

Attachment #2

Water Utility Fund

Draft 2024 – 2028 Financial Plan

Capital Plan

2024 Service Enhancements

CORPORATION OF THE CITY OF NEW WESTMINSTER
WATER FUND BUDGET (DRAFT) ¹

	2023	2023	2024	\$ Chg	Budget Projections			
	Projections	Budget	Budget		2025	2026	2027	2028
REVENUE								
Utility Rates	\$ 16,750,244	\$ 17,261,000	\$ 17,754,000	\$ 493,000	\$ 18,819,000	\$ 19,947,000	\$ 21,143,000	\$ 22,413,000
Sale of Services	58,696	99,000	101,970	2,970	105,029	108,180	111,425	114,768
Capital Contributions and DCC's	1,032,100	885,000	357,250	(527,750)	721,321	-	-	-
Total Revenues	17,841,040	18,245,000	18,213,220	(31,780)	19,645,350	20,055,180	21,254,425	22,527,768
EXPENSES								
Salaries, Benefits and Training	594,092	858,019	939,883	81,864	968,079	997,122	1,027,035	1,057,846
Contracted Services	286,807	109,245	172,245	63,000	172,245	172,245	172,245	172,245
Supplies and Materials	181,285	179,137	209,137	30,000	209,137	209,137	209,137	209,137
Utility Purchases and Levies	7,556,905	7,466,596	8,079,094	612,498	8,810,884	9,409,974	9,771,457	10,091,541
Amortization	1,143,318	1,132,000	1,203,000	71,000	1,241,000	1,307,000	1,373,000	1,373,000
Total Expenses	9,762,407	9,744,997	10,603,359	858,362	11,401,345	12,095,478	12,552,874	12,903,769
INCREASE IN TOTAL EQUITY	8,078,633	8,500,003	7,609,861	(890,142)	8,244,005	7,959,702	8,701,551	9,623,999
Reconciliation to Financial Equity								
Amortization of Tangible Capital Assets	1,143,318	1,132,000	1,203,000	71,000	1,241,000	1,307,000	1,373,000	1,373,000
Capital Expenses	(4,738,640)	(12,113,564)	(12,286,824)	(173,260)	(6,108,900)	(6,313,900)	(6,658,900)	(8,028,900)
Transfer from/(to) Other Funds	220,000	220,000	220,000	-	220,000	220,000	220,000	220,000
Internal Charges	(1,217,732)	(1,527,812)	(1,572,861)	(45,049)	(1,600,754)	(1,626,348)	(1,650,759)	(1,650,759)
Internal Recoveries	264,170	329,108	349,018	19,910	370,323	393,119	417,511	417,511
CHANGE IN FINANCIAL EQUITY (Reserves)	3,749,749	(3,460,265)	(4,477,806)	(1,017,541)	2,365,674	1,939,573	2,402,403	1,954,851
Financial Equity , beginning of year	19,077,967	19,161,180	22,827,716	3,666,535	18,349,910	20,715,584	22,655,157	25,057,560
FINANCIAL EQUITY (Reserves), end of year	\$ 22,827,716	\$ 15,700,916	\$ 18,349,910	\$ 2,648,994	\$ 20,715,584	\$ 22,655,157	\$ 25,057,560	\$ 27,012,411
WATER FUND CAPITAL BUDGET								
CAPITAL EXPENSES								
Vehicles/Equipment	\$ 228,287	\$ 295,725	\$ 221,338	\$ (74,387)	\$ 90,000	\$ 65,000	\$ 710,000	440,000
Other Projects	188,265	509,589	491,324	(18,265)	180,000	110,000	110,000	350,000
Water Infrastructure	4,322,088	11,308,250	11,574,162	265,912	5,838,900	6,138,900	5,838,900	7,238,900
Total Capital Expenses	\$ 4,738,640	\$ 12,113,564	\$ 12,286,824	\$ 173,260	\$ 6,108,900	\$ 6,313,900	\$ 6,658,900	\$ 8,028,900
FUNDING SOURCES								
Reserve Funds	\$ 3,706,540	\$ 11,228,564	\$ 11,929,574	\$ 701,010	\$ 5,387,579	\$ 6,313,900	\$ 6,658,900	\$ 8,028,900
Development Cost Charges	1,032,100	885,000	357,250	(527,750)	721,321	-	-	-
Total Capital Funding	\$ 4,738,640	\$ 12,113,564	\$ 12,286,824	\$ 173,260	\$ 6,108,900	\$ 6,313,900	\$ 6,658,900	\$ 8,028,900

¹ Budget and projections adjusted to reflect current estimates

DRAFT 2024 - 2028 Water Fund Capital Plan

Item #	Projects	Project Description	2023-2026 Strategic Priority	7 Bold Steps for Climate Action	Routine Renewal or Replace / Improvement or New Add	2024 Multi- Year Budget Commitment	2024 Budget	2025 Forecast Spend	2026 Forecast Spend	2027 Forecast Spend	2028 Forecast Spend	Proposed 2024-2028 5-Year Plan
	Water Fund											
	Other											
	Water Other											
1	10357 Consulting Studies - Water	Scope/Outcome: System studies and pre-design for future water projects. Timeline: Planning Expected Completion: Ongoing	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	40,000	40,000	35,000	35,000	35,000	60,000	205,000
2	10633 Water - Asset Management	Scope/Outcome: Assessing data gap and integrating GIS data into AM & Financial Plans, developing and maintaining AM framework, policy, LOS, strategy, strategic and tactical plans, measurements and reports for Water assets, including maintenance management system and condition assessment. Timeline: Planning Expected Completion: Ongoing	05 Asset Management and Infrastructure	01 Carbon Free Corporation	01 Routine Asset Renewal or Replacement	35,775	35,775	50,000	10,000	10,000	25,000	130,775
3	10879 Annual Water Modeling Work	Scope/Outcome: Annual update the City water model by incorporating annual changes (network and land use) to the system. The computer model is also used for the master water servicing study. Timeline: Planning Expected Completion: Ongoing	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	50,000	50,000	25,000	25,000	25,000	25,000	150,000
4	12097 Water Conservation Program	Scope/Outcome: Water Conservation Program and implementation, including consumption data collection, enhanced education / outreach, audits, incentive programs. 7 Bold Steps: supporting climate resiliency which can be allocated under Bold Step 7 Timeline: Planning, Delivery Expected Completion: Ongoing	05 Asset Management and Infrastructure	07 Quality People Centered Public Real	01 Routine Asset Renewal or Replacement	113,975	113,975	60,000	30,000		30,000	233,975
5	12109 Mtce Management Development	Scope/Outcome: To develop maintenance management system for water utility. Timeline: Planning, Expected Completion: Ongoing	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	10,000	10,000	10,000	10,000	10,000	10,000	50,000
6	12181 Water Response Plan Update	Scope/Outcome: Update the current water emergency response plan to reflect current requirements and to meet Fraser Health requirements. Timeline: Planning Expected Completion: 2024	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	109,903	109,903					109,903
7	12379 Water Cross Connection Control Program	Scope/Outcome: Development of the Cross Connection Control Program Timeline: Delivery/Implementation Expected Completion: 2024	05 Asset Management and Infrastructure		02 Improvements or New Additions	120,000	120,000				300,000	420,000
8	12446 Water DCC Program Update	Scope/Outcome: DCC Program Update (Water Component) Timeline: Planning Expected Completion: 2027	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	11,671	11,671			30,000		41,671
	Total Water Other					491,324	491,324	180,000	110,000	110,000	450,000	1,341,324

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	Total Other					491,324	491,324	180,000	110,000	110,000	450,000	1,341,324
	Equipment											
	Water Equipment											
9	10208 Water Equipment and Furniture	Scope/Outcome: Annual allocation for operational replacement or upgrade of minor equipment within the water distribution system. Timeline: Implementation Expected Completion: Ongoing	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	25,000	25,000	25,000	25,000	25,000	25,000	125,000
10	10493 Water-Purchase Small Meters	Scope/Outcome: To replace small water meters that are aging or are obsolete. By changing out old and outdated meters, the usage is more accurately recorded. The upgrades also ensure compatibility with the new technology used in reading the meter counts. Timeline: Implementation Expected Completion: Ongoing	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	40,000	40,000	40,000	40,000	40,000	40,000	200,000
11	11046 PRV Replacement	Scope/Outcome: To complete the replacement of PRV at 16th St and London St. Timeline: Implementation Expected Completion: 2024	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	96,338	96,338					96,338
	Total Water Equipment					161,338	161,338	65,000	65,000	65,000	65,000	421,338
	Total Equipment					161,338	161,338	65,000	65,000	65,000	65,000	421,338
	Vehicles											
	Water Vehicles											
12	12471 rpl dump & crane Unit 685	Scope/Outcome: Replacement of Unit #685, a 2009 Dodge 1 ton dump truck with a knuckle crane unit. This vehicle will be 15yrs old and due for replacement in 2024. Timeline: 2024 Delivery Expected Completion: 2024 (procurement needs to start in 2023)	05 Asset Management and Infrastructure	01 Carbon Free Corporation	01 Routine Asset Renewal or Replacement							
10	A0491 Rpl Air Compressor Trailer Unit	Scope/Outcome: Replacement of Unit #672. This is a 2009 air compressor trailer. This will be over 15 years old and due for replacement in 2025. Timeline: Implimentation Expected Completion: 2025	06 Ongoing/Core Business/NA	01 Carbon Free Corporation	01 Routine Asset Renewal or Replacement			25,000				25,000
11	A0773 2017 Nissan Frontier 4WD Unit	Year Purchased: 2017 KM Driven: 54600 Purpose of Use: Water Sup. New Vehicle Type (EV or Gas): EV Order Place (in Year): 2027 Vehicle Deliver (in Year): 2027	06 Ongoing/Core Business/NA	01 Carbon Free Corporation	01 Routine Asset Renewal or Replacement					45,000	15,000	60,000
12	A0774 2015 Ford F59 ITB step Vans U	Year Purchased: 2015 KM Driven: 2215 Hours/60632 Purpose of Use: Water Maintenance New Vehicle Type (EV or Gas): EV; Order Place (in Year): 2027; Vehicle Deliver (in Year): 2027;	06 Ongoing/Core Business/NA	02 Car Light Community	01 Routine Asset Renewal or Replacement					200,000	120,000	320,000
13	A0775 2015 Ford F59 ITB step Vans U	Year Purchased: 2015 KM Driven: 3122 Hours/66168 Purpose of Use: Water Maintenance New Vehicle Type (EV or Gas): EV Order Place (in Year): 2027 Vehicle Deliver (in Year): 2027	06 Ongoing/Core Business/NA	02 Car Light Community	01 Routine Asset Renewal or Replacement					200,000	120,000	320,000

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14	New - Hybrid/electric passenger vehicle	Scope/Outcome: Vehicle requested to support existing and enhanced positions. Timeline: Implimentation Expected Completion: 2024	06 Ongoing/Core Business/NA	02 Car Light Community	Improvement or New Addition	60,000	60,000					60,000
15	A0776 2015 Ford F59 ITB step Vans U	Year Purchased: 2015 KM Driven: 3166 Hours/61723 Purpose of Use: Water Maintenance New Vehicle Type (EV or Gas): EV Order Place (in Year): 2027 Vehicle Deliver (in Year): 2027	06 Ongoing/Core Business/NA	01 Carbon Free Corporation	01 Routine Asset Renewal or Replacement					200,000	120,000	320,000
	Total Water Vehicles					60,000	60,000	25,000		645,000	375,000	1,105,000
	Total Vehicles					60,000	60,000	25,000		645,000	375,000	1,105,000
	Water Infrastructure											
	Hydrants											
	Total Hydrants					32,662	32,662	30,000	30,000	30,000	30,000	152,662
	Water System Additions											
13	11767 Watermain Replacement Progr	Scope/Outcome: Annual replacement program of aging water mains and to add new water mains to improve system efficiency, reliability level of fire protection and water quality enhancement. Asset management requires average of 3 km renewal annually (1.4% of system). Timeline: Implementation - 2023 Construction (including future year detail design) 2023 Expected Completion: - 7th avenue (16th st – 10th St) – 0.95km - Hamilton Street (16th st – 14th st) – 0.31km - Hamilton Street (12th st – 10th st) – 0.50km - 16th st (10th ave – Hamilton St) – 0.53km - 15th st(8th ave – Dublin Street Lane) – 0.25km - Lane between 16th st and 14th st (8th avenue – Hamilton Street) – 0.1km - Total of approximately 2.3 km planned for construction in 2023 (Class D estimate of approximately \$2200/m)	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	800,000	800,000					800,000
14	12094 Duncan St. Watermain	Scope/Outcome: Developer delivered DCC project. The Asset acquired is the Duncan Street Water main. This capital line item is to Reimburse Developer for extending Duncan St across other parcels. QW2 Timeline: Implementation Expected Completion: 2023	02 Homes and Housing Options		02 Improvements or New Additions	232,100	232,100					232,100
15	12096 Watermain Inspections	Scope/Outcome: To carry condition investigation (incl. CCTV inspection, flow testing, field excavation) on watermains to assist in establishing future years replacements Timeline: Implementation Expected Completion: Ongoing	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	130,500	130,500	30,000	30,000	30,000	30,000	250,500

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16	12461 West-End Waterm Rep Prog 23	<p>Scope/Outcome: Annual replacement program of aging water mains and to add new water mains to improve system efficiency, reliability level of fire protection and water quality enhancement. Asset management requires average of 3 km renewal annually (1.4% of system).</p> <p>Timeline: Implementation - 2023 Construction (including future year detail design)</p> <p>2023 Expected Completion: - 7th avenue (16th st – 10th St) – 0.95km - Hamilton Street (16th st – 14th st) – 0.31km - Hamilton Street (12th st – 10th st) – 0.50km - 16th st (10th ave – Hamilton St) – 0.53km - 15th st(8th ave – Dublin Street Lane) – 0.25km - Lane between 16th st and 14th st (8th avenue – Hamilton Street) – 0.1km</p> <p>- Total of approximately 2.3 km planned for construction in 2023 (Class D estimate of approximately \$2200/m)</p>	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement	13,100,000	10,100,000	3,000,000				13,100,000
17	##### Water Emergency Implementation		05 Asset Management and Infrastructure								250,000	
18	##### SCADA Network Upgrade		05 Asset Management and Infrastructure						300,000		600,000	
19	##### Waterm Rep Prog 25-28	<p>Scope/Outcome: Annual replacement program of aging water mains and to add new water mains to improve system efficiency, reliability level of fire protection and water quality enhancement. Asset management requires average of 3 km renewal annually (1.4% of system).</p>	05 Asset Management and Infrastructure		01 Routine Asset Renewal or Replacement			2,500,000	5,500,000	5,500,000	5,800,000	19,300,000
	Total Water System Additions					14,541,500	11,541,500	5,808,900	6,108,900	5,808,900	7,108,900	36,377,100
	Total Water Infrastructure					14,574,162	11,574,162	5,838,900	6,138,900	5,838,900	7,138,900	36,529,762
	Total Water Fund					15,286,824	12,286,824	6,108,900	6,313,900	6,658,900	8,028,900	39,397,424
	Total Water Fund					15,286,824	12,286,824	6,108,900	6,313,900	6,658,900	8,028,900	39,397,424

Dept	Division	Business Unit	Object Account	Description	Background and Explanation of Need	Strategic Priority	Employee Position Type	# of FTE Addition	Total 2024 Operating Enhancement Request	2024 Funding Source
ENG	Water & Sewer fund (50-50)	9510.8130 9410.8130	9510.8130 9410.8130	Co-Op Student Aux budget adjustment	Aux salary adjustment for Co-Op student in Utilities group (moved from general fund aux budget) We would like to formalize the Co-Op student having had great success with the 2023 program. This position will assist the Utilities Engineers in	Asset Management and Infrastructure	TFT	0.50	\$ 45,605	New / Incremental Revenue
ENG	Water	9410	8350	Subcontracts budget increase	Seeking enhancement to address regular overspends of approved budget, this is required for continued ability to address emergency repairs as well as increased industry charges.	Asset Management and Infrastructure			\$ 63,000	New / Incremental Revenue
ENG	Water	9410	8220	Increase in Direct Purchases to address growing SCADA maintenance needs	Increase in Direct Purchases is being requested in order to address growing SCADA maintenance needs. With an in-house SCADA Technician we require the added budget to maintain the end of life or aging SCADA system outside of complete through Capital budgets.	Asset Management and Infrastructure			\$ 30,000	New / Incremental Revenue
							Total	0.50	\$ 295,968	