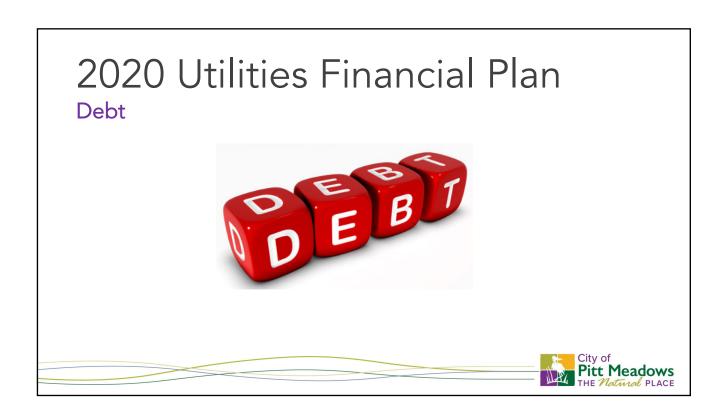
Water Operating Budget - Executive Summary

Description	2019		2020	
Metered	Rate \$	Cubic Mtrs	Rate \$	Budget \$
Consumption – Metro Vancouver (1)	0.7400	1,707,308	0.7800	1,331,700
Base Connection Charge (2) 731 meters	287.00		303.00	221,500
Metered Total		•		\$1,553,200

- (1) Metro Vancouver Rate Increase 5.4%
- (2) Base Connection Charge Increase 5.6%
- (3) Net Operating Expenses (excluding GVWD Water Purchases) divided by number of service connections = \$303

Average Annual Consumption per Capita per Statistics Canada website = 81 cubic metres 81 cubic metres x 3.19 persons x \$.78 per cubic metre + \$303 connection charge = \$505 equiyalent annual flat fee





Internal Borrowing

- Debt Management Policy C095
- Community Charter Section 189(4)
 - Provides for borrowing between Reserves and DCCs
 - Permitted if funds are not currently required by the Lending Reserve
 - Repay with Interest
- Flexibility in payback amounts and loan duration

Borrow / (Repay) Principal Amounts (000's)									
Borrowing Reserve	Lending Reserve	2019	2020	2021	2022	2023	2024	2025+	Total
Vehicle Repl.	Sewer	-	-	290	105	(60)	20	(355)	-
Future Capital	Sewer	55	(55)	-	-	-	-	-	-
Major Bldgs. Repl.	Future Capital	370	300	(130)	(380)	(160)	-	-	-
Major Bldgs. Repl.	Sewer	-	-	2,000	(1,000)	(1,000)	-	-	-
Major Bldgs. Repl.	Road Use Levies	-	-	1,000	-	(1,000)	-	-	-
Major Bldgs. Repl.	Water	-	-	1,000	(1,000)	-	-	-	-
Lifecycle General	Sewer	-	-	21	(21)	-	-	-	-
Drainage	Sewer	-	-	-	85	200	-	(285)	-

2020 Utilities Financial Plan

Utilities Summary





2020 Utilities Financial Plan Utilities Summary – Fees by Service Type Single Family Home

Service Type	2019	2020 Proposed	\$ Change
Sanitary Sewer Services	\$336	\$349	\$13
Water Services	476	505	29
Storm Drainage Services	47	50	3
Diking	20	20	0
Solid Waste Services	196	203	7
Subtotal User Fee Charges	1,075	1,127	52
Storm Drainage Services (mill rate)	79	83	4
Total Utility Charges	\$1,154	\$1,210	\$56

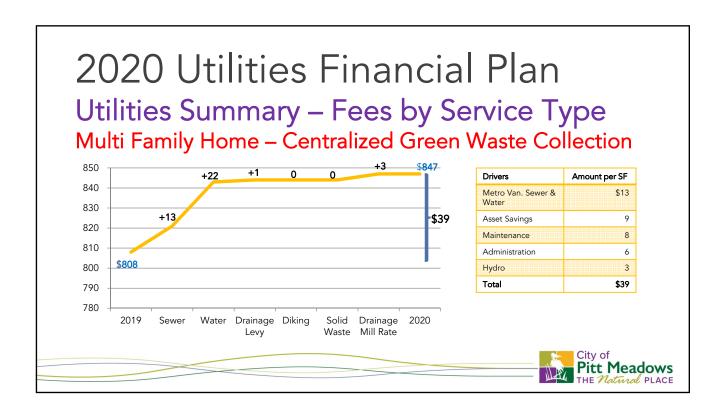


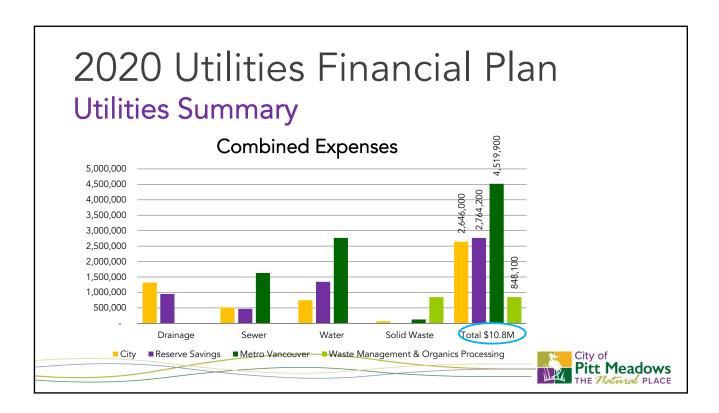
2020 Utilities Financial Plan Utilities Summary – Fees by Service Type Single Family Home 1,220 +4 \$1,210 Drivers Amount per SF 1,210 Metro Van. Sewer & 1,200 +29 Water 1,190 13 Asset Savings 1,180 \$56 Maintenance 11 1,170 1,160 Administration 8 1,150 Hydro 5 \$1,154 1,140 Total \$56 1,130 1,120 2019 Water Drainage Diking Solid Drainage Waste Mill Rate Levv Pitt Meadows

Utilities Summary – Fees by Service Type Multi Family Home – Centralized Green Waste Collection

2019	2020 Proposed	\$ Change
\$336	\$349	\$13
362	384	22
20	21	1
20	20	0
20	20	0
758	794	36
50	53	3
\$808	\$847	\$39
	\$336 362 20 20 20 758 50	2019 Proposed \$336 \$349 362 384 20 21 20 20 20 20 758 794 50 53





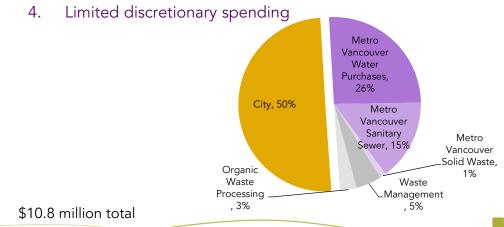


2020 Utilities Financial Plan Utilities Summary – Financial Challenges

- 1. Drainage Reserve
 - Asset replacement savings target reached (2033) later than Sewer (2026) and Water (2022)
 - Internal borrowing
- 2. Asset Management
 - Condition Assessments necessary to properly calculate reserve contribution levels
 - Sewer pipes, service connections 2015, lift stations 2017
 - Water assets 2020
 - Drainage assets dependent on grant funding
 - Infrastructure Funding Gap \$700K annually
 - Infrastructure Deficit \$52 million (\$17M Drainage, \$8M Sewer, \$27M Water)
- 3. Metro Vancouver Increases
 - 2020 6.4%; 2021 8.7%; 2022 10.3%; 2023 9.7%; 2024 8.7%
- 4. Flood Protection
 - Dike Master Plan
 - National Disaster Mitigation Plan
 - Federal funding



2020 Utilities Financial Plan Utilities Summary – Financial Challenges





2020 Utilities Financial Plan Utilities Summary – Financial Opportunities

- 1. Internal Borrowing
 - Permitted by legislation
 - Funds capital projects until the funding gap is eliminated
- 2. Asset Management Savings
 - Targets planned to be reached within 2 and 4 years for Water (2022) and Sewer (2026) Reserves
- 3. Debt Capacity
 - City's debt capacity is favourable
 - Debt allows the allocation of the capital cost to be spread over several generations
- 4. Leverage Technology
 - Provides opportunity for implementation of efficient processes
 - Improves public access to better information and provides self-service options



2020 Utilities Financial Plan Taxes and Utilities - Combined





2020 Utilities Financial Plan

Taxes and Utilities - Combined

Single Family Home

DESCRIPTION	2019 BUDGET	2020 PROPOSED	VARIANCE \$	USER FEE/ TAX IMPACT	
Department Submissions	\$958	\$997	\$39	1.88%	
Corporate Finance Reserve Savings	485	513	28	1.39%	
Subtotal	\$1,443	\$1,510	\$67	3.27%	
Library	95	96	1	0.07%	
Police - RCMP	494	507	13	0.64%	
Service Delivery Partners	\$589	\$603	\$14	0.71%	
Property Tax Subtotal	\$2,032	\$2,113	\$81	3.98%	
Storm Drainage (mill rate)	79	83	4	5.06%	
User Fees (Diking, Drainage, Solid Waste, Water, Sewer)	1,075	1,127	52	4.84%	
Total Property Charges	\$3,186	\$3,323	\$137	4.30%	

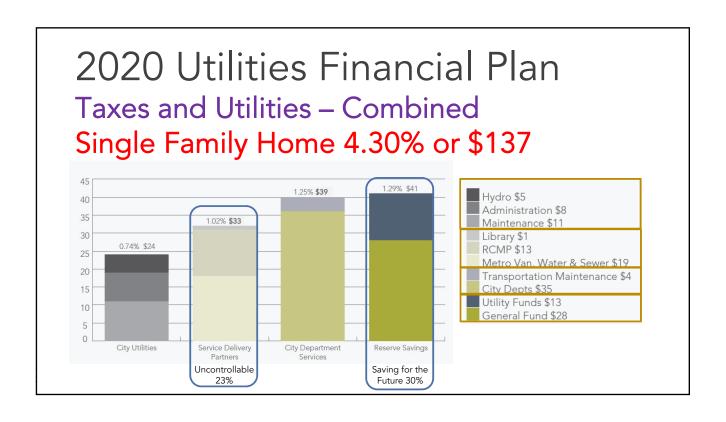
- Based on April, 2019 BC Assessment Roll Average Assessed Single Family = \$802,139 2020 Average assessed value will be known in 2019
- Approximately \$20 for every 1% property tax increase (e.g. 3.98% x \$20 = approx \$81)

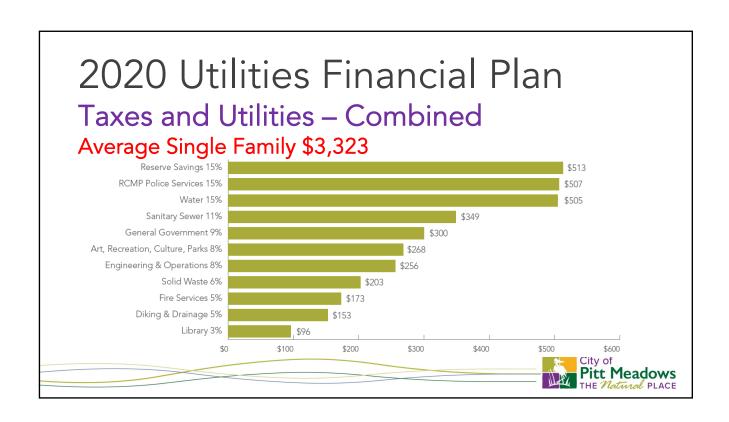
Taxes and Utilities - Combined

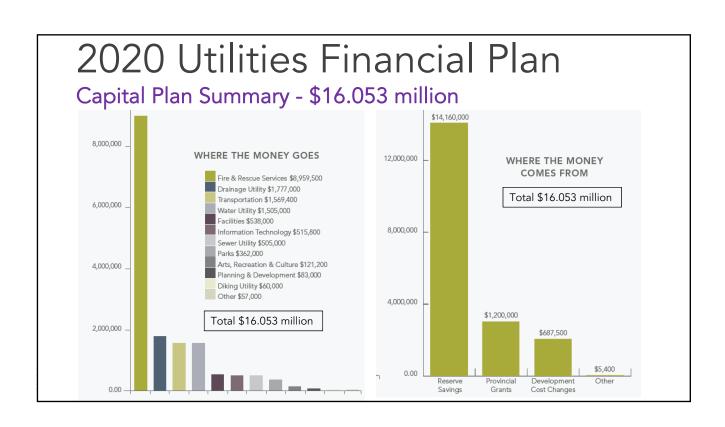
Multi Family Home Centralized Green Waste Collection

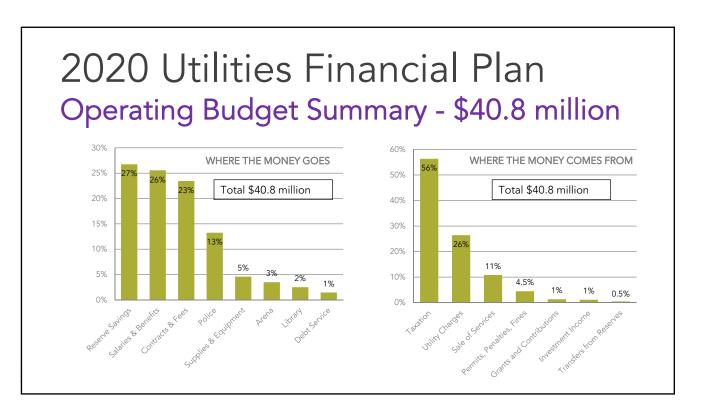
DESCRIPTION	2019 BUDGET	2020 PROPOSED	VARIANCE \$	USER FEE/ TAX IMPACT
Department Submissions	\$623	\$648	\$25	1.88%
Corporate Finance Reserve Savings	309	327	18	1.39%
Subtotal	\$932	975	\$43	3.27%
Library	60	61	1	0.07%
Police - RCMP	301	309	8	0.64%
Service Delivery Partners	\$361	\$370	\$9	0.71%
Property Tax Subtotal	\$1,293	\$1,345	\$52	3.98%
Storm Drainage (Mill Rate)	50	53	3	6.00%
User Fees (Diking, Drainage, Solid Waste, Water, Sewer	758	794	36	4.75%
Total Property Charges	\$2,101	\$2,192	\$91	4.33%

- Based on April, 2019 BC Assessment Roll Average Assessed Single Family = \$510,744
- 2020 Average assessed value will be known in 2019
- Approximately \$13 for every 1% property tax increase (e.g. 3.98% x \$13 = approx \$52)









2020 Utilities Financial Plan Next Steps

Date	Time	Topic
December 11th	9:00 am to 2:00 pm	Business Plan Presentations
January 15th	5:30 pm to 9:00 pm	Budget Deliberations
January 16th	5:30 pm to 9:00 pm	Budget Deliberations
February 4th	7:00pm (Council)	BC Assessment & Property Tax Calculation Presentations
March 31th	7:00pm (Council)	Financial Plan Bylaw/Utility Rates – Three Readings
April 7th	7:00pm (Council)	Financial Plan Bylaw/Utility Rates – Adoption
April 28th	7:00pm (Council)	Tax Rate Bylaw – Three Readings
May 5th	7:00pm (Council)	Tax Rate Bylaw – Adoption



