

November 19, 2021

Becky Kent, B.A., Chair
Halifax Water
Halifax, NS

The regular meeting of the Halifax Water Board will be held virtually on Thursday, November 25, 2021 beginning at 9:00 a.m. Visit www.halifaxwater.ca to register to attend the public portion of the meeting.

AGENDA

In Camera reports

- 1C Approval of minutes of the In-Camera meetings held on Thursday, September 23, 2021 and Thursday, October 28, 2021 (5 minutes)
Motion: That the Halifax Water Board approve the In-Camera minutes of September 23, 2021 and October 28, 2021.
- 2C Business arising from minutes
a)
- 3C Contractual Matter (20 minutes)
Motion: That the Halifax Water Board convene to In Camera (private) to discuss the matter.
- 4C-I Operational Matter (10 minutes)
- 5C-I Legal Matter – Verbal (10 minutes)
- 6C-I Legal Matter – Verbal (15 minutes)

Regular reports

1. a) Ratification of In-Camera motions (2 minutes)
Motion: That the Halifax Water Board ratify the In-Camera Motions.
- b) Approval of the order of business and approval of additions and deletions (2 minutes)
Motion: That the Halifax Water Board approve the order of business and approve additions and deletions.
2. Approval of minutes of the Regular meetings held on Thursday, September 23, 2021 and Thursday, October 28, 2021 (2 minutes)
Motion: That the Halifax Water Board approve the minutes of the September 23, 2021 and October 28, 2021 Regular meetings.
3. Business arising from minutes
a)

Financial

- 4.1 Operating Results for the Seven Months Ended October 31, 2021 (10 minutes)
- 4.2 Proposed 2022 Halifax Regional Water Commission Employees' Pension Plan Budget (10 minutes)

Motion: That the Board approve the proposed 2022 budget for the Plan covering the period January 1, 2022 to December 31, 2022.

- 4.3 Halifax Regional Water Commission Employees' Pension Plan Proposed Actuarial Valuation Assumptions – January 1, 2022 (20 minutes)

Motion: That the Board approve the attached proposed actuarial valuation assumptions in principle, to be used in conducting the January 1, 2022 actuarial valuation of the Halifax Regional Water Commission Employees' Pension Plan (the "Plan").

Capital approvals

- 5 Capital Expenditures for the Seven Months Ended October 31, 2021 (5 minutes)

Other Business

- 6. Water Quality Master Planning – Moving Toward a Water Safety Plan – Presentation

Information Reports


- 1-I Operational Performance Information Report
- 2-I Halifax Water Compliance Statement – Quarterly Certification
- 3-I Halifax Regional Water Commission Employees' Pension Plan Financial Report, Third Quarter, 2021
- 4-I Halifax Water Supplemental Pension Plan Report




Digitally signed by Heidi
Schedler
Date: 2021.11.19
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Heidi Schedler
Secretary

TO: Becky Kent, B.A., Chair and Members of the Halifax Regional Water Commission Board

SUBMITTED BY:  Digitally signed by Louis de Montbrun
Date: 2021.11.19 11:17:58 -04'00'

Louis de Montbrun, CPA, CA
Director, Corporate Services/CFO

APPROVED:  Digitally signed by Cathie O'Toole
Date: 2021.11.19 10:29:25 -04'00'

Cathie O'Toole, MBA, FCPA, FCGA, ICD.D
General Manager

DATE: November 19, 2021

SUBJECT: **Operating Results for the 7 Months Ended October 31, 2021**

ORIGIN

Financial Information Reporting.

DISCUSSION

Attached are the operating results for the seven (7) months ended October 31, 2021, with comparative figures for October 31, 2020.

The following discussion of the operating results reflect direct operating costs by department and allocations among water, wastewater and stormwater for common costs shared across all the services provided by Halifax Water.

Statement of Financial Position (NSUARB)

Key indicators and balances from the Statement of Financial Position are provided in the following tables.

Table 1: Assets

October 31 (in thousands)	Notes	2021	2020	March 31 2021	From Prior Year \$ Change	% Change
Assets						
Current						
Cash and cash equivalents	A	\$ 82,330	\$ 66,569	\$ 48,228	\$ 15,761	23.7%
Receivables						
Customer charges and contractual	B	17,114	16,731	17,155	383	2.3%
Unbilled service revenues	C	21,647	19,627	18,246	2,020	10.3%
Halifax Regional Municipality	D	123	1,420	2,711	(1,297)	(91.3%)
Inventory		2,189	2,231	2,003	(42)	(1.9%)
Prepays	E	2,498	985	1,570	1,513	153.6%
		125,901	107,563	89,913	18,338	17.0%
Capital work in progress	F	54,704	46,791	30,908	7,913	16.9%
Utility plant in service	G	1,305,954	1,302,804	1,334,519	3,150	0.2%
Total assets		1,486,559	1,457,158	1,455,340	29,401	2.0%
Regulatory deferral account		2,509	2,701	2,620	(192)	(7.1%)
Total assets and regulatory deferral account		\$ 1,489,068	\$ 1,459,859	\$ 1,457,960	\$ 29,209	2.0%

Notes related to Table 1:

- A) *Cash and cash equivalents* consist of cash on hand and balances held within financial institutions reduced by outstanding cheques. They have increased \$15.8 million from the prior year due to new debt of \$20 million in May 2021, reduced by repayments of \$20.7 million, net receipts of regional development charges of \$21.7 million, and lower spend on capital. A significant portion of the cash balances held pertain to the reserves for Water and Wastewater Regional Development Charges – funds that are collected for a restricted purpose. The unencumbered balance of cash and cash equivalents is \$20.0 million.
- B) *Customer charges and contractual receivables* have increased \$0.4 million from the prior year. The change in receivables is driven by the timing of billing cycles, down \$0.3 million from prior year, offset by the accrual for funding on the Caledonia Road transmission project of \$1.0, and the decrease in the allowance for doubtful accounts related to a year end adjustment. The age of accounts receivables in the 120+ category have decreased \$0.6 million mainly due to a year end adjustment for accounts written off due to stormwater services reviews.

Customer charges and contractual					
	2021	2020			
	'000	'000	\$ Change	% Change	
Trade receivables	\$ 16,834	\$ 17,302	\$ (468)	(2.7%)	
Other receivables	3,731	3,050	681	22.3%	
Allowance for doubtful accounts	(3,451)	(3,621)	170	(4.7%)	
	\$ 17,114	\$ 16,731	\$ 383	2.3%	

Aging of Accounts Receivable (in thousands)					
	Current	31 to 60	61 to 120	120+	Grand Total
2021	9,269	1,287	1,172	5,106	16,834
2020	7,462	1,506	1,381	6,953	17,302
\$ Change	1,807	(219)	(209)	(1,847)	(468)
% Change	24.2%	(14.5%)	(15.1%)	(26.6%)	(2.7%)
Number of customers with receivables in each category*					
2021	28,076	5,861	6,816	10,825	51,578
2020	26,193	6,601	7,037	15,925	55,756
Change	1,883	(740)	(221)	(5,100)	(4,178)

* Customers may have receivable balances in multiple aging categories.

- C) *Unbilled service revenues* have increased \$2.0 million due to the timing of billing cycles and the increase in wastewater rates.
- D) *Halifax Regional Municipality (HRM) receivable* has decreased from the prior year by \$1.3 million. This relates to receipt of payment for holdbacks related to the Fall River Water servicing project and Lucasville Road cost sharing offset by the transfer of stormwater receivables to HRM for lien collection. The increase in the Regional Development Charge (RDC) is related to an increase of \$0.6 million in deferrals for charges greater than \$0.1 million offset by receipts of \$0.3 million.

HRM Receivables and Payables					
	2021		2020		
	'000		'000	\$ Change	% Change
Receivables	\$ 2,320	\$	4,276	\$ (1,956)	(45.7%)
RDC	1,805		1,496	309	20.7%
Payables	(4,002)		(4,352)	350	(8.0%)
	\$ 123	\$	1,420	\$ (1,297)	(91.3%)

- E) The increase in *prepaids* of \$1.5 million is a result of the annual insurance premiums invoice, which in previous years was invoiced monthly, and new software licenses including the new payroll system. Also contributing to the increase were annual invoices for Microsoft and SAP licenses.
- F) The \$7.9 million increase in *capital work in progress* relates to expenditures during the year of \$25.1 million. The top five projects remaining in capital work in progress at October 31, 2021 are detailed below:

Capital Work in Progress	
	Cumulative '000
Bedford South Reservoir	\$ 5,088
ERP Replacement Project	3,100
Romans and Federal Avenues Sewer Separation	2,708
Wastewater System Trenchless Rehabilitation	2,313
Pump Station Control Panel/Electrical Replacement	1,661
	14,870
<u>All other projects:</u>	
Water	19,147
Wastewater	16,473
Stormwater	4,214
	39,834
Capital work in progress	\$ 54,704

G) *Utility plant in service* assets total \$1.31 billion, an increase of \$3.2 million from the prior year. The increase is a result of additions at year-end of \$52.5 million offset by net disposals and adjustments of \$2.0 million, less depreciation expense of \$47.3 million.

Table 2: Liabilities and Equity

October 31 (in thousands)	Notes	2021	2020	March 31 2021	From Prior Year \$ Change	% Change
Liabilities						
Current						
Payables and accruals						
Trade	A	10,901	10,809	12,644	92	0.9%
Non-trade	B	4,924	4,606	6,192	318	6.9%
Interest on long term debt		2,705	2,749	2,065	(44)	(1.6%)
Contractor and customer deposits		2,243	2,387	2,115	(144)	(6.0%)
Current portion of long term debt	C	21,559	21,184	20,559	375	1.8%
Unearned revenue	D	5,644	5,203	561	441	8.5%
		47,976	46,938	44,136	1,038	2.2%
Long term debt	E	212,045	213,084	204,106	(1,039)	(0.5%)
Deferred contributions	F	66,122	49,808	55,699	16,314	32.8%
Total liabilities		326,143	309,830	303,941	16,313	5.3%
Equity						
Accumulated capital surplus		1,110,727	1,096,393	1,103,616	14,334	1.3%
Accumulated operating surplus		37,994	42,620	47,906	(4,626)	(10.9%)
Operating surplus used to fund capital		12,380	12,380	12,380	0	0.0%
Deficiency of revenues over expenditures		1,824	(1,364)	(9,883)	3,188	(233.7%)
Total equity		1,162,925	1,150,029	1,154,019	12,896	1.1%
Total liabilities and equity		\$ 1,489,068	\$ 1,459,859	\$ 1,457,960	\$ 29,209	2.0%

Notes related to Table 2:

A) *Trade payables and accruals* have remained consistent with prior year. Trade payables have increased \$1.9 million as a result of invoicing for accrued payables resulting in a decrease of \$1.3 million in accruals. The accrued wastewater rebate has decreased \$0.6

ITEM # 4.1
Halifax Water Board
November 25, 2021

million as those claiming rebates have been discharging more into the system, therefore claiming lower rebates in the current year.

Payables and Accruals				
	2021	2020		
	'000	'000	\$ Change	% Change
Trade payable	\$ 6,338	\$ 4,411	\$ 1,927	43.7%
Trade accrued payables	3,799	5,065	(1,266)	(25.0%)
Accrued wastewater rebate	764	1,333	(569)	(42.7%)
	\$ 10,901	\$ 10,809	\$ 92	0.9%

Aging of Accounts Payable (in thousands)					
	Current	31 to 60	61 to 120	120+	Grand Total
2021	5,003	595	448	292	6,338
2020	4,066	185	98	62	4,411
\$ Change	937	410	350	230	1,927
% Change	23.0%	221.6%	357.1%	371.0%	43.7%

Please see Attachment 2, Vendor Spend Report to October 31, 2021, for spend by vendor year to date, the top five are listed below:

Top Vendor Payments	
	Cumulative YTD
	'000
Halifax Regional Municipality	\$ 13,144
NS Power Inc.	5,105
The Northern Trust Company	4,078
N-Viro Systems Canada LP	2,401
Landmark Structures Co.	2,210
	26,938
All other vendors:	47,450
Total vendor payments	\$ 74,388

- B) *Non-trade payables and accruals* have increased from the prior year by \$0.3 million due to timing of payroll remittances.
- C) *Current portion of long-term debt* has increased \$0.4 million primarily as a result of acquiring new debt.
- D) *Unearned revenue* has increased \$0.4 million due to an increase in deferrals of the Regional Development Charge (RDC) for charges greater than \$0.1 million.
- E) *Long term debt* has decreased \$1.0 million. New debt of \$20.0 million was issued in May 2021. Long term debt repayments have been \$20.7 million.

Debt servicing ratio is a function of total interest and principal payments (including accrued amounts) plus the amortization of debt issue costs divided by total operating revenue per service. Debt servicing ratio by service as at October 31, 2021 is as follows:

Debt Servicing Ratio by Service		
	2021/22	2020/21
Water	13.44%	12.83%
Wastewater	21.30%	24.66%
Stormwater	26.60%	24.39%
Combined	18.63%	19.78%

The debt servicing ratio for each service, except wastewater, has increased from the prior year as a result of the issuance of new debt. The wastewater debt servicing ratio has decreased from the prior year due to higher revenues than the prior year as a result of an increase to the wastewater discharge rate.

The combined debt servicing ratio of 18.63% is below the maximum 35.0% ratio allowed under the blanket guarantee agreement with HRM.

Statement of Earnings (NSUARB)

Table 3: Summarized Statement of Earnings (NSUARB)

Summarized Statement of Earnings									
	Budget	Forecast	YTD Actual	PYTD Actual	From Prior Year		Budget to Forecast		
Notes	2021/22	2021/22	2021/22	2020/21	\$ Change	% Change	\$ Change	% Change	
	'000	'000	'000	'000					
Operating revenues	\$ 150,467	\$ 151,612	\$ 90,417	\$ 81,877	\$ 8,540	10.43%	\$ 1,145	0.76%	
Operating expenditures	125,379	124,728	68,173	64,207	3,966	6.18%	(651)	(0.52%)	
Earnings from operations before financial and other revenues and expenditures	25,088	26,884	22,244	17,670	4,574	25.89%	1,796	7.16%	
Financial and other revenues	722	714	383	472	(89)	(18.86%)	(8)	(1.11%)	
Financial and other expenditures	37,460	35,272	20,803	19,506	1,297	6.65%	(2,188)	(5.84%)	
Earnings (loss) for the year	A \$ (11,650)	\$ (7,674)	\$ 1,824	\$ (1,364)	\$ 3,188	(233.72%)	\$ 3,976	(34.13%)	

Notes related to Table 3:

- A) The *earnings* for the year to date are \$1.8 million, an increase of \$3.2 million over the prior year loss. The following is a discussion of factors influencing the change.

Table 4: Operating Revenues:

Operating Revenues									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Consumption revenue	B	\$ 96,518	\$ 96,595	\$ 58,409	\$ 51,258	\$ 7,151	13.95%	\$ 77	0.08%
Base charge revenue		34,003	34,017	19,699	19,652	47	0.24%	14	0.04%
Wastewater rebate	C	(1,480)	(1,055)	(575)	(639)	64	(10.02%)	425	(28.72%)
Metered sales total		129,041	129,557	77,533	70,271	7,262	10.33%	516	0.40%
Stormwater site generated charge	D	6,051	6,523	3,813	3,607	206	5.71%	472	7.80%
Stormwater right of way		3,835	3,835	2,237	2,237	-	0.00%	-	0.00%
Public fire protection	E	7,628	7,628	4,449	4,127	322	7.80%	-	0.00%
Private fire protection	E	1,312	1,344	827	522	305	58.43%	32	2.44%
Other operating revenue	F	2,600	2,725	1,558	1,113	445	39.98%	125	4.81%
Operating revenue total	A	\$ 150,467	\$ 151,612	\$ 90,417	\$ 81,877	\$ 8,540	10.43%	\$ 1,145	0.76%

Notes related to Table 4:

Operating revenues are presented below, broken down by type:

- A) *Operating revenues* have increased \$8.5 million as compared to the previous year.
- B) *Consumption* has increased 0.5% on a volumetric basis compared to the prior year. New customer connections are on track to exceed budget. The other factor influencing the increase in *consumption revenue* of \$7.2 million over the prior year is the rate increase for wastewater discharge effective April 1, 2021 from \$1.753 per cubic meter to \$2.073 per cubic meter; and the fact that last year's consumption was more impacted by COVID-19 with shut-downs and restrictions for a significant portion of the year.

Consumption by Customer Class (m3)				
	2021/22	2020/21	m3 Change	% Change
Commercial	3,494,390	3,401,342	93,047	2.7%
Industrial	1,216,786	1,115,323	101,464	9.1%
Institutional	2,246,386	2,064,221	182,165	8.8%
Multi-residential	4,491,965	4,297,397	194,569	4.5%
Residential	7,705,657	8,177,198	(471,541)	(5.8%)
	19,155,185	19,055,481	99,704	0.5%

- C) *Wastewater rebate* forecast has decreased \$0.4 million compared to budget as annual requests have been processed for lesser volumes of wastewater discharged into our system due to the customers operational requirements.
- D) *Stormwater site generated charge revenue* has been forecast to be \$0.5 million more than budget due to the impervious area satellite imagery update.
- E) *Public and private fire protection revenues* have increased by a combined \$0.6 million from the prior year due to an approved rate increase effective October 1, 2020.
- F) *Other operating revenue* has increased \$0.4 million over the prior year due to late payment and interest charges being waived in the prior year as a COVID-19 relief measure (\$0.2M), the introduction of a new meter reading charge to recoup the cost of manual meter reads for non-AMI meters effective October 1, 2020 (\$0.2M), and an increase in drawing review fees which are dependent upon the level of development activity.

Table 5: Operating expenditures:

Operating Expenditures									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Water supply and treatment	B	\$ 10,778	\$ 11,053	\$ 6,015	\$ 5,828	\$ 187	3.21%	\$ 275	
Water transmission and distribution	C	11,876	11,794	6,790	6,840	(50)	(0.73%)	(82)	
Wastewater collection	D	12,604	12,563	8,427	8,043	384	4.77%	(41)	
Stormwater collection	E	5,885	5,323	2,516	2,843	(327)	(11.50%)	(562)	
Wastewater treatment	F	22,071	21,510	12,095	11,410	685	6.00%	(561)	
Engineering and technology services	G	12,931	13,463	6,541	5,377	1,164	21.65%	532	
Regulatory services	H	4,472	4,529	2,554	2,340	214	9.15%	57	
Customer services	I	5,837	5,260	2,746	2,854	(108)	(3.78%)	(577)	
Corporate services	J	3,124	3,336	1,725	98	1,627	1660.20%	212	
Administration services	J	4,928	4,777	2,198	3,232	(1,034)	(31.99%)	(151)	
Depreciation and amortization	K	30,873	31,120	16,566	15,342	1,224	7.98%	247	
Total operating expenditures	A	\$ 125,379	\$ 124,728	\$ 68,173	\$ 64,207	\$ 3,966	6.18%	\$ (651)	

Notes related to Table 5:

- A) *Operating expenditures* of \$68.2 million are \$4.0 million higher than the prior year.
- B) *Water supply and treatment* has increased \$0.2 million from prior year due to increases in salaries and benefits (\$86k) relating to new positions, wage rate increases, and an increase in treatment chemicals (\$164k) mostly alum and phosphates relating to the increased dosage for the Lake Major clarifier project. Lead service line replacement costs also increased (\$189k) due to new program to pay for the private portion of service line replacements in the current year offset by a decrease in costs relating to lagoon cleaning in the prior year (\$97k) and equipment repairs (\$146k) relating to a pump failure in prior year. Water supply and treatment has forecasted an increase of \$0.3 million due to an increased demand for phosphate as the dose is planned to double to facilitate the Lake Major clarifier project in addition to the reallocation of one position from small systems.
- C) *Water transmission and distribution* is comparable to prior year. Salaries and benefits have decreased (\$120k) offset by increases in vehicle cost allocation (\$37k) which is dependent upon vehicle usage, and an increase in traffic control costs (\$114k) due to an increase in activity over the prior year resulting from COVID-19 delays. Other categories with offsetting costs include an increase in hired equipment costs (\$100k) and an increase in lead service line costs (\$65k) due to the cost of modelling where lead service lines exist offset by a decrease in vehicle and equipment costs.
- D) *Wastewater collection* has increased \$0.4 million from prior year due to increases in salaries and benefits (\$137k) based on the allocation of time between wastewater and stormwater services, increase in vehicle cost allocation (\$67k) which is dependent upon usage, and an increase in traffic control costs (\$128k) due to an increase in activity as compared to the prior year. Prior year was lower as a result of COVID-19 delays.
- E) *Stormwater collection* has decreased \$0.3 million from prior year due to decreases in salaries and benefits (\$218k) based on the allocation of time between wastewater and stormwater services, decrease in contract services (\$150k) relating mainly to emergency repairs for the Pier A combined sewer overflow (CSO) in the prior year, offset by an increase in traffic control costs (\$36k) due to an increased focus on activities that reduce staff contact during COVID-19, and an increase in vehicle cost allocation (\$113k) which is dependent upon usage. Stormwater collection is forecasted to decrease \$0.6 million based on reduced costs being experienced in expenditure categories such as contract services and traffic control, and associated reduction in wages and overtime.

- F) *Wastewater treatment* has increased \$0.7 million from prior year due to increases in salaries and benefits (\$217k) relating to new positions and wage rate increases, increases in chemicals (\$228k) mostly polymer due to price increases and sodium hypochlorite due to a dry summer requiring more use of the chemical to reduce odors, increase in consulting costs (\$128k) for Dalhousie research project due to reduced activity in prior year due to COVID-19, and an increase in biosolids treatment costs (\$294k) due in part to higher volumes being processed. The cost increases are offset by a decrease in tools and equipment purchases (\$170k) mainly relating to UV light purchases in the prior year. Wastewater treatment is forecasted to decrease \$0.6 million partially due to lower flows being experienced at the treatment plants, resulting in lower treatment costs and usage costs for chemicals such as alum.
- G) *Engineering and technology services* have increased \$1.2 million from prior year due to increases in salaries and benefits (\$324k) relating to new positions and wage rate increases, and an increase in consulting costs (\$376k) mainly relating to information technology (IT) initiatives as well as disaster recovery planning consulting. Increases are also attributed to new Microsoft Azure licenses (\$242k) which have been included in the revised forecast, and other software licenses for the new VIP payroll system. A new storage area network (\$72k) was also purchased in the current year. Engineering and technology services are forecasted to increase \$0.5 million due to the need for Microsoft Azure licenses, a higher subscription rate by customers for the customer portal than budgeted, and a net new hire in the information services department.
- H) *Regulatory Services* have increased \$0.2 million mainly due to increases in salaries and benefits (\$132k) relating to wage rate increases along with an increase in water quality testing (\$58k) due to additional required tests for algae and PFOS/PFOA (perfluorooctane sulfonate/perfluorooctanoic acid).
- I) *Corporate services, customer services and administration services* have increased \$0.5 million from the prior year mainly due to increases in salaries and benefits (\$464k) relating to new positions and wage rate increases. Other increases include, training and assessment costs (\$50k) due to more availability of courses compared to prior year when there were many COVID-19 cancellations, the fitness incentive program (\$34k) as more facilities have opened post COVID-19 closures, insurance policy premiums (\$112k), subscription costs for the Itron Analytics software (\$62k), and an increase in legal services (\$88k). These increases are offset by decreases in bad debt expense (\$41k), vehicle allocations (\$80k), and regulatory costs (\$275k) mainly due to the RDC and water and wastewater rate applications in the prior year. Corporate services are forecasted to increase \$0.2 million due to an updated estimate for insurance policy premiums. Customer services are forecasted to decrease by \$0.6 million, which is attributed to deferring implementation of the monthly customer billing project to the 2022/23, resulting in savings of approximately \$0.7 million. This decrease has been offset by increases in other expenditure categories, most notably subscription costs, which are forecasted to increase \$0.1 million and not previously budgeted.
- J) *Depreciation and amortization* have increased \$1.2 million as a result of additions to utility plant in service and intangibles. Depreciation and amortization are forecasted to increase \$0.2 million due to an updated estimate for total assets to be capitalized during the year.

Table 6: Operating Expenditures by Nature:

Operating Expenditures by Nature						
	Notes	2021/22 '000	2020/21 '000	\$ Change	% Change	
Salaries and benefits	A	\$ 25,348	\$ 24,425	\$ 923	3.64%	
Training		227	197	30	13.07%	
Contract services	B	7,374	6,673	702	9.51%	
Electricity		3,959	3,902	58	1.46%	
Operating supplies	C	6,796	6,312	484	7.13%	
Professional services	D	3,387	2,995	392	11.57%	
Chemicals	E	3,777	3,407	369	9.78%	
Depreciation on assets allocated to departments	F	738	954	(216)	(29.27%)	
Depreciation and amortization	F	16,566	15,342	1,224	7.39%	
		\$ 68,173	\$ 64,207	\$ 3,966	5.82%	

Notes related to Table 6:

Operating expenditures of \$68.2 million are \$4.0 million higher than the prior year.

Compared to the prior year, expenditure types with the largest changes in costs are:

- A) Salaries and benefits increase of \$0.9 million is due to wage rate increases and new positions, offset by several retirements.
- B) Contract services increase of \$0.7 million is due to an increase in traffic control services and hired equipment relating to an increase in activity post COVID-19 along with an increase in biosolids treatment due to higher volume being sent for processing at third-party facility.
- C) Operating supplies increase of \$0.5 million is due mainly to Engineering and technology services cost increases relating to software licenses, network costs, and equipment purchases.
- D) Professional services increase of \$0.4 million is due to higher consulting costs as discussed under the Notes related to Table 5.
- E) Chemicals increase of \$0.4 million is due mainly to price increases and greater usage of certain chemicals.
- F) Depreciation increase of \$1.0 million is due to additions to utility plant in service.

Table 7: Operating Results by Service:

Operating Results by Service								
	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
					\$ Change	% Change	\$ Change	% Change
Water	\$ (5,221)	\$ (3,925)	\$ 449	\$ 1,589	\$ (1,140)	(71.74%)	\$ 1,296	(24.82%)
Wastewater	(1,517)	(276)	2,038	(2,181)	4,219	(193.44%)	1,241	(81.81%)
Stormwater	(4,912)	(3,473)	(663)	(772)	109	(14.12%)	1,439	(29.30%)
Earnings (loss)	\$ (11,650)	\$ (7,674)	\$ 1,824	\$ (1,364)	\$ 3,188	(233.72%)	\$ 3,976	(34.13%)

The results in Table 7 are explained in more detail in Tables 8 to 10.

Table 8: Operating Results by Service – Water:

Operating Results by Service - Water									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Operating revenues	A	\$ 58,213	\$ 58,502	\$ 34,815	\$ 33,617	\$ 1,198	3.56%	\$ 289	0.50%
Operating expenditures	B	48,638	49,156	26,569	24,821	1,748	7.04%	518	1.07%
Earnings (loss) from operations		9,575	9,346	8,246	8,796	(550)	(6.25%)	(229)	(2.39%)
Financial and other revenues		495	512	296	329	(33)	(10.03%)	17	3.43%
Financial and other expenditures	C	15,291	13,783	8,093	7,536	557	7.39%	(1,508)	(9.86%)
(Loss) earnings for the year		\$ (5,221)	\$ (3,925)	\$ 449	\$ 1,589	(1,140)	(71.74%)	1,296	(24.82%)

Water services earnings has decreased from the prior year by \$1.1 million due to the following factors:

- A) *Operating revenues* increase of \$1.2 million is attributable to the following:
 - i. Increase in base charges and consumption as a result of new customers.
 - ii. Increase in fire protection revenues of \$0.6 million as a result of a rate increase effective October 1, 2020.
 - iii. Increase in late payment fees of \$0.1 million as prior year fees were waived for part of the year as a result of COVID-19 relief measures.
- B) Increase in *operating expenditures* of \$1.7 million as discussed previously including increases in salaries from wage rate increases and depreciation.
- C) Increase in *financial and other expenditures* of \$0.6 million due to higher debt servicing costs and the dividend/grant in lieu of taxes.

Table 9: Operating Results by Service – Wastewater:

Operating Results by Service - Wastewater									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Operating revenues	A	\$ 82,167	\$ 82,565	\$ 49,422	\$ 42,356	\$ 7,066	16.68%	\$ 398	0.48%
Operating expenditures	B	64,837	64,286	36,475	34,138	2,337	6.85%	(551)	(0.85%)
Earnings (loss) from operations		17,330	18,279	12,947	8,218	4,729	57.54%	949	5.48%
Financial and other revenues		196	187	77	120	(43)	(35.83%)	(9)	(4.59%)
Financial and other expenditures	C	19,043	18,742	10,986	10,519	467	4.44%	(301)	(1.58%)
Earnings (loss) for the year		\$ (1,517)	\$ (276)	\$ 2,038	\$ (2,181)	4,219	(193.44%)	1,241	(81.81%)

Wastewater services earnings of \$2.0 million have increased from the prior year by \$4.2 million due to the following factors:

- A) *Operating revenues* increase of \$7.1 million is attributable to the following:
 - i. Increase in the wastewater discharge rate from \$1.753 to \$2.073 effective April 1, 2021.
 - ii. Increase in late payment fees of \$90k as prior year fees were waived for part of the year as a result of COVID-19 relief measures.
 - iii. Increase in miscellaneous revenues of \$0.1 million mainly due to new meter reading fee allocated between water and wastewater services.
- B) Increase in *operating expenditures* of \$2.3 million as discussed previously including increases in salaries from wage rate increases and depreciation.
- C) Increase in *financial and other expenditures* of \$0.5 million due to higher debt servicing costs and the new dividend/grant in lieu of taxes on wastewater assets.

Table 10: Operating Results by Service – Stormwater:

Operating Results by Service - Stormwater									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Operating revenues	A	\$ 10,087	\$ 10,545	\$ 6,180	\$ 5,904	\$ 276	4.67%	\$ 458	4.54%
Operating expenditures	B	11,904	11,286	5,129	5,248	(119)	(2.27%)	(618)	(5.19%)
Earnings (loss) from operations		(1,817)	(741)	1,051	656	395	60.21%	1,076	(59.22%)
Financial and other revenues		31	15	10	23	(13)	(56.52%)	(16)	(51.61%)
Financial and other expenditures	C	3,126	2,747	1,724	1,451	273	18.81%	(379)	(12.12%)
Loss for the year		\$ (4,912)	\$ (3,473)	\$ (663)	\$ (772)	109	(14.12%)	1,439	(29.30%)

Stormwater services loss of \$0.7 million has decreased from the prior year by \$0.1 million due to the following factors:

- A) Increase of \$0.2 million in site generated revenue due to satellite imagery update and an increase in late payment fees of \$51k as prior year fees were waived for part of the year as a result of COVID-19 relief measures.
- B) Decrease in *operating expenditures* of \$0.1 million mainly due to decreases in salaries and benefits as resources are allocated between wastewater and stormwater collection offset by an increase in depreciation.
- C) Increase in *financial and other expenditures* of \$0.3 million due to higher debt servicing costs and the new dividend/grant in lieu of taxes on stormwater assets.

Table 11: Financial and other revenues:

Financial and other revenues									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Interest	A	\$ 173	\$ 135	\$ 95	\$ 149	(54)	(36.24%)	(38)	(28.15%)
Other	B	549	579	288	323	(35)	(10.84%)	30	5.46%
Total financial and other revenue		\$ 722	\$ 714	\$ 383	\$ 472	(89)	(18.86%)	(8)	(1.11%)

Notes related to Table 11:

- A) *Interest* is lower than the prior year due to a decrease in interest rates.
- B) *Other revenues* include various un-regulated activities such as tower lease revenues, energy generation revenues, consulting activities and contracted service revenues.

Table 12: Financial and other expenditures:

Financial and other expenditures									
	Notes	Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
						\$ Change	% Change	\$ Change	% Change
Interest on long term debt	B	\$ 7,603	\$ 6,824	\$ 4,158	\$ 4,229	(71)	(1.68%)	(779)	(11.42%)
Repayment on long term debt	B	22,716	21,559	12,558	11,845	713	6.02%	(1,157)	(5.09%)
Amortization of debt discount	B	258	229	133	122	11	9.02%	(29)	(11.24%)
Dividend/grant in lieu of taxes	C	6,837	6,626	3,866	3,282	584	17.79%	(211)	(3.09%)
Other		46	34	88	28	60	214.29%	(12)	(26.09%)
Total financial and other expenditures	A	\$ 37,460	\$ 35,272	\$ 20,803	\$ 19,506	\$ 1,297	6.65%	\$ (2,188)	(5.84%)

Notes related to Table 12:

- A) *Financial and other expenditures* have increased \$1.3 million over the prior year mainly due to an increase in *long term debt payments* due to the acquisition of new debt and an increase in the *dividend/grant in lieu of taxes* due to additions to utility plant in service and a dividend of 0.25% on wastewater and stormwater rate based assets, effective October 1, 2020.

- B) *Long term debt appropriation expenditures (interest, repayment, and amortization)* are forecast to decrease \$2.0 million due to the budgeted debt issuance for this fiscal year being higher than actual debt acquired.
- C) *Dividend/grant in lieu of taxes* has been forecast to decrease \$0.2 million due to lower capital additions as at March 31, 2021 which drives the basis for the dividend.

Table 13: Debt Servicing by Service:

Debt Servicing by Service					
	Notes	2021/22 '000	2020/21 '000	\$ Change	% Change
Water Services					
Interest on long term debt		\$ 1,243	\$ 1,182	\$ 61	5.2%
Repayment on long term debt		3,388	3,089	299	9.7%
Amortization of debt discount		47	42	5	11.9%
Total debt servicing cost - water services	A	\$ 4,678	\$ 4,313	\$ 365	8.5%
Wastewater Services					
Interest on long term debt		\$ 2,485	\$ 2,647	\$ (162)	(6.1%)
Repayment on long term debt		7,969	7,726	243	3.1%
Amortization of debt discount		73	70	3	4.3%
Total debt servicing cost - wastewater services	B	\$ 10,527	\$ 10,443	\$ 84	0.8%
Stormwater Services					
Interest on long term debt		\$ 430	\$ 400	\$ 30	7.5%
Repayment on long term debt		1,201	1,030	171	16.6%
Amortization of debt discount		13	10	3	30.0%
Total debt servicing cost - stormwater services	C	\$ 1,644	\$ 1,440	\$ 204	14.2%

Notes related to Table 13:

- A) *Water debt servicing costs* of \$4.7 million have increased \$0.4 million from the prior year as a result of \$22.0 million in new debt.
- B) *Wastewater debt servicing costs* of \$10.5 million have increased \$0.1 million from the prior year as a result of \$13.4 million in new debt.
- C) *Stormwater debt servicing costs* of \$1.6 million have increased \$0.2 million from the prior year as a result of \$9.6 million in new debt.

Table 14: Operating Results by Activity:

Operating Results by Activity									
		Budget 2021/22 '000	Forecast 2021/22 '000	YTD 2021/22 '000	PYTD 2020/21 '000	From Prior Year		Budget to Forecast	
Notes						\$ Change	% Change	\$ Change	% Change
Regulated activities	A	\$ (12,175)	\$ (8,286)	\$ 1,585	\$ (1,863)	\$ 3,448	(185.08%)	\$ 3,889	(31.94%)
Unregulated activities	B	525	612	239	499	(260)	(52.10%)	87	16.57%
Earnings (loss)		\$ (11,650)	\$ (7,674)	\$ 1,824	\$ (1,364)	\$ 3,188	(233.72%)	\$ 3,976	(34.13%)

Notes related to Table 14:

- A) *Regulated activities* earnings have increased from the prior year loss by \$3.4 million due to the factors as previously explained.
- B) *Unregulated activities* earnings of \$0.2 million have decreased \$0.3 million from the prior year due to an increase in operating costs for the leachate and dewatering facilities.

Results under International Financial Reporting Standards (IFRS) as compared to NSUARB Handbook

As a rate regulated utility, the Accounting Standards Board (AcSB) requires Halifax Water, to report financial results using IFRS. The NSUARB requires Halifax Water to report in accordance with the NSUARB Handbook. Table 15 below reconciles the results between IFRS and the NSUARB Handbook:

Table 15: Reconciliation IFRS to NSUARB:

Reconcile IFRS to NSUARB			
	Notes	2021/22 '000	2020/21 '000
IFRS comprehensive earnings		\$ 6,066	\$ 3,081
Add non-cash pension expense	A	8,034	5,953
Subtract debt principal payments	B	(12,558)	(11,845)
Add depreciation expense on contributed assets	C	10,808	10,962
Subtract amortization of contributed capital	C	(10,808)	(10,962)
Add various depreciation adjustments	D	282	1,447
NSUARB earnings (loss)		\$ 1,824	\$ (1,364)

Notes related to Table 15:

Operating revenues are the same under both IFRS and the NSUARB Handbook.

The main differences relate to reporting requirements surrounding the recognition of various expenditures as follows:

- A) *Non-cash pension expense* represents the accrual of unpaid contributions to the pension plan and is not considered an expense for NSUARB Handbook reporting purposes.
- B) The *principal payments* on long term debt are recognized as an expense for NSUARB Handbook reporting purposes but are not an expense under IFRS.
- C) *Depreciation expense on contributed assets* is not an expense for NSUARB Handbook purposes, however, it is offset by the removal of the amortization of contributed capital. IFRS requires *contributed capital* to be treated as a long term liability and amortized, resulting in higher long term liabilities and lower equity on the statement of financial position.
- D) The *various depreciation adjustments* include the add back of gains on the disposal of utility plant in service and IFRS requires componentization of assets and shorter useful lives resulting in higher depreciation than under NSUARB Handbook reporting.

Table 16: Statement of Earnings and Comprehensive Earnings (IFRS):

Summarized Comprehensive Earnings					
	Notes	2021/22 '000	2020/21 '000	\$ Change	% Change
Operating revenues	A	\$ 90,417	\$ 81,877	\$ 8,540	10.4%
Operating expenditures	B	88,004	82,380	5,624	6.8%
Earnings from operations before financial and other revenues and expenditures		2,413	(503)	2,916	(579.7%)
Financial and other revenues		11,191	11,435	(244)	(2.1%)
Financial and other expenditures	C	7,346	7,659	(313)	(4.1%)
Total comprehensive earnings for the year		\$ 6,066	\$ 3,081	\$ 2,985	96.9%

Notes related to Table 16:


Key indicators and balances from the Statement of Earnings and Comprehensive Earnings are as follows:

- A) *Operating revenues* of \$90.4 million are \$8.5 million higher than the prior year. Details have been discussed in preceding pages.
- B) *Operating expenditures* of \$88.0 million are \$5.6 million higher than the prior year. This is primarily the result of the following factors:
 - a. Increase in depreciation and amortization expense of \$0.8 million as a result of additions to utility plant in service.
 - b. Increase in accrued pension expense of \$2.1 million as a result of the actuarial extrapolation at year end, resulting in a higher estimate for this current fiscal year.
- C) *Financial and other expenditures* have decreased \$0.3 million from the prior year. This is a result of gains on sale of both land and vehicle assets.

Attachments

Attachment 1: Operating Results for October 31, 2021

Attachment 2: Vendor Spend Report to October 31, 2021

Report prepared by:	Alicia Scallion  <small>Digitally signed by Alicia Scallion Date: 2021.11.19 09:41:07 -04'00'</small>
	Alicia Scallion, CPA, CA Manager, Accounting (902) 497-9785

HALIFAX WATER
UNAUDITED STATEMENT OF FINANCIAL POSITION - IFRS
OCTOBER 31, 2021 (in thousands)

October 31 (in thousands)	2021	2020	March 31 2021	From Prior Year \$ Change	% Change
Assets					
Current					
Cash and cash equivalents	\$ 82,330	\$ 66,569	\$ 48,228	\$ 15,761	23.7%
Receivables					
Customers charges and contractual	17,114	16,731	17,155	383	2.3%
Unbilled service revenues	21,647	19,627	18,246	2,020	10.3%
Halifax Regional Municipality	123	1,420	2,711	(1,297)	(91.3%)
Inventory	2,189	2,231	2,003	(42)	(1.9%)
Prepays	2,498	985	1,570	1,513	153.6%
	<u>125,901</u>	<u>107,563</u>	<u>89,913</u>	<u>18,338</u>	<u>17.0%</u>
Intangible assets					
Capital work in progress	19,355	17,926	20,588	1,429	8.0%
Utility plant in service	54,704	46,791	30,908	7,913	16.9%
	<u>1,251,583</u>	<u>1,252,691</u>	<u>1,280,283</u>	<u>(1,108)</u>	<u>(0.1%)</u>
Total assets	<u>1,451,543</u>	<u>1,424,971</u>	<u>1,421,692</u>	<u>26,572</u>	<u>1.9%</u>
Regulatory deferral account	2,509	2,701	2,620	(192)	(7.1%)
Total assets and regulatory deferral account	<u>\$ 1,454,052</u>	<u>\$ 1,427,672</u>	<u>\$ 1,424,312</u>	<u>\$ 26,380</u>	<u>1.8%</u>
Liabilities					
Current					
Payables and accruals					
Trade	10,901	10,809	12,644	92	0.9%
Non-trade	4,924	4,606	6,192	318	6.9%
Interest on long term debt	2,705	2,749	2,065	(44)	(1.6%)
Contractor and customer deposits	2,243	2,387	2,115	(144)	(6.0%)
Current portion of deferred contributed capital	14,580	14,488	14,580	92	0.6%
Current portion of long term debt	21,559	21,184	20,559	375	1.8%
Unearned revenue	5,644	5,203	561	441	8.5%
	<u>62,556</u>	<u>61,426</u>	<u>58,716</u>	<u>1,130</u>	<u>1.8%</u>
Deferred contributed capital					
Long term debt	887,911	876,076	883,916	11,835	1.4%
Employee benefit obligation	212,045	213,084	204,106	(1,039)	(0.5%)
Total liabilities	<u>81,814</u>	<u>69,306</u>	<u>73,796</u>	<u>12,508</u>	<u>18.0%</u>
	<u>1,244,326</u>	<u>1,219,892</u>	<u>1,220,534</u>	<u>24,434</u>	<u>2.0%</u>
Equity					
Accumulated other comprehensive loss	(29,682)	(26,452)	(29,682)	(3,230)	12.2%
Accumulated surplus	239,408	234,232	233,460	5,176	2.2%
Total equity	<u>209,726</u>	<u>207,780</u>	<u>203,778</u>	<u>1,946</u>	<u>0.9%</u>
Total liabilities and equity	<u>\$ 1,454,052</u>	<u>\$ 1,427,672</u>	<u>\$ 1,424,312</u>	<u>\$ 26,380</u>	<u>1.8%</u>

HALIFAX WATER
UNAUDITED STATEMENT OF EARNINGS AND COMPREHENSIVE EARNINGS - ALL SERVICES - IFRS
APRIL 1, 2021 - OCTOBER 31, 2021 (7 MONTHS)
ACTUAL YEAR TO DATE COMPLETE: 58.33%

	ACTUAL		APR 1/20	ACTUAL	
	THIS YEAR	YEAR TO DATE	MAR 31/21	YEAR TO DATE	
	'000	LAST YEAR	BUDGET	as % of	
		'000	'000	BUDGET	From Prior Year
					\$ Change
					% Change
Operating revenues					
Water	\$ 28,943	\$ 28,589	\$ 48,423	59.77%	\$ 354 1.24%
Wastewater	48,590	41,682	80,618	60.27%	6,908 16.57%
Stormwater	6,050	5,844	9,886	61.20%	206 3.52%
Public fire protection	4,449	4,127	7,628	58.32%	322 7.80%
Private fire protection	827	522	1,312	63.03%	305 58.43%
Other operating revenue	1,558	1,113	2,600	59.92%	445 39.98%
	90,417	81,877	150,467	60.09%	8,540 10.43%
Operating expenditures					
Water supply and treatment	6,015	5,828	10,778	55.81%	187 3.21%
Water transmission and distribution	6,790	6,840	11,876	57.17%	(50) (0.73%)
Wastewater collection	8,427	8,043	12,604	66.86%	384 4.77%
Stormwater collection	2,516	2,843	5,885	42.75%	(327) (11.50%)
Wastewater treatment	12,095	11,410	22,071	54.80%	685 6.00%
Engineering and technology services	6,541	5,377	12,931	50.58%	1,164 21.65%
Regulatory services	2,554	2,340	4,472	57.11%	214 9.15%
Customer services	2,746	2,854	5,837	47.04%	(108) (3.78%)
Corporate services	1,725	98	3,124	55.22%	1,627 1660.20%
Administration services	2,198	3,232	4,928	44.60%	(1,034) (31.99%)
Pension services	8,034	5,953	12,049	66.68%	2,081 34.96%
Depreciation and amortization	28,555	27,754	44,837	63.69%	801 2.89%
	88,196	82,572	151,392	58.26%	5,624 6.81%
Earnings (loss) from operations before financial and other revenues and expenditures	2,221	(695)	(925)	(240.11%)	2,916 (419.57%)
Financial and other revenues					
Interest	95	149	173	54.91%	(54) (36.24%)
Amortization of contributed capital	10,808	10,962	13,964	77.40%	(154) (1.40%)
Other	288	324	549	52.46%	(36) (11.11%)
	11,191	11,435	14,686	76.20%	(244) (2.13%)
Financial and other expenditures					
Interest on long term debt	4,158	4,229	7,603	54.69%	(71) (1.68%)
Amortization of debt discount	133	122	258	51.55%	11 9.02%
Dividend/grant in lieu of taxes	3,866	3,282	6,837	56.55%	584 17.79%
Other	(811)	26	46	(1763.04%)	(837) (3219.23%)
	7,346	7,659	14,744	49.82%	(313) (4.09%)
Total comprehensive earnings (loss) for the year	\$ 6,066	\$ 3,081	\$ (983)	(617.09%)	\$ 2,985 96.88%

HALIFAX WATER
UNAUDITED STATEMENT OF FINANCIAL POSITION - NSUARB
OCTOBER 31, 2021 (in thousands)

October 31 (in thousands)	2021	2020	March 31 2021	From Prior Year \$ Change	% Change
Assets					
Current					
Cash and cash equivalents	\$ 82,330	\$ 66,569	\$ 48,228	\$ 15,761	23.7%
Receivables					
Customer charges and contractual	17,114	16,731	17,155	383	2.3%
Unbilled service revenues	21,647	19,627	18,246	2,020	10.3%
Halifax Regional Municipality	123	1,420	2,711	(1,297)	(91.3%)
Inventory	2,189	2,231	2,003	(42)	(1.9%)
Prepays	2,498	985	1,570	1,513	153.6%
	125,901	107,563	89,913	18,338	17.0%
Capital work in progress	54,704	46,791	30,908	7,913	16.9%
Utility plant in service	1,305,954	1,302,804	1,334,519	3,150	0.2%
Total assets	1,486,559	1,457,158	1,455,340	29,401	2.0%
Regulatory deferral account	2,509	2,701	2,620	(192)	(7.1%)
Total assets and regulatory deferral account	\$ 1,489,068	\$ 1,459,859	\$ 1,457,960	\$ 29,209	2.0%
Liabilities					
Current					
Payables and accruals					
Trade	10,901	10,809	12,644	92	0.9%
Non-trade	4,924	4,606	6,192	318	6.9%
Interest on long term debt	2,705	2,749	2,065	(44)	(1.6%)
Contractor and customer deposits	2,243	2,387	2,115	(144)	(6.0%)
Current portion of long term debt	21,559	21,184	20,559	375	1.8%
Unearned revenue	5,644	5,203	561	441	8.5%
	47,976	46,938	44,136	1,038	2.2%
Long term debt	212,045	213,084	204,106	(1,039)	(0.5%)
Deferred contributions	66,122	49,808	55,699	16,314	32.8%
Total liabilities	326,143	309,830	303,941	16,313	5.3%
Equity					
Accumulated capital surplus	1,110,727	1,096,393	1,103,616	14,334	1.3%
Accumulated operating surplus	37,994	42,620	47,906	(4,626)	(10.9%)
Operating surplus used to fund capital	12,380	12,380	12,380	0	0.0%
Deficiency of revenues over expenditures	1,824	(1,364)	(9,883)	3,188	(233.7%)
Total equity	1,162,925	1,150,029	1,154,019	12,896	1.1%
Total liabilities and equity	\$ 1,489,068	\$ 1,459,859	\$ 1,457,960	\$ 29,209	2.0%

HALIFAX WATER

UNAUDITED STATEMENT OF EARNINGS - ALL SERVICES - NSUARB

APRIL 1, 2021 - OCTOBER 31, 2021 (7 MONTHS)

ACTUAL YEAR TO DATE COMPLETE: 58.33%

	ACTUAL THIS YEAR '000	LAST YEAR '000	APR 1/20 MAR 31/21 BUDGET '000	APR 1/20 MAR 31/21 FORECAST '000	ACTUAL as % of BUDGET	ACTUAL YEAR TO DATE as % of FORECAST
Operating revenues						
Water	\$ 28,943	\$ 28,589	\$ 48,423	\$ 48,578	59.77%	59.58%
Wastewater	48,590	41,682	80,618	80,979	60.27%	60.00%
Stormwater site generated service	3,813	3,607	6,051	6,523	63.01%	58.45%
Stormwater right of way service	2,237	2,237	3,835	3,835	58.33%	58.33%
Fire protection (public and private)	5,276	4,649	8,940	8,972	59.02%	58.81%
Other services and fees	810	811	1,417	1,502	57.16%	53.93%
Late payment and other connection fees	305	60	563	527	54.17%	57.87%
Miscellaneous	443	242	620	696	71.45%	63.65%
	90,417	81,877	150,467	151,612	60.09%	59.64%
Operating expenditures						
Water supply and treatment	6,015	5,828	10,778	11,053	55.81%	54.42%
Water transmission and distribution	6,790	6,840	11,876	11,794	57.17%	57.57%
Wastewater collection	8,427	8,043	12,604	12,563	66.86%	67.08%
Stormwater collection	2,516	2,843	5,885	5,323	42.75%	47.27%
Wastewater treatment	12,095	11,410	22,071	21,510	54.80%	56.23%
Engineering and technology services	6,541	5,377	12,931	13,463	50.58%	48.59%
Regulatory services	2,554	2,340	4,472	4,529	57.11%	56.39%
Customer services	2,746	2,854	5,837	5,260	47.04%	52.21%
Corporate services	1,725	98	3,124	3,336	55.22%	51.71%
Administration services	2,198	3,232	4,928	4,777	44.60%	46.01%
Depreciation and amortization	16,566	15,342	30,873	31,120	53.66%	53.23%
	68,173	64,207	125,379	124,728	54.37%	54.66%
Earnings from operations before financial and other revenues and expenditures	22,244	17,670	25,088	26,884	88.66%	82.74%
Financial and other revenues						
Interest	95	149	173	135	54.91%	70.37%
Other	288	323	549	579	52.46%	49.74%
	383	472	722	714	53.05%	53.64%
Financial and other expenditures						
Interest on long term debt	4,158	4,229	7,603	6,824	54.69%	60.93%
Repayment on long term debt	12,558	11,845	22,716	21,559	55.28%	58.25%
Amortization of debt discount	133	122	258	229	51.55%	58.08%
Dividend/grant in lieu of taxes	3,866	3,282	6,837	6,626	56.55%	58.35%
Other	88	28	46	34	191.30%	258.82%
	20,803	19,506	37,460	35,272	55.53%	58.98%
Earnings (loss) for the year	\$ 1,824	\$ (1,364)	\$ (11,650)	\$ (7,674)	(15.66%)	(23.77%)

	\$	\$	\$	\$	BUDGET	% Change	\$ Change	% Change	\$ Remaining	% Remaining	\$	% Change
Operating revenues												
Wastewater	48,590	41,682	80,618	80,979	60.27%	60.00%	\$ 6,908	16.57%	\$ (32,389)	(40.00%)	\$ 361	0.45% (3.72%)
Leachate and other contract revenue	231	230	484	466	47.73%	49.57%	1	0.43%	(235)	(50.43%)	(18)	(3.72%)
Septage tipping fees	329	317	505	570	65.15%	57.72%	12	3.79%	(241)	(42.28%)	65	12.87%
Overstrength surcharge	0	0	15	10	0.00%	0.00%	0	0.00%	(10)	(100.00%)	(5)	(33.33%)
Airplane effluent	3	17	76	76	3.95%	3.95%	(14)	(82.35%)	(73)	(96.05%)	0	0.00%
Late payment and other connection fees	110	20	222	213	49.55%	51.64%	90	450.00%	(103)	(48.36%)	(9)	(4.05%)
Miscellaneous	159	90	247	251	64.37%	63.35%	69	16.67%	(92)	(36.65%)	4	1.62%
	49,422	42,356	82,167	82,565	60.15%	59.86%	7,066	16.68%	(33,143)	(40.14%)	398	0.48%
Operating expenditures												
Wastewater collection	8,427	8,043	12,604	12,563	66.86%	67.08%	384	4.77%	(4,136)	(32.92%)	(41)	(0.33%)
Wastewater treatment	12,095	11,410	22,071	21,510	54.80%	56.23%	685	6.00%	(9,415)	(43.77%)	(561)	(2.54%)
Engineering and technology services	3,160	2,893	5,881	6,090	53.73%	51.89%	467	17.34%	(2,930)	(48.11%)	209	3.55%
Regulatory services	938	819	1,587	1,611	59.11%	58.22%	119	14.53%	(1,783)	(41.78%)	24	1.51%
Customer services	1,142	1,245	2,522	2,268	45.28%	50.35%	(103)	(8.27%)	(1,126)	(49.65%)	(254)	(10.07%)
Corporate services	734	0	1,318	1,407	55.69%	52.17%	734	0.00%	(673)	(47.83%)	89	6.75%
Administration services	881	1,492	1,079	2,015	42.36%	43.72%	(611)	(40.35%)	(1,134)	(36.26%)	(64)	(3.08%)
Depreciation and amortization	9,098	8,436	16,775	16,822	54.24%	54.08%	662	7.85%	(7,724)	(45.92%)	47	0.28%
	36,475	34,138	64,837	64,286	56.26%	56.74%	2,337	6.85%	(27,811)	(43.26%)	(551)	(0.85%)
Earnings from operations before financial and other revenues and expenditures	12,947	8,218	17,330	18,279	74.71%	70.83%	4,729	57.54%	(5,332)	(29.17%)	949	5.48%
Financial and other revenues												
Interest	19	38	46	27	41.30%	70.37%	(19)	(50.00%)	(8)	(29.63%)	(19)	(41.30%)
Other	58	82	150	160	38.67%	36.25%	(24)	(29.27%)	(102)	(63.75%)	10	6.67%
	77	120	196	187	39.29%	41.18%	(43)	(35.83%)	(110)	(58.82%)	(9)	(4.59%)
Financial and other expenditures												
Interest on long term debt	2,485	2,647	4,196	4,118	59.22%	60.34%	(162)	(6.12%)	(1,633)	(39.66%)	(78)	(1.86%)
Repayment on long term debt	7,969	7,726	13,864	13,711	57.48%	58.12%	243	3.15%	(5,742)	(41.88%)	(153)	(1.10%)
Amortization of debt discount	73	70	133	126	54.89%	57.94%	3	4.29%	(53)	(42.06%)	(7)	(5.26%)
Dividend/grant in lieu of taxes	453	64	820	777	55.24%	58.30%	389	607.81%	(324)	(41.70%)	(43)	(5.24%)
Other	6	12	30	10	20.00%	60.00%	(6)	(50.00%)	(4)	(40.00%)	(20)	(66.67%)
	10,986	10,519	19,043	18,742	57.69%	56.62%	467	4.44%	(7,756)	(41.36%)	(301)	(1.58%)
Earnings (loss) for the year	\$ 2,038	\$ (2,181)	\$ (1,517)	\$ (276)	(134.34%)	(738.41%)	\$ 4,219	(193.44%)	\$ 2,314	(838.41%)	\$ 1,241	(81.8

Loss for the year

HALIFAX WATER

UNAUDITED STATEMENT OF EARNINGS - REGULATED AND UNREGULATED ACTIVITIES - NSUARB

APRIL 1, 2021 - OCTOBER 31, 2021 (7 MONTHS)

ACTUAL YEAR TO DATE COMPLETE: 58.33%

	ACTUAL			APR 1/20			MAR 31/21			APR 1/20			MAR 31/21			ACTUAL			ACTUAL		
	YEAR TO DATE			LAST YEAR			BUDGET			'000			FORECAST			as % of BUDGET			YEAR TO DATE		
	\$	'000	%	\$	'000	%	\$	'000	%	\$	'000	%	\$	'000	%	\$	'000	%	\$	'000	%
REGULATED ACTIVITIES																					
Operating revenues																					
Water	28,943	\$		28,589	\$		48,423	\$		48,578			59,77%			59,58%					
Wastewater	48,590			41,682			80,618			80,979			60,00%			60,00%					
Stormwater	6,050			5,844			9,886			10,368			58,41%			58,41%					
Public fire protection	4,449			4,127			7,628			7,628			58,32%			58,32%					
Private fire protection	827			522			1,312			1,344			61,53%			61,53%					
Miscellaneous	972			534			1,497			1,575			61,71%			61,71%					
	89,831			81,298			149,364			150,462			59,70%			59,70%					
Operating expenditures																					
Water supply and treatment	5,990			5,817			10,746			11,021			55,74%			54,35%					
Water transmission and distribution	6,790			6,840			11,876			11,794			57,17%			57,57%					
Wastewater collection	8,415			8,015			12,516			12,475			67,23%			67,45%					
Stormwater collection	2,516			2,843			5,885			5,323			42,75%			47,27%					
Stormwater treatment	11,689			11,137			21,312			20,751			54,85%			56,33%					
Engineering and technology services	6,541			5,377			12,931			13,463			50,58%			48,39%					
Regulatory services	2,554			2,340			4,472			4,529			57,11%			56,39%					
Customer services	2,743			2,818			5,837			5,260			46,99%			52,15%					
Corporate services	1,715			98			3,111			3,323			55,13%			51,61%					
Administration services	2,133			3,222			4,831			4,680			44,15%			45,58%					
Depreciation and amortization	16,556			15,332			30,855			31,102			53,66%			53,23%					
	67,642			63,839			124,372			123,721			54,39%			54,67%					
Earnings from operations before financial and other revenues and expenditures	22,189			17,459			24,992			26,741			88,78%			82,98%					
Financial and other revenues																					
Interest	95			149			173			135			54,91%			70,37%					
Other	16			7			39			41			41,03%			39,02%					
	111			156			212			176			52,36%			63,07%					
Financial and other expenditures																					
Interest on long term debt	4,158			4,229			7,592			6,813			54,77%			61,03%					
Repayment on long term debt	12,558			11,845			22,692			21,535			55,34%			56,31%					
Amortization of debt discount	133			122			258			229			51,55%			58,08%					
Dividend/grant in lieu of taxes	3,866			3,282			6,937			6,626			56,55%			58,35%					
	20,715			19,478			37,379			35,203			55,42%			58,64%					
Earnings (loss) for the year - Regulated	\$ 1,565			\$ (1,863)			\$ (12,175)			\$ (8,286)			(13,02%)			(19,13%)					

From Prior Year			Actual to Forecast			Budget to Forecast		
\$ Change	% Change		\$ Remaining	% Remaining		\$ Change	% Change	
\$	354	1.24%	\$	(19,635)	(40.42%)	\$	155	0.32%
	6,908	16.57%		(32,389)	(40.00%)		361	0.45%
	206	3.52%		(4,308)	(41.59%)		472	4.77%
	322	7.80%		(3,179)	(41.68%)		0	0.00%
	305	58.43%		(503)	(38.47%)		32	2.44%
	438	82.02%		(603)	(38.29%)		78	5.21%
	8,533	10.50%		(60,631)	(40.30%)		1,088	0.74%
	173	2.97%		(5,031)	(45.65%)		275	2.56%
	(50)	(0.73%)		(5,004)	(42.43%)		(82)	(0.69%)
	400	4.99%		(4,060)	(32.55%)		(41)	(0.33%)
	(327)	(11.50%)		(2,807)	(52.73%)		(562)	(9.55%)
	552	4.96%		(9,062)	(43.67%)		(561)	(2.63%)
	1,164	21.65%		(6,922)	(51.41%)		532	4.11%
	214	9.15%		(1,975)	(43.61%)		57	1.27%
	(75)	(2.66%)		(2,517)	(47.85%)		(577)	(9.89%)
	1,617	1650.00%		(1,608)	(48.39%)		212	6.81%
	(1,069)	(33.80%)		(2,547)	(54.42%)		(151)	(3.13%)
	1,224	7.98%		(14,546)	(46.77%)		247	0.80%
	3,803	5.96%		(56,079)	(45.33%)		(651)	(0.52%)
	4,730	27.09%		(4,552)	(17.02%)		1,749	7.00%
	(54)	(36.24%)		(40)	(29.63%)		(38)	(21.97%)
	9	128.57%		(25)	(60.98%)		2	5.13%
	(45)	(28.85%)		(65)	(36.93%)		(36)	(16.98%)
	(71)	(1.68%)		(2,655)	(38.97%)		(779)	(10.26%)
	713	6.02%		(8,977)	(41.69%)		(1,157)	(5.10%)
	11	9.02%		(96)	(41.92%)		(29)	(11.24%)
	594	17.79%		(2,760)	(41.65%)		(211)	(3.09%)
	1,237	6.35%		(14,488)	(41.16%)		(2,176)	(5.82%)
	3,448	(185.08%)		9,871	(119.13%)		3,889	(31.94%)

HALIFAX WATER

UNAUDITED STATEMENT OF EARNINGS - REGULATED AND UNREGULATED ACTIVITIES - NSUARB

APRIL 1, 2021 - OCTOBER 31, 2021 (7 MONTHS)

ACTUAL YEAR TO DATE COMPLETE: 58.33%

	ACTUAL		APR 1/20		APR 1/20		MAR 31/21		MAR 31/21		ACTUAL		ACTUAL	
	YEAR TO DATE		LAST YEAR		BUDGET		FORECAST		FORECAST		YEAR TO DATE		YEAR TO DATE	
	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000	as % of	BUDGET	as % of	FORECAST
UNREGULATED ACTIVITIES														
Operating revenues														
Operating expenditures														
Earnings from operations before financial and other revenues and expenditures														
Financial and other revenues														
Financial and other expenditures														
Earnings for the year - Unregulated														
Total earnings (loss) for the year (Regulated and Unregulated)														

	From Prior Year		Actual to Forecast		Budget to Forecast	
	\$ Change	% Change	\$ Remaining	% Remaining	\$ Change	% Change
	\$		\$		\$	
	12	3.79%	(241)	(42.28%)	65	12.87%
	1	0.43%	(235)	(50.43%)	(18)	(3.72%)
	(14)	(82.35%)	(73)	(96.05%)	0	0.00%
	8	53.33%	(15)	(39.47%)	0	0.00%
	7	1.21%	(584)	(49.04%)	47	4.26%
	14	127.27%	(7)	(21.88%)	0	0.00%
	133	48.72%	(353)	(46.51%)	0	0.00%
	(16)	(57.14%)	(76)	(86.36%)	0	0.00%
	(43)	(93.48%)	3	0.00%	0	0.00%
	10	0.00%	(3)	(23.08%)	0	0.00%
	65	0.00%	(32)	(32.99%)	0	0.00%
	0	0.00%	(8)	(44.44%)	0	0.00%
	163	44.29%	(476)	(47.27%)	0	0.00%
	(156)	(73.93%)	(88)	(61.54%)	47	48.96%
	(19)	(10.11%)	(180)	(51.58%)	28	8.72%
	(25)	(19.53%)	(86)	(45.50%)	0	0.00%
	(44)	(13.92%)	(266)	(49.44%)	28	5.49%
	60	214.29%	19	27.54%	(12)	(14.81%)
	60	214.29%	19	27.54%	(12)	(14.81%)
	(260)	(52.10%)	(373)	(60.95%)	87	16.57%
	3,188	(233.72%)	9,498	(123.77%)	3,976	(34.13%)

ITEM # 4.1
Halifax Water Board
November 25, 2021
ATTACHMENT 2

HALIFAX REGIONAL WATER COMMISSION
Reporting Periods - April to Oct 31, 2021

CoCd	Recon acct	Vendor	Name 1	Country	PostalCode	City	Street	Rg	Crcy	Purchasing
HRWC	2110	54	HALIFAX REGIONAL MUNICIPALITY	CA	B3J 3A5	HALIFAX		NS	CAD	13,143,636.92
HRWC	2020	146	NS POWER INC.	CA	B3J 2W5	HALIFAX	P.O. BOX 910	NS	CAD	5,104,536.51
HRWC	2020	1215	THE NORTHERN TRUST COMPANY	CA	M5H 1J8	TORONTO	145 KING STREET WEST, SUITE 1910	ON	CAD	4,077,548.97
HRWC	2020	1151	N-VIRO SYSTEMS CANADA LP	CA	B2T 1K3	GOFFS	350 AEROTECH PARK DR	NS	CAD	2,401,394.87
HRWC	2020	1689	LAND MARK STRUCTURES CO.	CA	L7R 3X4	BURLINGTON	3091 HARRISON COURT	ON	CAD	2,209,600.23
HRWC	2020	447	HARBOUR CONSTRUCTION COMPANY L	CA	B3B 1L3	DARTMOUTH	40 ISLEY AVE	NS	CAD	1,727,253.24
HRWC	2020	133	CHEMTRADE	CA	M5W 1P8	TORONTO		ON	CAD	1,671,689.38
HRWC	2020	2732	N HARRIS COMPUTER CORPORATION	CA	K2E 8C4	OTTAWA	1 ANLAES DRIVE, SUITE 400	ON	CAD	1,543,332.49
HRWC	2020	109	DEXTER CONSTRUCTION COMPANY LI	CA	B4A 3Z2	BEDFORD		NS	CAD	1,467,709.06
HRWC	2020	277	SACKVILLE TRENCHING LTD	CA	B4C 3G4	LOWER SACKVILLE		NS	CAD	1,326,329.73
HRWC	2020	559	BRYCON CONSTRUCTION LTD.	CA	B2Y 4P4	DARTMOUTH	67 ATLANTIC ST	NS	CAD	1,291,835.17
HRWC	2020	2180	EASTERN TRAFFIC SERVICES LIMIT	CA	B4A 3Z2	BEDFORD	927 ROCKY LAKE DRIVE	NS	CAD	1,240,484.59
HRWC	2020	2797	AMG ENVIRONMENTAL INC	CA	L4N 9J5	BARRIE	494 VETERANS DR, UNIT 12	ON	CAD	1,134,969.50
HRWC	2020	111	G & R KELLY ENTERPRISES LTD.	CA	B4B 1B1	BEDFORD	738 HAMMONDS PLAINS ROAD	NS	CAD	1,109,533.14
HRWC	2020	2	BLACK & MCDONALD LTD.	CA	B3B 1Z6	DARTMOUTH	10 PAYZANT AVENUE	NS	CAD	1,020,290.99
HRWC	2020	403	CBCL LIMITED	CA	B3J 2R7	HALIFAX		NS	CAD	1,000,302.96
HRWC	2020	340	MEDAVIE BLUE CROSS	CA	E1C 8L3	MONCTON		NB	CAD	769,787.37
HRWC	2020	2251	ATLANTIC ROAD CONSTRUCTION & P	CA	B3G 1M7	EASTERN PASSAGE		NS	CAD	735,085.48
HRWC	2020	147	BRENNTAG CANADA INC.	CA	M8Z 2G6	TORONTO	43 JUTLAND ROAD	ON	CAD	723,699.62
HRWC	2020	3342	EASTERN TRENCHLESS LTD.	CA	E3B 5N8	FREDERICTON	711 WOODSTOCK RD	NB	CAD	706,268.08
HRWC	2020	696	MINISTER OF FINANCE FOR NS	CA	B3J 2V2	HALIFAX	HALIFAX CENTRAL	NS	CAD	676,895.19
HRWC	2020	2476	CGI INFORMATION SYSTEMS AND MG	CA	E3C 2R2	FREDERICTON	30 KNOWLEDGE PARK DRIVE - SUITE #30	NB	CAD	642,581.50
HRWC	2020	1216	THE NORTHERN TRUST COMPANY	CA	M5H 1J8	TORONTO	145 KING STREET WEST, SUITE 1910	ON	CAD	628,730.36
HRWC	2020	262	OCEAN CONTRACTORS LIMITED	CA	B2Y 3Y9	DARTMOUTH		NS	CAD	554,642.30
HRWC	2020	1249	SNF CANADA LIMITED	CA	L4L 3Z5	VAUGHAN	4 DIRECTOR COURT, SUITE 101	ON	CAD	539,631.06
HRWC	2020	1	ONE TIME VENDOR	CA					CAD	534,832.13
HRWC	2020	99	IMP GROUP LIMITED	CA	B3L 4T1	HALIFAX	2651 JOSEPH HOWE DRIVE, STE 400	NS	CAD	533,158.50
HRWC	2020	1940	MICROSOFT LICENSING, GP	US	89511	RENO	6100 NEIL RD STE 210	NV	CAD	526,154.72
HRWC	2020	3069	FOAM & COATING PROS LIMITED	CA	B0N 2T0	WINDSOR	6536 HWY #14, RR #1	NS	CAD	472,763.74
HRWC	2020	3101	MEDAVIE INC. (LTD & LIFE)	CA	E1C 8L3	MONCTON	644 MAIN STREET	NB	CAD	471,154.77
HRWC	2020	1824	BULLETPROOF SOLUTIONS INC.	CA	E3C 2N5	FREDERICTON	25 ALISON BLVD	NB	CAD	470,601.52
HRWC	2020	3124	PIVOT CONSULTING INC.	CA	B3J 1P3	HALIFAX	5251 DUKE ST, SUITE 1210, DUKE TOWE	NS	CAD	444,185.14
HRWC	2020	620	BARRINGTON CONSULTING GROUP IN	CA	B3J 3R7	HALIFAX	1696 UPPER WATER STREET, TWR 2, STE	NS	CAD	433,999.27
HRWC	2020	2421	TELUS CORPORATION	CA	L7R 458	BURLINGTON		ON	CAD	426,705.42
HRWC	2020	18	ATLANTIC PURIFICATION SYSTEM	CA	B2Y 3Z5	DARTMOUTH		NS	CAD	419,993.48
HRWC	2020	2454	BOURQUE SECURITY SERVICES	CA	B3S 1B5	HALIFAX	55 CRANE LAKE DR	NS	CAD	408,822.66
HRWC	2020	283	W. ERIC WHEBBY LTD.	CA	B3B 1W2	DARTMOUTH	201 BROWNLOW AVE., UNIT 57	NS	CAD	387,818.27
HRWC	2020	2299	VEOLIA WATER SOLUTIONS & TECHN	CA	H4S 2B3	SAINT-LAURENT	4105 RUE SARTELOON	QC	CAD	380,596.24
HRWC	2020	349	NS UTILITY & REVIEW BOARD	CA	B3J 3S3	HALIFAX	PO BOX 1692 UNIT M	NS	CAD	369,638.12
HRWC	2020	246	ALPHA CHEMICAL LTD	CA	B3B 1K2	DARTMOUTH	40 PETTIPAS DRIVE	NS	CAD	353,654.30
HRWC	2020	370	MCLENNAN SALES (EMCO)	CA	NSW 3A7	LONDON	1108 DUNDAS STREET	ON	CAD	346,123.91
HRWC	2020	754	ELMSDALE LANDSCAPING LTD.	CA	B2S 1K7	ELMSDALE	113 ELMSDALE ROAD	NS	CAD	334,758.89
HRWC	2020	1976	WSP CANADA INC.	CA	H3C 5Z8	MONTREAL	SUCCURSALE CENTRE-VILLE	QC	CAD	330,657.52
HRWC	2020	2215	CORNELL VIDEO INSPECTIONS	CA	B3B 1H5	DARTMOUTH	9 RALSTON AVENUE	NS	CAD	319,309.85
HRWC	2020	41	BUREAU VERITAS CANADA (2019) I	CA	M5W 5V2	TORONTO	P O BOX 4269, POSTAL STN A	ON	CAD	292,002.02
HRWC	2020	394	DALHOUSIE UNIVERSITY	CA	B3H 4H6	HALIFAX	FINANCIAL SERVICES	NS	CAD	283,033.50
HRWC	2020	77	ESRI CANADA LIMITED	CA	M3C 3R8	TORONTO	12 CONCORDE PLACE	ON	CAD	279,243.09
HRWC	2020	2095	EASTPOINT ENGINEERING LIMITED	CA	B3J 3N4	HALIFAX	1801 HOLLIS ST - SUITE #1500	NS	CAD	270,896.12
HRWC	2020	1245	AIR LIQUIDE CANADA INC	CA	B2Y 3Z7	DARTMOUTH	180 AKERLEY BLVD	NS	CAD	268,668.53
HRWC	2020	2690	DESIGNPOINT ENGINEERING & SURV	CA	B4A 414	BEDFORD	200 WATERFRONT DR	NS	CAD	267,360.56
HRWC	2020	1565	LAURENTIDE CONTROLS	CA	H9J 4A1	KIRKLAND	18000 RTE TRANSCANADIENNE	QC	CAD	262,174.56
HRWC	2020	1287	STANTEC CONSULTING LTD.	CA	T2P 2J2	CALGARY	C/O LOCKBOX 310260, BOX 578 STN M	AB	CAD	260,886.29
HRWC	2020	649	ENVIROSYSTEMS (TERRAPURE)	CA	B3B 1Z7	DARTMOUTH	11 BROWN AVENUE	NS	CAD	247,307.13
HRWC	2020	1447	OLSEN'S MECHANICAL LIMITED	CA	B0N 2T0	WINDSOR	88 SANFORD DRIVE	NS	CAD	246,268.17
HRWC	2020	1551	MACPHEE FORD SALES	CA	B2W 3M3	DARTMOUTH	580 PORTLAND ST	NS	CAD	243,731.44
HRWC	2020	505	WOLSELEY CANADA - MECHANICAL G	CA	L7N 3V6	BURLINGTON	880 LAURENTIAN DR	ON	CAD	241,040.22
HRWC	2020	645	CANADA POST CORPORATION	CA	K1A 1L1	OTTAWA	2701 RIVERSIDE DRIVE	ON	CAD	236,199.24
HRWC	2020	98	GRAYMONT (NB) INC.	CA	M5W 5V2	TORONTO		ON	CAD	235,228.74
HRWC	2020	2886	SNT SOLUTIONS INC	CA	B4B 1P7	HAMMONDS PLAINS	1411 LUCASVILLE RD	NS	CAD	233,485.25
HRWC	2020	3521	R.V. ANDERSON ASSOCIATES LTD	CA	M2J 4Z8	TORONTO	2001 SHEPPARD AVENUE EAST SUITE 300	ON	CAD	232,951.57
HRWC	2020	1000	WESTERN PLUMBING & HEATING LTD	CA	B2Y 3Z3	DARTMOUTH		NS	CAD	229,861.91
HRWC	2020	1421	ATLANTICA MECHANICAL CONTRACTO	CA	B3B 1H5	DARTMOUTH	9 RALSTON AVENUE	NS	CAD	226,827.03
HRWC	2020	2828	ONX ENTERPRISE SOLUTIONS LTD	CA	L3T 7V8	THORNHILL	165 COMMERCE VALLEY DR W. #300	ON	CAD	223,641.84
HRWC	2020	953	MCCARTHY'S ROOFING LTD.	CA	B2W 3V1	DARTMOUTH	850 MAIN STREET	NS	CAD	219,454.89
HRWC	2020	1392	L & R CONSTRUCTION LIMITED	CA	B0N 2J0	STEWIACK	75 RIVER PARK RD., RR#2	NS	CAD	216,976.36
HRWC	2020	2892	Suez Treatment Solutions Inc	US	23255	Richmond		VA	CAD	202,921.98
HRWC	2020	47	CN NON FREIGHT	CA	M5W 5S5	TORONTO		ON	CAD	202,450.32
HRWC	2020	3558	PSD CITYWIDE INC	CA	N6A 5P3	LONDON	148 FULLARTON ST, 9TH FLOOR	ON	CAD	189,980.00
HRWC	2020	1989	RASMUSSEN'S WELDING LTD.	CA	B2X 3G8	DARTMOUTH	16 CAPRI COURT	NS	CAD	179,138.00
HRWC	2020	2371	BELL CANADA	CA	L4W 5R1	MISSISSAUGA	5115 CREEKBANK RD, E3-M2	ON	CAD	172,479.41
HRWC	2020	959	WATCHDOG SECURITY SYSTEMS	CA	B3M 4H4	HALIFAX		NS	CAD	170,375.34
HRWC	2020	2367	GIL-SON CONSTRUCTION LTD.	CA	B3T 1P3	GOODWOOD	1 MILLS DRIVE	NS	CAD	169,769.86
HRWC	2020	549	ROBINSON CONSULTANTS	CA	K2V 1A8	KANATA	350 PALLADIUM DRIVE	ON	CAD	165,491.14
HRWC	2020	3184	MUSIAL'S COMPUTER CONSULTING I	CA	B1T 1N9	BEAVER COVE	5192 GRAND NARROWS HWY	NS	CAD	164,620.45
HRWC	2020	127	SANSOM EQUIPMENT LTD	CA	B2N 6W8	TRURO	100 UPHAM DRIVE	NS	CAD	160,171.83
HRWC	2020	829	JOE JOHNSON EQUIPMENT INC.	CA	L9S 3V6	INNISFIL	2521 BOWMAN STREET	ON	CAD	157,807.07
HRWC	2020	95	MUNICIPAL ENTERPRISES LIMITED	CA	B4A 3Z2	BEDFORD		NS	CAD	157,253.53
HRWC	2020	352	CARUS CORPORATION	US	60693	CHICAGO	1555 COLLECTIONS CENTER DR	IL	CAD	154,846.53
HRWC	2020	68	SOURCE ATLANTIC	CA	E2L 4E4	SAINT JOHN		NB	CAD	154,244.77
HRWC	2020	2298	FILTRUM CONSTRUCTION	CA	G1M 1B3	QUEBEC	430 RUE DES ENTREPRENEURS	QC	CAD	154,241.23
HRWC	2020	297	C.R. FALKENHAM	CA	B4A 1N4	BEDFORD	8 LINDSAY HILL	NS	CAD	150,741.43
HRWC	2020	2926	ITRON CANADA INC	US	99019	LIBERTY LAKE	2111 N MOLTER RD	WA	CAD	147,900.93
HRWC	2020	3577	MINDWIRE SYSTEMS LTD	CA	K1Z 8P9	OTTAWA	1545 CARLING AVENUE - SUITE 308	ON	CAD	146,469.75
HRWC	2020	51	LINDE	CA	H3B 3L2	MONTREAL		QC	CAD	143,121.03
HRWC	2020	2463	MARINER PARTNERS INC	CA	E2L 5G5	SAINT JOHN	12 SMYTHE STREET, 3RD FLOOR	NB	CAD	141,816.85
HRWC	2020	1126	EVOQUA WATER TECHNOLOGIES LLC	US	30022	ALPHARETTA	4800 NORTHPOINT PARKWAY - SUITE #25	GA	CAD	140,349.18

HALIFAX REGIONAL WATER COMMISSION
Reporting Periods - April to Oct 31, 2021

CoCd	Recon acct	Vendor	Name 1	Country	PostalCode	City	Street	Rg	Crcy	Purchasing
HRWC	2020	3136	GARTNER CANADA CO.	CA	M2N 7E9	TORONTO	5000 YONGE ST, 14TH FLOOR, SUITE 14	ON	CAD	137,195.00
HRWC	2020	264	XYLEM WATER SOLUTIONS	CA	H9R 4V5	POINT-CLAIRE	300 LABROSSE AVE	QC	CAD	132,937.53
HRWC	2020	320	IRVING ENERGY DISTRIBUTION & M	CA	E2L 4C3	SAINT JOHN		NB	CAD	131,381.16
HRWC	2020	1347	NATIONAL PROCESS EQUIPMENT INC	CA	B3B 1L5	DARTMOUTH	95 ISLEY AVENUE UNIT C	NS	CAD	131,377.70
HRWC	2020	934	L & B ELECTRIC LTD.	CA	B4V 3V4	BRIDGEWATER	94 WENTZELL DRIVE	NS	CAD	131,329.10
HRWC	2020	2883	VALMET LTD	CA	H4R 2B2	ST LAURENT	4900 BOUL THIMENS	QC	CAD	131,206.26
HRWC	2020	263	MCINNES COOPER	CA	B3J 3R7	HALIFAX	1969 UPPER WATER ST	NS	CAD	129,575.42
HRWC	2020	3458	CHERWELL SOFTWARE LLC	US	80908	COLORADO SPRINGS	10125 FEDERAL DRIVE SUITE 100	CO	CAD	127,717.12
HRWC	2020	332	SUEZ WATER TECHNOLOGIES & SOLU	CA	H3C 5H1	MONTREAL		QC	CAD	124,483.34
HRWC	2020	92	BATTLEFIELD EQUIPMENT RENTALS	CA	B3B 2B1	DARTMOUTH	185 AKERLEY BLVD	NS	CAD	124,100.73
HRWC	2020	2289	DALE FABRICATION INC.	CA	B4E 3C1	UPPER SACKVILLE	43 CARIBOU ROAD	NS	CAD	118,734.05
HRWC	2020	3517	CUPE NATIONAL (LOCAL 227)	CA	K1G 0Z7	OTTAWA	1375 ST. LAURENT BLVD	ON	CAD	117,149.31
HRWC	2020	1272	ROYAL ENVIRONMENTAL INC	CA	B3M 2T2	HALIFAX	209 KEARNEY LAKE DRIVE	NS	CAD	116,985.78
HRWC	2020	3202	NOVA SPATIAL	CA	B4A 3R4	BEDFORD	130 BEDFORD HILLS ROAD	NS	CAD	114,734.25
HRWC	2020	305	TOROMONT CAT	CA	B2Y 3Z6	DARTMOUTH	P.O. BOX 953	NS	CAD	114,597.11
HRWC	2020	128	BELL ALIANT MOBILITY INC	CA	L7R 4R7	BURLINGTON		ON	CAD	111,354.65
HRWC	2020	2839	ROGERS ELECTRIC & MACHINE	CA	E2A 4W7	BATHURST	1990 CONNOLLY AVE	NB	CAD	104,803.50
HRWC	2020	1468	MEGA-LAB MANUFACTURING CO.LTD	CA	L4K 5R2	CONCORD	361 CONNIE CRESCENT, UNIT B	ON	CAD	100,667.56
HRWC	2020	3480	ENVIROGEM INC	CA	L5M 5L5	MISSISSAUGA	2529 RAGLAN COURT	ON	CAD	100,295.00
HRWC	2020	364	ACKLANDS GRAINGER INC.	CA	R3C 4B5	WINNIPEG		MB	CAD	99,673.29
HRWC	2020	3564	BLUECONDUIT	US	48103	ANN ARBOR	315 2nd ST APT 205	MI	CAD	99,574.50
HRWC	2020	666	CAPS PLUS	CA	B4C 2K3	LWR. SACKVILLE	732 OLD SACKVILLE ROAD	NS	CAD	96,450.43
HRWC	2020	153	NORTHEAST EQUIPMENT LIMITED	CA	B3B 1W1	DARTMOUTH	135 JOSEPH ZATZMAN DRIVE	NS	CAD	93,930.95
HRWC	2020	548	IMPERIAL CLEANERS LTD.	CA	B2W 6B2	DARTMOUTH	PO BOX 21057	NS	CAD	90,453.25
HRWC	2020	2326	HR ATLANTIC	CA	C1A 4I6	CHARLOTTETOWN	20 GREAT GEORGE ST UNIT 201	PE	CAD	89,394.15
HRWC	2020	2488	BLUEROCK CONSTRUCTION	CA	B3E 1C6	LAKE ECHO	3416 HIGHWAY #7	NS	CAD	89,008.10
HRWC	2020	420	NEPTUNE TECHNOLOGY GROUP	CA	M5W 2N7	TORONTO		ON	CAD	86,768.65
HRWC	2020	2455	NOXON NORTH AMERICA INC.	CA	M2J 4Z8	TORONTO	810-2001 SHEPPARD AVENUE, EAST	ON	CAD	86,685.00
HRWC	2020	121	MACFARLANDS RENTIT	CA	B3B 0I6	DARTMOUTH	34 CUTLER AVENUE	NS	CAD	84,053.80
HRWC	2020	367	CONRAD BROTHERS LTD	CA	B2W 3Y2	DARTMOUTH	PO BOX 2129 DARTMOUTH EAST	NS	CAD	83,230.37
HRWC	2020	3565	AVERTRA CORP	US	20170	HERNDON	580 HERNDON PARKWAY	VA	CAD	80,418.09
HRWC	2020	159	P.S.C. EMPLOYEES' CREDIT UNION	CA	B3K 5M1	HALIFAX		NS	CAD	79,451.16
HRWC	2020	965	ADVANCED ENERGY MANAGEMENT LTD	CA	B3B 0B1	DARTMOUTH	60 DOREY AVE, SUITE 103	NS	CAD	79,194.40
HRWC	2020	3260	ENGLOBE CORP.	CA	B3R 2A7	DARTMOUTH	97 TROOP AVE	NS	CAD	76,770.48
HRWC	2020	905	EASTLINK	CA	B3K 5M2	HALIFAX		NS	CAD	75,951.75
HRWC	2020	2802	SFC ENERGY LTD	CA	T2C 5C2	CALGARY	10509 46 STREET SE	AB	CAD	75,119.17
HRWC	2020	1267	WAJAX INDUSTRIAL COMPONENTS	CA	H8T 2Y3	LACHINA	2200 52nd AVENUE	QC	CAD	74,559.90
HRWC	2020	2649	C & C SAFETY & COMPLIANCE SERV	CA	B3M 4X2	HALIFAX	64 BEDROS LANE, APT 603	NS	CAD	73,713.30
HRWC	2020	239	OMNITECH INCORPORATED	CA	B3B 1J4	DARTMOUTH	10 AKERLEY BLVD., STE 1	NS	CAD	72,429.89
HRWC	2020	2701	FRONTLINE TRAFFIC	CA	B3G 1M7	EASTERN PASSAGE		NS	CAD	70,631.12
HRWC	2020	1610	RECEIVER GENERAL FOR CANADA	CA	K1A 0K2	OTTAWA	101 COLONEL BY DR	ON	CAD	70,548.78
HRWC	2020	1624	NORTHERN BUSINESS INTELLIGENCE	CA	B3B 0K4	DARTMOUTH	201-26 AKERLEY BLVD	NS	CAD	70,475.69
HRWC	2020	3052	BLUEJACK CONSULTING INC.	CA	B3J 0G7	UPPER TANTALLON	152 FALCOURT RUN	NS	CAD	69,874.00
HRWC	2020	537	CANSEL WADE	CA	B3B 1L3	DARTMOUTH	100 ISLEY AVE - UNIT C AND D	NS	CAD	69,432.90
HRWC	2020	223	REXEL CANADA ELECTRICAL INC.-A	CA	B3B 1X2	BURNSIDE		NS	CAD	68,713.20
HRWC	2020	902	TOTAL FALL PROTECTION	CA	B2W 3C8	DARTMOUTH		NS	CAD	67,407.59
HRWC	2020	160	CANADIAN UNION OF PUBLIC EMPLO	CA	K1G 0Z7	Ottawa	1375 St. Laurent Blvd	ON	CAD	66,622.28
HRWC	2020	94	BELL ALIANT	CA	E2L 4K2	SAINT JOHN		NB	CAD	64,832.83
HRWC	2020	818	ST. JOSEPH PRINT GROUP INC	CA	K1G 6S1	OTTAWA	1165 KENASTON RD	ON	CAD	64,636.14
HRWC	2020	183	K & D PRATT LIMITED	CA	A1N 459	MOUNT PEARL	126 GLENCOE DRIVE	NL	CAD	62,964.42
HRWC	2020	385	SNC LAVALIN OPERATIONS AND MAI	CA	B3J 3R4	HALIFAX	5657 SPRING GARDEN ROAD, STE 200	NS	CAD	60,539.93
HRWC	2020	1929	BEDFORD READY MIX LTD	CA	E2K 5L6	SAINT JOHN	400 CHESLEY DRIVE	NB	CAD	60,487.08
HRWC	2020	860	UNIVAR CANADA LTD.	CA	M5W 0B8	TORONTO	PO BOX 4910, STATION A	ON	CAD	60,327.10
HRWC	2020	3439	STRONGCO CORPORATION	CA	L4W 4Z4	MISSISSAUGA	1640 ENTERPRISE RD	ON	CAD	60,201.04
HRWC	2020	424	FRED M. DUNPHY EXCAVATING	CA	B2Z 1B3	WESTPHAL	237 LAKE MAJOR ROAD	NS	CAD	59,731.01
HRWC	2020	1344	BROOKFIELD CONCRETE PRODUCTS L	CA	B0N 1C0	BROOKFIELD		NS	CAD	58,497.89
HRWC	2020	3017	KULVINDER DHILLON	CA	B3S 1K4	HALIFAX	22 PARKMOUNT CLOSE	NS	CAD	57,197.19
HRWC	2020	1303	EASTERN ALTERNATIVE POWER SYST	CA	B3B 1S4	DARTMOUTH	N-21 ILSLEY AVE	NS	CAD	57,069.99
HRWC	2020	3571	ARCADIS	US					CAD	55,495.28
HRWC	2020	414	BEVLO PRODUCTS INC.	CA	B3E 1H4	PORTERS LAKE	2 THIS STREET	NS	CAD	54,347.02
HRWC	2020	1348	TRIHEDEL ENGINEERING LTD	CA	B4A 1C1	BEDFORD	1160 BEDFORD HWY., SUITE 400	NS	CAD	54,180.60
HRWC	2020	497	MERCER HUMAN RESOURCE	CA	B3J 3N4	HALIFAX	1801 HOLLIS ST., STE 1300	NS	CAD	51,203.08
HRWC	2020	3216	ADESSO PROJECT MANAGEMENT	CA	B3J 2A4	HALIFAX	1725 BARRINGTON ST, SUITE 300	NS	CAD	50,955.72
HRWC	2020	1258	TEAK TREE ENTERPRISES	CA	B4C 4C9	LAKEVIEW	229 THIRD AVENUE	NS	CAD	50,784.00
HRWC	2020	144	MINISTER OF FINANCE	CA	B3J 2T9	HALIFAX	PO BOX 698	NS	CAD	50,595.01
HRWC	2020	371	XEROX CANADA LTD.	CA	M4W 3H1	TORONTO	33 BLOOR STREET EAST	ON	CAD	50,421.10
HRWC	2020	1268	FOURNIER INDUSTRIES INC	CA	G6H 2B5	THETFORD MINES	3787 BOULEVARD FRONTENAC OUEST	QC	CAD	49,768.84
HRWC	2020	522	GRANT THORNTON	CA	B3J 0E9	HALIFAX	1675 GRAFTON ST, SUITE 1001	NS	CAD	49,195.51
HRWC	2020	867	MITCHELMORE ENGINEERING	CA	B3S 1S8	DARTMOUTH	109 ILSLEY AVE, UNIT 14	NS	CAD	48,041.27
HRWC	2020	2045	KEMTAG ENTERPRISES LTD	CA	E1B 4T9	RIVERVIEW		NB	CAD	47,593.90
HRWC	2020	569	COASTAL CONTROLS & INSTRUMENT	CA	B4A 2Z5	BEDFORD	20 DUKE STREET, UNIT 107	NS	CAD	47,345.68
HRWC	2020	399	ECKLER PARTNERS LTD.	CA	B3J 3R7	HALIFAX	1969 UPPER WATER STREET, STE 1306	NS	CAD	46,847.09
HRWC	2020	1273	POOLCORP / SCP DISTRIBUTORS IN	CA	B4B 1J3	BEDFORD	380 BLUEWATER ROAD	NS	CAD	45,300.87
HRWC	2020	2033	WESTECH ENGINEERING INC	US	84165-0068	SALT LAKE CITY		UT	CAD	44,194.97
HRWC	2020	348	EASTERN FENCE ERECTORS LTD.	CA	B3B 0I5	DARTMOUTH	145 CUTLER AVENUE	NS	CAD	43,963.35
HRWC	2020	2485	PRIORITY WATER LTD	CA	B4E 3G1	MIDDLE SACKVILLE	1272 SACKVILLE DR	NS	CAD	43,660.00
HRWC	2020	2272	WALLACE CONSTRUCTION SPECIALTI	CA	S7K 1T6	SASKATOON	825 MACKAY ST	SK	CAD	41,961.19
HRWC	2020	3553	DIRECT EQUIPMENT LTD	CA	L6J 7T5	OAKVILLE	1363 CORNWALL RD	ON	CAD	41,866.50
HRWC	2020	184	WORK AUTHORITY	CA	M5W 1P8	TORONTO		ON	CAD	41,617.56
HRWC	2020	1762	STONHARD DIVISION, RPM CANANDA	CA	L1N 9C9	WHITBY	95 SUNRAY STREET	ON	CAD	39,810.70
HRWC	2020	2292	SEPEX.COM	US	44193	CLEVELAND	PO BOX 951454	OH	CAD	38,245.75
HRWC	2020	97	GRAYBAR CANADA LTD	CA	B3K 5M7	HALIFAX		NS	CAD	37,328.17
HRWC	2020	2876	Nintex	US	98004	Bellevue	10800 NE 8th Street Suite 400	WA	CAD	36,939.00
HRWC	2020	3148	CITY CENTRE PROPERTY MANAGEMEN	CA	B3M 0I9	HALIFAX	300-50 BEDFORD HIGHWAY	NS	CAD	35,997.78
HRWC	2020	2608	CDW CANADA INC	CA	M5W 5M5	TORONTO	POSTAL STATION A	ON	CAD	35,618.26
HRWC	2020	245	SACKVILLE CONCRETE LTD.	CA	B4C 3Z2	LR. SACKVILLE	17 ESTATE DRIVE	NS	CAD	34,923.85

HALIFAX REGIONAL WATER COMMISSION
Reporting Periods - April to Oct 31, 2021

CoCd	Recon acct	Vendor	Name 1	Country	PostalCode	City	Street	Rg	Crcy	Purchasing
HRWC	2020	1367	FLOWSTAR INDUSTRIAL INC	CA	B2N 5Z5	TRURO		NS	CAD	34,514.50
HRWC	2020	162	STRUM ENGINEERING ASSOC LTD	CA	B3B 1Y6	DARTMOUTH	80 EILEEN STUBBS AVE.	NS	CAD	34,478.94
HRWC	2020	1351	GCR TIRE CENTRES	CA	L5R 3G5	MISSISSAUGA	5770 HURONTARIO STREET, SUITE 400	ON	CAD	34,459.43
HRWC	2020	3435	EXCALIBUR DATA SYSTEMS CORP	CA	E2M 5S8	LANCASTER	PO BOX 27068	NB	CAD	34,284.71
HRWC	2020	2933	C & D CLEANING & SECURITY SERV	CA	B3S 1A8	HALIFAX	106 CHAIN LAKE DR, UNIT 2A	NS	CAD	34,271.15
HRWC	2020	2598	GM BLUEPLAN ENGINEERING LIMITE	CA	N1K 1B8	GUELPH	650 WOODLAWN ROAD WEST, BLOCK C, UN	ON	CAD	34,169.37
HRWC	2020	3570	RAFTELIS	US	28202	Charlotte	227 W Trade St	NC	CAD	34,000.00
HRWC	2020	335	RECEIVER GENERAL FOR CANADA	CA	K1P 6K1	OTTAWA		ON	CAD	33,943.26
HRWC	2020	3413	C3 WATER INC	CA	N0B 1M0	BRESLAU	350 WOOLWICH STREET SOUTH	ON	CAD	33,746.00
HRWC	2020	3042	CLEANEARTH INDUSTRIAL	CA	B3B 1C5	DARTMOUTH	20 MACDONALD AVENUE	NS	CAD	33,497.42
HRWC	2020	1169	IMAGINIT CANADA	CA	LSW 1Y5	MISSISSAUGA	151 COURTNEY PARK DR. WEST STE. 201	ON	CAD	33,445.68
HRWC	2020	443	LIVINGSTON INTERNATIONAL	CA	H4T 2B5	St. Laurent, Bureau 300	6700 chemin de la Coste-de-Liesse	QC	CAD	33,400.50
HRWC	2020	284	NOVA COMMUNICATIONS	CA	B3B 0J5	DARTMOUTH	89 CUTLER AVE, UNIT 104	NS	CAD	32,694.78
HRWC	2020	2302	A-PLUS ROOFING & MASONRY LTD	CA	B4C 1R9	LOWER SACKVILLE	186 SKYRIDGE AVE	NS	CAD	32,315.00
HRWC	2020	1666	KROWN RUST CONTROL SYSTEMS	CA	B3K 4P3	HALIFAX	2823 ROBIE STREET	NS	CAD	32,216.50
HRWC	2020	3401	HOMEWOOD HEALTH INC	CA	V6E 3S7	VANCOUVER	1050 WEST PENDER ST, SUITE 500	BC	CAD	31,579.01
HRWC	2020	102	MARSH ADJUSTMENT BUREAU LTD.	CA	B4A 1E6	BEDFORD	1550 BEDFORD HWY., STE 711	NS	CAD	31,456.57
HRWC	2020	3551	ICINFRASTRUCTURE CORPORATION	CA	V4T 2E9	WEST KELOWNA	2475 DOBBIN ROAD UNIT 22-517	BC	CAD	31,452.75
HRWC	2020	1281	HERCULES SLR INC	CA	B3B 1B3	DARTMOUTH	520 WINDMILL ROAD	NS	CAD	31,048.60
HRWC	2020	455	AECOM CANADA LIMITED	CA	L3T 7W3	MARKHAM	105 COMMERCE VALLEY DRIVE WEST	ON	CAD	30,688.81
HRWC	2020	1135	FADER AGENCIES	CA	B3B 1L6	DARTMOUTH	30 TOPPLE DR	NS	CAD	30,484.64
HRWC	2020	1172	BDI A DIVISION OF BELL MOBILIT	CA	M9C 0A8	ETOBICOKE	PO A	ON	CAD	30,168.07
HRWC	2020	586	BIRD STAIRS	CA	B3B 0C9	DARTMOUTH	102 JOHN SAVAGE AVENUE	NS	CAD	30,101.48
HRWC	2020	3560	PROGRESS	US	1730	BEDFORD	14 OAK PARK DR	MA	CAD	30,086.79
HRWC	2020	292	VVR INTERNATIONAL, CO	CA	LSN 5Z7	MISSISSAUGA	2360 ARGENTIA RD	ON	CAD	29,275.39
HRWC	2020	654	LONGSTAFF-PARKER-WAMBOLDT SURV	CA	B2W 3Y6	DARTMOUTH	73 TACOMA DRIVE - SUITE 807	NS	CAD	28,750.00
HRWC	2110	451	HALIFAX REGIONAL MUNICIPALITY	CA	B3J 3Y8	HALIFAX	1841 ARGYLE ST., CITY HALL, 4TH FLO	NS	CAD	27,879.33
HRWC	2020	173	QUALITY CONCRETE	CA	B3B 1C5	DARTMOUTH	20 MACDONALD AVENUE	NS	CAD	27,876.12
HRWC	2020	3612	GARLAND CANADA INC	CA	M9W 5Y8	ETOBICOKE	209 CARRIER DRIVE	ON	CAD	27,536.75
HRWC	2020	3252	INFO-EXCAVATION	CA	H3M 3E2	MONTREAL	1600 BOUL-HENRI-BOURASSA O	QC	CAD	27,528.69
HRWC	2020	1261	WAJAX POWER SYSTEMS	CA	G1X 3W1	QUEBEC	2297 RUE WATT	QC	CAD	26,799.56
HRWC	2020	3614	GW ASPHALT PAVING LIMITED	CA	B2Z 2T6	COLE HARBOUR	1729 COLE HARBOUR RD	NS	CAD	26,243.00
HRWC	2020	93	THE HALIFAX HERALD LTD.	CA	B3J 2T2	HALIFAX		NS	CAD	26,223.72
HRWC	2020	500	SGS CANADA INC.	CA	M5W 4W2	TORONTO	PO BOX 4580, DEPT 5, STN A	ON	CAD	25,853.15
HRWC	2020	1263	ROMA WELDING & MAINTENANCE LTD	CA	B3E 1K5	PORTERS LAKE	442 WEST PORTERS LAKE ROAD	NS	CAD	25,723.45
HRWC	2020	181	PARTS FOR TRUCKS INC.	CA	B3B 1C6	DARTMOUTH	15 MACDONALD AVE.	NS	CAD	25,040.51
HRWC	2020	2912	MAPDEV TECHNOLOGY SOLUTIONS IN	CA	B4C 4A2	LOWER SACKVILLE	100 STONE MOUNT DR	NS	CAD	24,985.96
HRWC	2020	1185	EATON INDUSTRIES (CANADA) COMP	CA	K1B 5N2	OTTAWA	2615 LANCASTER ROAD, UNIT 6	ON	CAD	24,610.00
HRWC	2020	2939	KSB PUMPS INC.	CA	L4W 8G2	MISSISSAUGA	5205 TOMKEN ROAD	ON	CAD	24,494.60
HRWC	2020	2848	JOHN BROOKS	CA	LSN 7K5	MISSISSAUGA	2625 MEADOWPINE BLVD	ON	CAD	24,231.67
HRWC	2020	1767	CTS CONTAINER & TRAILER SERVIC	CA	B3B 1C6	DARTMOUTH	33 MACDONALD AVENUE	NS	CAD	24,152.30
HRWC	2020	2361	PREDICTIVE SUCCESS CORPORATION	CA	L1N 1X3	WHITBY	316 COLBORNE ST WEST	ON	CAD	24,029.25
HRWC	2020	1402	WURTH CANADA LTD	CA	N1C 0A1	GUELPH	345 HANLON CREEK BOULEVARD	ON	CAD	24,006.99
HRWC	2020	1196	PORT OF HALIFAX	CA	B3J 2P6	HALIFAX		NS	CAD	23,916.18
HRWC	2020	1683	STRUM ENVIRONMENTAL	CA	B4A 1C5	BEDFORD	1355 BEDFORD HIGHWAY	NS	CAD	23,853.88
HRWC	2020	1908	KGP CO. (FORMERLY HUTTON COMM	CA	L4W 2R4	MISSISSAUGA	5228 EVEREST DR	ON	CAD	23,730.24
HRWC	2020	2597	ATLANTEK COMPUTER POWER SOLUTI	CA	B3B 1R3	DARTMOUTH	14-24 SIMMONDS DR	NS	CAD	23,248.98
HRWC	2020	3120	OPIN SOFTWARE INC.	CA	K1R 5T5	OTTAWA	320 CATHERINE ST, SUITE 2	ON	CAD	23,000.00
HRWC	2020	1505	DUERDEN&KEANE ENVIRONMENTAL IN	CA	B3A 2M3	DARTMOUTH	26 FOREST ROAD	NS	CAD	22,770.00
HRWC	2020	1450	COX & PALMER	CA	B3J 3E5	HALIFAX	1959 UPPER WATER STREET	NS	CAD	22,543.22
HRWC	2020	1469	MICHELIN NORTH AMERICA(CANADA)	CA	H3C 6P4	MONTREAL	P O BOX 11725, SUCCURSALE CENTRE-VI	QC	CAD	22,071.21
HRWC	2020	2662	ENVIROSPHERE CONSULTANTS LTD.	CA		NEWPORT		NS	CAD	21,851.45
HRWC	2020	3606	NEXOM INC	CA		NAVIN	5 BURKS WAY	MB	CAD	21,620.00
HRWC	2020	659	XL ELECTRIC LIMITED	CA	B3B 1K3	DARTMOUTH	4 WADDELL AVENUE	NS	CAD	21,577.24
HRWC	2020	281	J & M MURPHY LTD.	CA	B3L 4H7	HALIFAX	3514 JOSEPH HOWE DRIVE	NS	CAD	21,562.78
HRWC	2020	3409	SHORELINE LUBE DISTRIBUTION IN	CA	E4P 7M7	GRAND BARACHOIS	55 RAYMEL ROAD	NB	CAD	21,393.95
HRWC	2020	886	WAJAX EQUIPMENT	CA	T7X 5A3	ACHESON	#30 26313 TWP 531A	AB	CAD	21,339.92
HRWC	2020	1238	PITNEY WORKS	CA	L9W 2Z7	ORANGEVILLE		ON	CAD	21,277.19
HRWC	2020	341	ANIXTER CANADA INC	CA	H2Y 3E9	MONTREAL	PO BOX 144 SUCCERSALE PLACE	QC	CAD	21,047.29
HRWC	2020	630	ATLANTIC CRANE & MAT. HANDLING	CA	B3B 1V6	DARTMOUTH	49 TRIDER CRES	NS	CAD	20,814.21
HRWC	2020	3203	NOVATE SYSTEMS INC.	CA	B3B 1P7	DARTMOUTH	900 WINDMILL RD, UNIT 107B	NS	CAD	20,562.00
HRWC	2020	1629	HAYWARD GORDON LTD.	CA	L7G 0A3	HALTON HILLS	5 BRIGDEN GATE	ON	CAD	20,353.68
HRWC	2020	2202	PMC INC	US	21204	TOWSON	110 WEST RD, SUITE 213	MD	CAD	20,189.23
HRWC	2020	3130	HATCH CORPORATION	CA	B3J 3K8	HALIFAX	1809 BARRINGTON ST, SUITE 1009	NS	CAD	20,041.07
HRWC	2020	1754	JAVELIN CONSTRUCTION LTD	CA	B3A 1H3	DARTMOUTH	311 WINDMILL ROAD	NS	CAD	19,785.75
HRWC	2020	2733	EC ARMITAGE HARDWARE	CA	B3K 2E9	HALIFAX	5655 STANLY ST	NS	CAD	19,769.67
HRWC	2020	3559	SURVIVAL SYSTEMS TRAINING LTD	CA	B2Y 4R9	DARTMOUTH	40 MOUNT HOPE AVE	NS	CAD	19,607.50
HRWC	2020	3602	HIGHLAND GEOMATICS & ENGINEERI	CA	B4C 2R3	LOWER SACKVILLE	153 SACKVILLE DR, SUITE 1	NS	CAD	19,550.00
HRWC	2020	3119	ILLER DOOR SYSTEMS LTD.	CA	B6L 1X2	TRURO	159 TRURO HEIGHTS RD	NS	CAD	19,395.91
HRWC	2020	1306	STRESCON LIMITED	CA	E2K 5L6	SAINT JOHN	400 CHESLEY DRIVE	NB	CAD	19,343.00
HRWC	2020	3498	COOPER EQUIPMENT RENTALS LTD	CA	LSW 0G7	MISSISSAUGA	255 LONGSIDE DR UNIT 103	ON	CAD	19,322.43
HRWC	2020	3527	MITACS INC	CA	V6T 123	VANCOUVER	6190 AGRONOMY RD, SUITE 301	BC	CAD	19,166.67
HRWC	2020	2906	CORRPRO CANADA INC.	CA	H9P 1G9	DORVAL	1985 55TH AVENUE	QC	CAD	19,105.53
HRWC	2020	1630	CANADIAN BEARINGS LTD	CA	L5S 1S5	MISSISSAUGA	1600 DREW RD	ON	CAD	18,703.15
HRWC	2020	2920	LUMEN DIVISION OF SONEPAR CANA	CA	H2Y 1L6	MONTREAL	119 SAINT-JACQUES ST	QC	CAD	18,645.20
HRWC	2020	1410	HSE INTEGRATED LTD	CA	B3B 1L5	DARTMOUTH	95 ILSLEY AVENUE	NS	CAD	18,474.75
HRWC	2020	2098	WILL-KARE PAVING & CONTRACTING	CA	B2N 5E5	TRURO	95 LOWER TRURO RD, BOX 651	NS	CAD	18,170.23
HRWC	2020	1211	CUMMINS CANADA ULC	CA	H9R 1C2	POINT CLAIRE	7200 TRANS CANADA HWY	QC	CAD	18,161.25
HRWC	2020	3146	NETWRIX	US	43017	DUBLIN	565 METRO PLACE	OH	CAD	18,028.79
HRWC	2020	1827	EAST COAST INTERNATIONAL TRUCK	CA	E1H 2R5	MONCTON	100 URQUHART AVE	NB	CAD	17,095.78
HRWC	2020	334	HETEK SOLUTIONS INC.	CA	T5J 3P4	EDMONTON	10250 101 STREET NW	AB	CAD	16,632.28
HRWC	2020	2493	INDEPENDENT SECURITY SERVICES	CA	B3M 3Y7	HALIFAX	287 LACEWOOD DR, UNIT 103, SUITE 14	NS	CAD	15,971.90
HRWC	2020	849	BRANDT TRACTOR LTD.	CA	S4P 3R8	REGINA	HWY1 EAST BOX 3856	SK	CAD	15,941.65
HRWC	2020	2182	DAN-X RECYCLING LIMITED	CA	B3B 1R6	DARTMOUTH	64 TRIDER CRES	NS	CAD	15,891.72
HRWC	2020	728	MMP OFFICE INTERIORS INC.	CA	B3B 1B8	DARTMOUTH	656 WINDMILL ROAD	NS	CAD	15,806.68
HRWC	2020	3611	SMITH + ANDERSEN CONSULTING EN	CA	B3J 3R7	HALIFAX	1969 UPPER WATER STREET - SUITE 190	NS	CAD	15,752.70


HALIFAX REGIONAL WATER COMMISSION
Reporting Periods - April to Oct 31, 2021

CoCd	Recon acct	Vendor	Name 1	Country	PostalCode	City	Street	Rg	Crcy	Purchasing
HRWC	2020	2884	KENT HOMES	CA	E2L 4M3	SAINT JOHN		NB	CAD	15,722.80
HRWC	2020	3054	CORPORATE EXPRESS CANADA INC	CA	B3B 2E5	DARTMOUTH	2 ROYLES AVENUE	NS	CAD	15,588.57
HRWC	2020	977	UNDERGROUND CONSULTING SERVICE	CA	B3A 3H7	DARTMOUTH	12 GRAHAM STREET	NS	CAD	15,411.61
HRWC	2020	486	ATLANTIC BACKFLOW SPECIALISTS	CA	B2W 3K6	DARTMOUTH	65 MT. EDWARD ROAD	NS	CAD	15,105.15
HRWC	2020	1585	WHITE CAP SUPPLY/BRAFASCO	CA	L4L 0B9	VAUGHAN	100 GALCAT DR	ON	CAD	15,089.53
HRWC	2020	541	HACH SALES & SERVICE CANADA LP	CA	N5V 4T7	LONDON	3020 GORE RD	ON	CAD	15,010.33
HRWC	2020	3192	KORN FERRY HAY GROUP LTD.	CA	M5J 2T3	TORONTO	181 BAY ST, SUITE 3810	ON	CAD	14,892.50
HRWC	2020	1934	BRUNSWICK NEWS INC	CA	E1C 8P3	MONCTON	PO BOX 1001	NB	CAD	14,705.34
HRWC	2020	1482	HERITAGE GAS LIMITED	CA	B2Y 4W3	DARTMOUTH		NS	CAD	14,590.09
HRWC	2020	494	NGUYEN TECHNOLOGIES & ELECTRIC	CA	B3A 1H8	DARTMOUTH	339 WINDMILL ROAD	NS	CAD	14,133.86
HRWC	2020	2288	VAN HOUTTE COFFEE SERVICES INC	CA	H1Z 4J9	MONTREAL	8215 17TH AVENUE	QC	CAD	14,091.99
HRWC	2020	185	SERVANT, DUNBRACK, MCKENZIE &	CA	B3S 1C6	HALIFAX	36 OLAND CRESCENT	NS	CAD	13,959.85
HRWC	2020	3557	THE PROCUREMENT LAW OFFICE	CA	M5V 3L5	TORONTO	781 KING ST WEST, SUITE 406	ON	CAD	13,800.00
HRWC	2020	882	HEATHER BOUDREAU	CA	B4B 2B2	HAMMONDS PLAINS	28 HARNESS TRAIL	NS	CAD	13,774.98
HRWC	2020	2566	JC AUTOWORKS INCORPORATED	CA	B3V 1A3	HARRIETSFIELD	801 OLD SAMBRO ROAD	NS	CAD	13,654.09
HRWC	2020	3575	VOLCANO CONSTRUCTION SERVICES	CA	B3B 1E4	DARTMOUTH	36 FIELDING AVENUE	NS	CAD	13,455.00
HRWC	2020	3546	XPLORENET COMMUNICATIONS	CA	E7M 6B5	WOODSTOCK	300 LOCKHART MILL RD, PO BOX 9060	NB	CAD	13,363.00
HRWC	2020	1365	MARITIME HOSE SPECIALTIES	CA	L5T 1V1	MISSISSAUGA	7245 PACIFIC CIRCLE	ON	CAD	13,290.99
HRWC	2020	816	J.W. LINDSAY ENTERPRISES LTD.	CA	B3B 1E2	DARTMOUTH	22 FIELDING AVENUE	NS	CAD	13,222.37
HRWC	2020	2846	MAXWELL PROMOTIONAL PRODUCTS	CA	B3M 3Y7	HALIFAX	287 LACEWOOD DRIVE UNIT 103-273	NS	CAD	12,844.35
HRWC	2020	9	AWWA RESEARCH FOUNDATION	US	80235-3098	DENVER	6666 WEST QUINCY AVENUE	CO	CAD	12,688.71
HRWC	2020	3181	ROCKWELL AUTOMATION CANADA LTD	CA	M5W 1P8	TORONTO		ON	CAD	12,581.00
HRWC	2020	1596	WESTECH INDUSTRIAL LTD	CA	T2H 1Z6	CALGARY	5636 BURBANK CRESCENT SE	AB	CAD	12,563.75
HRWC	2020	199	TERRA NOVA LANDSCAPING LTD	CA	B4B 1G7	BEDFORD	130 BLUEWATER ROAD	NS	CAD	12,520.44
HRWC	2020	2205	SOFTCHOICE LP	CA	L6M 2W1	OAKVILLE	105-1175 NORTH SERVICE RD WEST	ON	CAD	12,218.75
HRWC	2020	3097	PINCHIN LTD.	CA	L5N 7W5	MISSISSAUGA	2470 MILLTOWER COURT	ON	CAD	12,061.31
HRWC	2020	2624	EEP TECHNICAL SOLUTIONS INC.	CA	B3B 1N7	DARTMOUTH	97 SIMMONDS DR, BURNSIDE IND PRK	NS	CAD	11,792.04
HRWC	2020	2191	WIRE ROPE INDUSTRIES (ATLANTIC	CA	B3B 1S3	DARTMOUTH	84 THORNHILL DRIVE	NS	CAD	11,746.75
HRWC	2020	1996	WOOD WYANT	CA	B3B 1C9	DARTMOUTH	27 FIELDING AVENUE	NS	CAD	11,726.99
HRWC	2020	3513	NATURAL FORCES SOLAR INC	CA	B3T 3N4	HALIFAX	1205-1801 HOLLIS ST	NS	CAD	11,720.23
HRWC	2020	2592	SEASCAPE BUILDING MAINTENANCE	CA		MIDDLE SACKVILLE	515 LUCASVILLE ROAD UNIT 101	NS	CAD	11,574.75
HRWC	2020	3463	REFINED ROOFING	CA	B3K 3P8	HALIFAX	3675 ACADIA ST	NS	CAD	11,557.50
HRWC	2020	2397	LINKEDIN IRELAND	CA	M5E 0E9	TORONTO		ON	CAD	11,520.00
HRWC	2020	3287	3325398 NOVA SCOTIA LTD.	CA	B3K 4X8	HALIFAX	3770 KEMPT RD, SUITE 110	NS	CAD	11,500.00
HRWC	2020	3449	HALIFAX PARTNERSHIP	CA	B3J 0E9	HALIFAX	1675 GRAFTON ST - SUITE 701	NS	CAD	11,500.00
HRWC	2020	588	OSISOFT, INC.	CA	H3B 3K9	MONTREAL		QC	CAD	11,374.07
HRWC	2020	2142	KILDOON INTELLIGENCE INC	CA	B3P 2H5	HALIFAX	9 MELVIN RD	NS	CAD	11,333.25
HRWC	2020	2983	ERGOCENTRIC SEATING SYSTEMS IN	CA	L5T 2L6	MISSISSAUGA	275 SUPERIOR BLVD UNIT 2	ON	CAD	11,127.11
HRWC	2020	732	COASTAL RESTORATION & MASONRY	CA	B3T 1P3	GOODWOOD	8 MILLS DRIVE	NS	CAD	10,991.70
HRWC	2020	1984	MINISTER OF FINANCE	CA	B3B 1T3	DARTMOUTH	780 WINDMILL RD - 3RD FLOOR	NS	CAD	10,893.39
HRWC	2020	3167	ATLAS COPCO COMPRESSORS CANADA	CA	H4R 2P1	SAINT LAURENT	5060 LEVY	QC	CAD	10,739.66
HRWC	2020	2676	BLUE WATER AGENCIES LIMITED	CA	B3B 1L6	DARTMOUTH	40 TOPPLE DR	NS	CAD	10,700.68
HRWC	2020	1301	TRAILWALK HOLDINGS LTD	CA	B0N 2T0	WINDSOR	RR #1 391 WENTWORTH RD	NS	CAD	10,658.20
HRWC	2020	1288	THE SHAW GROUP LIMITED	CA	B2S 1M9	LANTZ	1101 HIGHWAY #2	NS	CAD	10,496.05
HRWC	2020	3568	JAMES HANNAM INC	CA	B3M 3B1	HALIFAX	12 KINGFISHER CRESCENT	NS	CAD	10,334.38
HRWC	2020	3549	VACUTRUX LTD	CA	N3B 2A1	ELMIRA	20 MARTINS LANE	ON	CAD	10,319.30
HRWC	2020	429	SSQ INSURANCE COMPANY INC	CA	H3A 2A5	MONTREAL	2020 UNIVERSITY AVE, SUITE 1800	QC	CAD	10,275.48
HRWC	2020	1352	PARKWAY AUTOMOTIVE SERVICES LT	CA	B2W 3T7	DARTMOUTH	676 MAIN STREET	NS	CAD	10,247.89
HRWC	2020	1862	ULINE	CA	L6Y 0N3	BRAMPTON	60 HEREFORD STREET	ON	CAD	10,233.53
HRWC	2020	446	ALL GLASS & UPHOLSTERY	CA	B3S 1C4	HALIFAX	55 MCQUADE LAKE CR	NS	CAD	10,197.05
HRWC	2020	1623	DOUG CLARKE AUTO BODY LTD	CA	B2R 1R9	WAVERLEY	2578 ROCKY LAKE DR	NS	CAD	10,183.91
HRWC	2020	1380	CANADAWIDE SCIENTIFIC LTD	CA	K1G 6B1	OTTAWA	2300 WALKLEY ROAD	ON	CAD	10,070.79
HRWC	2020	1863	E.B.M. TRUCK & TRAILER LIMITED	CA	B4C 3Z2	LOWER SACKVILLE	9 ESTATES ROAD	NS	CAD	10,046.50
HRWC	2020	3451	PROAX TECHNOLOGIES LTD	CA	H7P 0C9	LAVAL	3505 JOHN PRATT STREET	QC	CAD	10,010.50
HRWC	2020	1321	BLUEWAVE ENERGY INC (ULTRAMAR)	CA	B3J 0A5	DARTMOUTH	P O BOX 728, STN CENTRAL	NS	CAD	10,001.36
HRWC	2020	876	DISCOVERY CENTRE	CA	B3J 358	HALIFAX	1215 LOWER WATER ST	NS	CAD	10,000.00
HRWC	2020	3291	TTX CANADA INC	CA	N1T 1N6	CAMBRIDGE	150 WERLICH DR UNIT 5 & 6	ON	CAD	9,923.35
HRWC	2020	1669	AINSWORTH INC	CA	M4A 1X4	TORONTO	131 BERMONDSEY ROAD	ON	CAD	9,763.22
HRWC	2020	1467	ADVOCATE PRINTING & PUBL. CO.L	CA	B0K 1H0	PICTOU	181 BROWNS POINT RD	NS	CAD	9,597.41
HRWC	2020	2280	DIESEL AND AUTO ELECTRIC LIMIT	CA	B3B 1N7	DARTMOUTH	105 SIMMONDS DRIVE BURNSIDE PARK	NS	CAD	9,563.57
HRWC	2020	2661	PROPERTY VALUATION SERVICE COR	CA	B3B 2B4	DARTMOUTH	238A BROWNLOW AVE, SUITE 200	NS	CAD	9,417.12
HRWC	2020	2494	CROMER INDUSTRIES (1988) CORP.	CA	P2S 2W8	SEGUIN	160A HIGHWAY 141	ON	CAD	9,312.33
HRWC	2020	772	CORROSION SERVICE CO. LTD.	CA	L6C 3A1	MARKHAM	280 HILLMOUNT ROAD, UNIT 9	ON	CAD	9,307.64
HRWC	2020	35	DON BRENTON'S	CA	B3T 1L7	LAKESIDE	2 LAKESIDE PARK DRIVE, UNIT 12	NS	CAD	9,267.56
HRWC	2020	2710	PRINT 101 LTD	CA	B3K 5A8	HALIFAX	3667 STRAWBERRY HILL ST, UNIT 200	NS	CAD	9,249.02
HRWC	2020	1330	STELLAR INDUSTRIAL SALES LTD	CA	B3B 1B3	DARTMOUTH	520 WINDMILL RD	NS	CAD	9,217.24
HRWC	2020	2120	JAMES LEGGATE FORESTRY	CA	B0N 2L0	UPPER KENNETT COOK	6079 HIGHWAY 236 - RR #1	NS	CAD	9,131.00
HRWC	2020	1915	HAZMASTERS INC.	CA	B3B 1S1	DARTMOUTH	60 THORNHILL DRIVE, UNIT 5	NS	CAD	9,086.78
HRWC	2020	835	PACE PLUMBING & HEATING	CA	B3P 2C8	HALIFAX	34 WINCHESTER AVENUE	NS	CAD	9,026.99
HRWC	2020	149	KENT BUILDING SUPPLIES	CA	E2L 4G7	SAINT JOHN		NB	CAD	9,001.51
HRWC	2020	2844	SHAREGATE	CA	H3K 1G6	MONTREAL	1751 RICHARDSON ST, SUITE 5400	QC	CAD	8,883.24
HRWC	2020	2377	DAC INDUSTRIAL ENGINES	CA	B3B 1Z6	DARTMOUTH	10 PAYZANT AVE	NS	CAD	8,861.79
HRWC	2020	1665	MARITIME PRESSURE WORKS LTD	CA	B2Y 4K3	DARTMOUTH	41 ESTATES ROAD	NS	CAD	8,807.63
HRWC	2020	3534	E SOURCE	US	80301	Boulder	1745 38th Street	CO	CAD	8,362.66
HRWC	2020	2313	E.D. TECHNICAL SERVICES	CA	B0J 1J0	CHESTER	85 GRANITE ST	NS	CAD	8,325.43
HRWC	2020	641	UNITED RENTALS OF CANADA LTD.	CA	N2B 3G1	KITCHENER	36 CENTENNIAL ROAD	ON	CAD	8,295.69
HRWC	2020	1928	KNIGHTSBRIDGE ROBERTSON SURRET	CA	B3J 3T2	HALIFAX	5475 SPRING GARDEN ROAD, 6TH FLOOR	NS	CAD	8,050.00
HRWC	2020	1847	VERONICS INSTRUMENTS INC	CA	L8E 0C5	STONEY CREEK	1100 SOUTH SERVICE RD, SUITE #114	ON	CAD	7,990.20
HRWC	2020	3262	GEMTEC CONSULTING ENGINEERS &	CA	E3C 2E6	FREDERICTON	191 DOAK RD	NB	CAD	7,987.90
HRWC	2020	398	SHIRLEY SAMPSON	CA	B2W 1H1	DARTMOUTH	63 EVERETTE STREET	NS	CAD	7,925.60
HRWC	2020	328	CTH INSTRUMENTS LTD.	CA	B3B 1J4	DARTMOUTH	10 AKERLEY BLVD., SUITE 36	NS	CAD	7,900.50
HRWC	2020	3576	COMPUGEN INC	CA	L4S 0B8	RICHMOND HILL	100 VIA RENZO DR	ON	CAD	7,834.95
HRWC	2020	3461	CUES CANADA INC	CA	L4W 1P9	MISSISSAUGA	2-1675 SISMET RD	ON	CAD	7,789.61
HRWC	2020	2129	THE SALVATION ARMY	CA	B3K 3A9	HALIFAX	2044 GOTTINGEN ST	NS	CAD	7,750.00
HRWC	2020	3582	KOOLTRONIC	US	8534	PENNINGTON	30 PENNINGTON-HOPEWELL ROAD	NJ	CAD	7,746.69
HRWC	2020	769	BENTLEY SYSTEMS INC.	CA	M5L 1K1	TORONTO	PO BOX 3695 COMMERCE CRT POSTAL STA	ON	CAD	7,745.25


HALIFAX REGIONAL WATER COMMISSION
Reporting Periods - April to Oct 31, 2021

CoCd	Recon acct	Vendor	Name 1	Country	PostalCode	City	Street	Rg	Crcy	Purchasing
HRWC	2020	1746	BDI CANADA INC	CA	L5T 1K2	MISSISSAUGA	6235 TOMKEN ROAD	ON	CAD	7,658.09
HRWC	2020	44	TRANS WORLD DISTRIBUTING LTD.	CA	B3B 1K4	DARTMOUTH	9 WADDELL AVENUE	NS	CAD	7,619.95
HRWC	2020	3601	PRAXES EMERGENCY SPECIALISTS I	CA	B3K 1Z7	HALIFAX	5539B YOUNG STREET	NS	CAD	7,498.00
HRWC	2020	678	HURRICANE INDUSTRIAL EQUIPMENT	CA	B3B 1N4	DARTMOUTH	188 JOSEPH ZATZMAN DRIVE	NS	CAD	7,272.12
HRWC	2020	440	ANSWER 365	CA	B3K 4E5	HALIFAX	2829 AGRICOLA STREET	NS	CAD	7,255.49
HRWC	2020	1103	RORY MACNEIL	CA	B3K 5M1	HALIFAX		NS	CAD	7,143.90
HRWC	2020	3141	LZG CONTRACTING	CA	B0N 1P0	KENNETCOOK	6060 HIGHWAY 354	NS	CAD	7,015.00
HRWC	2020	3607	MELTWATER NEWS CANADA, INC	CA	M5H 1J9	TORONTO	150 KING ST. W, FLOOR 7	ON	CAD	6,911.50
HRWC	2020	1266	ALL-TECH ENVIROMENTAL SERVICE	CA	B4A 2Z5	BEDFORD	20 DUKE STREET, SUITE 109	NS	CAD	6,888.50
HRWC	2020	3593	PALADIN SECURITY GROUP LTD	CA	V5G 4W3	BURNABY	201-3001 WAYBURNE DRIVE	BC	CAD	6,842.50
HRWC	2020	3066	SCHOONER EXCAVATION LTD.	CA	B3T 1P3	GOODWOOD	8 MILLS DR	NS	CAD	6,785.00
HRWC	2020	1773	STEEL 'N MOTION INC	CA	B3V 1B9	HALIFAX	1922 OLD SAMBRO ROAD	NS	CAD	6,765.99
HRWC	2020	834	PETROMAX	CA	B3B 1E1	DARTMOUTH	16A FIELDING AVENUE	NS	CAD	6,722.80
HRWC	2020	833	CME-CANADIAN MARITIME ENGINEER	CA	B3B 1S3	DARTMOUTH	90 THORNHILL DRIVE	NS	CAD	6,613.14
HRWC	2020	1174	KEMPTON APPRAISALS LIMITED	CA	B2Y 1K8	DARTMOUTH	376 PORTLAND STREET	NS	CAD	6,325.00
HRWC	2020	1699	OFFICE-TEC ATLANTIC LTD	CA	B3L 4T7	HALIFAX	PO BOX 20222, BAYERS RPO	NS	CAD	6,210.00
HRWC	2020	1164	NATIONAL LIFE SUPPORT	CA	B3M 4H4	HALIFAX		NS	CAD	6,174.00
HRWC	2020	2717	BOOMER TECHNICAL RESOURCES LTD	CA	B3B 1R6	DARTMOUTH	34 TRIDER CRES	NS	CAD	6,164.00
HRWC	2020	2600	JOHNSON CONTROLS	CA	B4A 2T3	BEDFORD	275 ROCKY LAKE DRIVE, SUITE 20	NS	CAD	6,077.92
HRWC	2020	1757	HARRIS INDUSTRIAL TESTING SERV	CA	B2R 1P4	WAVERLEY	21 OLD COBEQUID ROAD	NS	CAD	6,037.50
HRWC	2020	2760	BRAND SFAWAY ACCESS INC	CA	N6M 1A1	LONDON	318 NEPTUNE CRESCENT UNIT 5	ON	CAD	5,970.50
HRWC	2020	3292	EAST COAST MOBILE MEDICAL	CA	B3B 1S8	DARTMOUTH	101 LISLEY AVE, SUITE 1	NS	CAD	5,939.75
HRWC	2020	3580	IBI GROUP PROFESSIONAL SERVICE	CA	M4V 2Y7	TORONTO	55 ST. CLAIR AVENUE WEST	NS	CAD	5,922.50
HRWC	2020	1542	FOWLER BAULD & MITCHELL	CA	B3J 1V7	HALIFAX	H51-1600 HOLLIS ST	NS	CAD	5,896.63
HRWC	2020	3596	ST NICHOLAS ANGLICAN CHURCH	CA	B3Z 1H4	UPPER TANTALLON	29 WESTWOOD HILLS	NS	CAD	5,855.84
HRWC	2020	2090	EXELE INFORMATION SYSTEMS INC	US	14445-2201	EAST ROCHESTER	445 W. COMMERCIAL ST	NY	CAD	5,706.06
HRWC	2020	2444	TRANSPARA	US	85087	PHOENIX	4715 WEST CULPEPPER DR	AZ	CAD	5,683.04
HRWC	2020	449	THOMPSON CONN. LTD.	CA	B3L 4P8	HALIFAX	6169 QUINPOOL ROAD	NS	CAD	5,577.50
HRWC	2020	3337	MALVERN PANALYTICAL	CA	M5W 1C1	TORONTO		ON	CAD	5,531.50
HRWC	2020	3403	KELLY PEREIRA	CA	B3K 5M1	HALIFAX	450 COWIE HIL RD	NS	CAD	5,461.76
HRWC	2020	1704	WEED MAN (PLANTATION HOLDINGS	CA	B3B 1R6	DARTMOUTH	60 TRIDER CRESCENT	NS	CAD	5,399.25
HRWC	2020	881	FRANK HORNE AUTO BODY	CA	B3G 1H9	EASTERN PASSAGE	2011 CALDWELL ROAD	NS	CAD	5,285.00
HRWC	2020	2863	METRO LINE-X	CA	B3K 4P3	HALIFAX	2823 ROBE ST	NS	CAD	5,203.75
HRWC	2020	1556	SVM SERVICES/ACE PEST CONTROL	CA	B3B 0M4	DARTMOUTH	204 BROWNLOW AVE, UNIT 155	NS	CAD	5,195.70
HRWC	2020	1705	CUSTOM PROTECT EAR INC.	CA	V3S 9E9	SURREY	#681-7789 134TH STREET	BC	CAD	5,189.79
HRWC	2020	3470	QRA CONSULTING INC	CA	B3K 1L3	HALIFAX	101-6080 YOUNG ST	NS	CAD	5,175.00
HRWC	2020	3490	SCOTIA TIRE - ANDY'S TIRE - A1	CA	B3T 1A2	LAKESIDE	12 DOMINION CRES	NS	CAD	5,135.53
HRWC	2020	1343	GROUPLINK CORPORATION	US	84010-8172	BOUNTIFUL	563 W 500 S, SUITE 400	UT	CAD	5,095.07
HRWC	2020	947	GRAFFITI GONE	CA	B3N 1B2	HALIFAX	60 WITHROD DRIVE	NS	CAD	5,060.00
HRWC	2020	2236	CARVERY'S CONSTRUCTION LTD	CA	B3B 1H7	DARTMOUTH	6 RALSTON AVE	NS	CAD	5,035.74
			Total Spend greater than \$5,000							73,858,439.95
			Total Spend less than \$5,000							529,927.90
										74,388,367.85

TO: Becky Kent, B.A., Chair and Members of the Halifax Regional Water Commission Board as Trustees of the Halifax Regional Water Commission Employees' Pension Plan

SUBMITTED BY:  Digitally signed by Louis de Montbrun
Date: 2021.11.19 12:57:42 -04'00'

Louis de Montbrun, CPA, CA,
Director, Corporate Services/ CFO

APPROVED:  Digitally signed by Cathie O'Toole
Date: 2021.11.19 12:44:20 -04'00'

Cathie O'Toole, MBA, FCPA, FCGA, ICD.D,
General Manager

DATE: November 10, 2021

SUBJECT: **Proposed 2022 Halifax Regional Water Commission Employees' Pension Plan Budget**

ORIGIN

The Halifax Regional Water Commission Board (the "Board") are the Trustees of the Halifax Water Employees' Pension Plan (the "Plan") and approve the annual budget of the Plan.

RECOMMENDATION

It is recommended the Board approve the proposed 2022 budget for the Plan covering the period January 1, 2022 to December 31, 2022.

BACKGROUND

The purpose of the 2022 budget, as reported in the attached statement of changes in net assets available for benefits, outlines the various revenues, contributions and expenses of the defined benefit pension plan established for the employees of the Halifax Regional Water Commission ("Halifax Water"). Supplemental plans, namely the defined contribution plan and notional retirement compensation agreements are not reported, since budget implications related to these plans are included in the annual operating budget of Halifax Water.

DISCUSSION

The attached statement of changes in net assets available for benefits provides a comparison between the proposed 2022 budget, the approved 2021 budget, and the year-end audited results for 2020.

As reported in the attachment, for 2022 the net assets available for benefits are projected to increase by \$16.2 million compared to the budget of \$9.8 million in 2021, and the actual increase of \$13.4 million in 2020. This increase is driven by favourable results anticipated related to revenues and contributions, net of expenses.

Revenue:

Total revenue for 2022 is budgeted at \$15.2 million, representing a \$6.6 million or 77.2% increase compared to the budget for 2021, and a \$3.0 million or 24.6% increase compared to actual results for 2020. Revenue is derived from two (2) primary sources:

- Investment income, and
- Increase in the fair value of investment assets.

The greatest impact in 2022 affecting revenue compared with 2021 relates to the projected increase in the fair value of investment assets of \$12.0 million. In 2021, the increase was budgeted at \$5.1 million, and for 2020 the reported increase in the fair value of investment assets was \$8.6 million. Changes in the fair value of investment assets tend to be more volatile compared to investment income. Increases over the past 5 years have varied dramatically, going from a high of \$10.6 million in 2019 to a low \$1.8 million in 2018. Results for 2021 show the fair value of investment assets have increased \$8.5 million for the nine (9) month period ending September 30, 2021 compared to a pro-rated budget of \$3.8 million.

Investment income has been consistent historically, averaging \$3.4 million during the 3-year period 2018-2020. Results for 2021 show investment income tracking at \$2.4 million for the nine (9) month period ending September 30, 2021. Investment income budgeted in 2022 of \$3.4 million represents a \$0.3 million decrease compared to the 2021 budget and a decrease of \$0.4 million compared to the actual results in 2020. Investment income budgeted for 2022 is based on the continued favourable results of the Halifax Regional Municipality Master Trust (the “Master Trust”). For the twelve (12) month period ending June 30, 2021 the Master Trust earned a return of 13.9%.

Key assumptions:

- Investment Income
 - ❖ Based on average of 2018 - 2021 (using extrapolated results for 2021)
- Increase in the fair market of investment assets
 - ❖ Based on extrapolated results for 2021, plus an estimated 5% growth factor

Contributions:

Contributions are budgeted at \$7.0 million in 2022, representing an increase of \$0.3 million or 4.3% compared to the budget for 2021, and an increase of \$0.5 million or 7.7% compared to 2020. The increase is attributed to projected new hires during the year, normal salary/wage increases, and movement of personnel within salary bands.

Key assumptions:

- Projected 20 new hires driven by the need to increase capacity to deliver capital projects to meet the Integrated Resource Plan level of spend, regulatory direction and expectations of the Nova Scotia Utility and Review Board with respect to some projects and programs in 2022/23, and increasing assets and customers caused by growth within the municipality. (As the Halifax Water budget has not been approved, the number of new hires may vary.)
- Salary/ wage escalations
 - ❖ Non-union – based on projected 2.0% increase. (Conservative estimate of increase resulting from periodic market survey as per Halifax Water’s Policy # NU1 – Compensation Policy – Non-Union Employees)
 - ❖ Union – based on respective collective agreements
- Pensionable earnings capped at \$140,945 (until 2023)
- No change to current contribution rate of 10.34%. (Contributions rates may need to be adjusted based on the results of the Actuarial Valuation to be conducted early in 2022.)

Expenses:

Expenses of \$6.0 million are budgeted for 2022, an increase of \$0.5 million or 9.0% compared to the budget for 2021, and an increase of \$0.6 million or 12.0% compared to 2020.

Benefit and Termination payments are the main driver of total expenses, and consist of:

1. Benefits payments to pensioners and survivors,
2. Termination payments, and
3. Pre-retirement Death benefit payments.

Benefits paid to pensioners and survivors increase annually as employees retire from Halifax Water, and as a result of indexation provided in the Plan. For 2022, budgeted payments to pensioners increase from \$4.9 million in 2021 to \$5.1 million based on projected retirements and indexation.

Termination payments are difficult to predict. In 2020, termination payments were \$0.7 million. Unaudited results for the nine (9) month period ending September 30, 2021 total \$0.7 million compared to an annual budget of \$0.5 million. For 2022, the budget has been increased \$0.2 million to a level within the range of the average paid out over the past five (5) years. With the increase in the number of employees and Halifax Water’s increased focus on performance management, it is expected that termination benefits would continue to increase year over year.

Administrative expenses account for approximately 4.0% of the overall budgeted expenses. For 2022, total administrative expenses are \$0.2 million, which are higher than 2021 and 2020 due to the costs associated with the Actuarial Valuation to take place in 2022. Actuarial and consulting fees represent the largest expense within the administrative grouping.

Key Assumptions:

- Indexing – based on 2.0% and 1.0% estimates; pre-2016 benefits earned are indexed at CPI to a maximum of 2% while post-2015 benefits are indexed at CPI to a maximum of 1%.
- Projected 9 new retirements – based on 6-year average and consideration of retirement eligibility.
- Termination payments
 - ❖ Based on 5-year historical average, and annualization of 2021 actuals
- Assume no pre-retirement death benefit payments for 2022

ATTACHMENT

Proposed 2022 Halifax Regional Water Commission Employees' Pension Plan Budget

Report Prepared by:

**Heather
Britten**

Digitally signed by
Heather Britten
Date: 2021.11.19
12:51:06 -04'00'

Heather Britten, B.Comm,
Quality Assurance Officer (902) 490-1895

Item 4.2

Halifax Water Board


November 25, 2021

Attachment


Halifax Regional Water Commission Employees' Pension Plan Statement of changes in net assets available for benefits January 1, 2022 to December 31, 2022

	Actual (Audited) 2020	Approved Budget 2021	Proposed Budget 2022
Revenue			
Net investment income:			
Total investment income	\$3,763,614	\$3,700,000	\$3,400,000
Investment manager fees	(\$194,968)	(\$220,000)	(\$200,000)
Increase in the fair value of investment assets	\$8,630,589	\$5,100,000	\$12,000,000
	<u>\$12,199,235</u>	<u>\$8,580,000</u>	<u>\$15,200,000</u>
Contributions			
Participants:			
Current service (includes additional voluntary contributions)	\$3,310,113	\$3,417,000	\$3,569,500
Sponsors:			
Current service	\$3,230,131	\$3,332,000	\$3,472,000
	<u>\$6,540,244</u>	<u>\$6,749,000</u>	<u>\$7,041,500</u>
Expenses			
Benefit payments:			
Benefit payments	\$4,552,474	\$4,866,000	\$5,071,000
Termination payments	\$677,237	\$500,000	\$700,000
	<u>\$5,229,710</u>	<u>\$5,366,000</u>	<u>\$5,771,000</u>
Administrative:			
Actuarial and consulting fees	\$42,143	\$55,000	\$130,000
Audit and accounting fees	\$8,648	\$9,000	\$9,000
Bank custodian fees	\$30,479	\$30,000	\$30,450
Insurance	\$9,636	\$9,000	\$9,700
Miscellaneous	\$16,724	\$20,000	\$22,050
Professional fees	\$23,151	\$20,000	\$33,000
Registration fees	\$2,645	\$3,000	\$2,940
Training (Trustees/ Administration/ Pension Committee)	\$0	\$2,000	\$1,000
	<u>\$5,363,136</u>	<u>\$5,514,000</u>	<u>\$6,009,140</u>
Increase in net assets available for benefits	<u><u>\$13,376,343</u></u>	<u><u>\$9,815,000</u></u>	<u><u>\$16,232,360</u></u>

TO: Becky Kent, B.A., Chair, and Members of the Halifax Regional Water Commission Board as Trustees of the Halifax Regional Water Commission Employees' Pension Plan

SUBMITTED BY:  Digitally signed by Louis de Montbrun
Date: 2021.11.19 11:14:10 -04'00'

Louis de Montbrun, CPA, CA
Director, Corporate Services/ CFO

APPROVED:  Digitally signed by Cathie O'Toole
Date: 2021.11.19 10:56:32 -04'00'

Cathie O'Toole, MBA, FCPA, FCGA, ICD.D
General Manager

DATE: November 17, 2021

SUBJECT: **Halifax Regional Water Commission Employees' Pension Plan
Proposed Actuarial Valuation Assumptions – January 1, 2022**

ORIGIN

Nova Scotia Pension Benefits Act

RECOMMENDATION

It is recommended the Halifax Regional Water Commission Board (the "Board") approve the attached proposed actuarial valuation assumptions in principle, to be used in conducting the January 1, 2022 actuarial valuation of the Halifax Regional Water Commission Employees' Pension Plan (the "Plan").

BACKGROUND

Section 53(1) of the Nova Scotia Pension Benefits Regulations requires defined benefit pension plans to file an actuarial valuation report every three years.

DISCUSSION

The Board, as Trustees of the Plan, are required to approve the assumptions to be used for an actuarial valuation, the results of which are used to determine funding requirements for the Plan and current service costs.

The Plan was re-designed January 1, 2016 with a view to improve its financial position as measured through the actuarial valuations. The actuarial valuation performed January 1, 2019 resulted in the Plan reporting a going concern excess or surplus of \$2.1 million, compared to an unfunded liability or deficit of \$7.6 million reported in the January 1, 2016 actuarial valuation.

	January 1, 2019	January 1, 2016	January 1, 2014
Going Concern	\$2,057,700	(\$7,620,900)	(\$27,110,200)
Solvency	(\$3,502,200)	(\$2,504,400)	\$9,962,800
Minimum Total Special Payments	\$0	\$825,200	\$2,952,200
Employee Contribution Rate	10.34%	10.65%	12.95%
Total Employer Contribution (including current service cost & special payments)	10.34% or \$2,908,100	13.29% of payroll or \$3,188,600	27.40% of payroll or \$5,873,600

The Plan received a solvency funding exemption effective June 1, 2015 however the calculation of the solvency ratio is still relevant. Under Nova Scotia pension legislation, should the solvency ratio fall below the 85% threshold, the Plan would be required to file a valuation within one (1) year, rather than the usual three (3) year period. The solvency ratio for the Plan as at January 1, 2019 was 97.3%, resulting in the next valuation at January 1, 2022.

In the interim period since January 1 2019, extrapolations were performed as at December 31, 2019 and December 31, 2020, resulting in excesses or surpluses of \$8.7 million and \$13.2 million respectively. Investment performance of the Halifax Regional Municipality (HRM) Master Trust has been strong, with a net fund rate of return in 2019 of 10.7%, and 7.6% in 2020. For the 9-month period ended September 30, 2021, the net fund rate of return is tracking at 6.9%.

If the January 1, 2022 Actuarial Valuation results in the plan having a going concern funded ratio of 108% and no solvency deficit; it may trigger additional conditional indexation (to a maximum of an additional 1%) as long as it can be affected while maintaining a going concern funded ratio of 108%.

The Maximum Earnings Base was frozen in 2016 for 8 years at the 2015 level, and will begin to index at the rate of 1% in 2023.

Halifax Water's actuary, Eckler, have identified the proposed actuarial valuation assumptions to be used for January 1, 2022, a summary of which has been attached, along with a comparison to the actuarial valuation assumptions used in January 1, 2019. Proposed changes in assumptions from the prior actuarial valuation have been highlighted for ease of reference, and are discussed below.

Interest (discount rate):

This assumption will not be known until mid-December 2021, when capital market assumptions are finalized for January 1, 2022 actuarial valuations. The January 1, 2019 assumption contained some conservatism however, under the new Nova Scotia Funding Regulations, conservatism will be removed from the interest rate assumption and replaced with an explicit Provision for Adverse Deviation (PfAD). This will require the Plan to fund to a level greater than 100%, with the actual level based on the most recent asset mix of the HRM Master Trust.

The actuary has performed initial tests on the sensitivity of valuation results respecting discount rate changes and found that with a 0.1% increase in the discount rate, Plan liabilities would go down by approximately 1.6%. Based on the most recent HRM Master Trust asset mix, a PfAD requirement of 7% is expected under the new Regulations, which means the Plan would have to fund to a level of 107%. As an example, increasing the discount rate from the 5.8% per annum used in the January 1, 2019 actuarial valuation to 6.25% per annum would result in an approximate 7% decrease in Plan liabilities, which effectively offsets the new 7% PfAD requirement.

The preliminary expectation is a discount rate of close to 6.25% per annum for the January 1, 2022 actuarial valuation can be supported however, as noted above, that will not be known with certainty until mid-December 2021.

Percentage married:

This assumption has been changed to align with recent experience of the Plan, along with other similar plans. Changing this assumption will result in a minimal improvement in the actuarial valuation results.

Interest on contributions:

This assumption has been changed to reflect the expected crediting rate. The Plan requires that interest with respect to required contributions shall not be less than the minimum rate prescribed by the Pension Benefits Act of Nova Scotia which is the average yield of 5-year personal fixed term chartered bank deposit rates (CANSIM B 14045) over the past year. The B 14045 rate, which can be thought of as a 5-year GIC rate, has been averaging just over 1% during the past 5 years. The proposed rate of 2.5% per annum is higher than what this rate has been in recent years, and reflects an expectation that interest rates will rise in the future. The impact of changing this assumption on the actuarial valuation results will be immaterial.

Post-retirement mortality:

This change represents a move to use the same mortality table used by the HRM Pension Plan, and align better with the demographics of the Plan's membership. Mortality gains revealed in the January 1, 2016 and January 1, 2019 valuations support this change however, additional analysis will be performed once the January 1, 2022 data has received, to further confirm and validate support for the change. Changing this assumption could potentially result in a reduction in liabilities and current service costs of between 1.1% and 1.4%.

The proposed changes in the actuarial valuation assumptions are not expected to have a significant impact on the actuarial valuation results. Other factors that impact actuarial results include the

Plan's experience, where gains or losses could be realized when comparing actual to expected results based on the January 1, 2019 actuarial valuation assumptions. Experience measurements will not be known, and cannot be determined until the January 1, 2022 data has been received and analyzed.

ATTACHMENT

Halifax Regional Water Commission Employees' Pension Plan - Proposed Actuarial Valuation Assumptions, January 1, 2022

Report Prepared by:



Digitally signed by Allan
Campbell
Date: 2021.11.19
11:12:16 -04'00'


Allan Campbell, CPA, CMA
Manager, Finance (902) 266-8655


Halifax Regional Water Commission Employees' Pension Plan - Proposed Actuarial Valuation Assumptions, January 1, 2022		
Assumption	Actuarial Valuation Assumptions January 1, 2019 - Going Concern	Actuarial Valuation Assumptions Proposed January 1, 2022 - Going Concern
Interest (discount rate)	5.80% pre-retirement 3.80% post-retirement for service up to January 1, 2016 4.80% post-retirement for service after December 31, 2015	To be determined (TBD)
Retirement age	40% at age 65, 60% at Rule of 85	40% at age 65, 60% at Rule of 85
Withdrawals	None	None
Salary scale	3.90% per annum	3.90% per annum
Maximum pension	For service up to January 1, 2016: \$3,025.56 in 2019 ¹ For service after December 31, 2015: \$2,818.89 in 2019 ¹	For service up to January 1, 2016: \$3,420.00 in 2022 ¹ For service after December 31, 2015: \$2,818.89 in 2019 ¹
Increase in maximum pension	For service up to January 1, 2016: 3.00% per annum after 2019 For service after December 31, 2015: 0.00% per annum in 2019-2023, 1.00% per annum thereafter	For service up to January 1, 2016: 3.00% per annum after 2022 For service after December 31, 2015: 0.00% per annum in 2019-2023, 1.00% per annum thereafter
Percentage married	100%	85%
Interest on contributions	4.00% per annum	2.50% per annum
Spouse's age	Males 3 years older	Males 3 years older
Pre-retirement mortality	None	None
Post-retirement mortality	CPM-2014 Combined with Scale CPM-B Improvements	CPM-2014 Private with Scale CPM-B Improvements
Funding method	Projected Unit Credit	Projected Unit Credit

¹ In accordance with Amendment #10, the Plan's maximum pension in respect of service prior to January 1, 2016 is equal to the defined benefit limit as prescribed by the Income Tax Act, and the maximum pension in respect of service after December 31, 2015 is equal to the defined benefit limit as prescribed by the Income Tax Act, subject to a maximum of \$2,818.89 in years 2016 through 2023, increasing by 1% per annum in years thereafter.


TO: Becky Kent, B.A., Chair, and Members of the Halifax Regional Water Commission Board

SUBMITTED BY:


Digitally signed by Reid Campbell
Date: 2021.11.19 11:59:41 -04'00'
Reid Campbell, M.Eng., P.Eng.
Director, Engineering and Technology Services


Digitally signed by Louis de Montbrun
Date: 2021.11.19 11:12:28 -04'00'
Louis de Montbrun, CPA, CA
Director, Corporate Services/CFO

APPROVED:


Digitally signed by Cathie O'Toole
Date: 2021.11.19 11:46:30 -04'00'
Cathie O'Toole, MBA, FCPA, FCGA, ICD.D
General Manager

DATE: November 19, 2021

SUBJECT: Capital Expenditures for the Seven Months Ended October 31, 2021

ORIGIN

The Corporate Balanced Scorecard identifies the percentage of capital budget spent by the end of the fiscal year as a critical success factor and sets a target of 70-80%.

BACKGROUND

The Halifax Regional Water Commission (Halifax Water) Board is required to review periodic financial information throughout the year. Halifax Water's 2019 *Integrated Resource Plan* (IRP) identifies a 30-year capital investment plan valued at \$2.7 Billion (net present value). In relation to the IRP, the capital budget program focuses on providing required infrastructure for asset renewal, regulatory compliance, and growth. The IRP calls for delivery of an average of \$135 million dollars in capital projects per year. Halifax Water's annual capital budget, and capability to deliver capital projects, has not yet reached this level.

DISCUSSION

Below is the breakdown by asset class and project status of the expenditures for the seven (7) months ending October 31, 2021. Last year Halifax Water delivered 30.78% of the budgeted capital spend for 2020/21 by end of fiscal year. Based on the 7 months ending October 31, 2021 results shown below, Halifax Water is projecting a similar result for this year. There are several significant projects in this year's capital budget

ITEM # 5

Halifax Water Board

November 25, 2021

for which construction has been delayed or extended into the next construction season for reasons including, construction market conditions, land acquisition, planning consideration or issues that arose during the planning phase which required a scope change.

Capital Expenditure Report

Budget Category	Total Budget Available	Expenditures to March 31, 2021	Expenditures April 1, 2021 to October 31, 2021	Total Expenditures to October 31, 2021	Remaining Budget Available as of October 31, 2021	Total Expenditures to October 31, 2021 as a Percentage of Total Budget Available
Active						
Water	\$ 92,179,298	\$ 15,284,383	\$ 12,962,421	\$ 28,246,804	\$ 63,932,494	30.6%
Wastewater	104,030,866	15,362,506	9,291,762	24,654,268	79,376,598	23.7%
Stormwater	16,330,015	1,272,709	2,852,440	4,125,149	12,204,866	25.3%
	212,540,179	31,919,598	25,106,623	57,026,221	155,513,958	26.8%
Pending						
Water	20,332,440	28,057	169	28,226	20,304,214	0.1%
Wastewater	29,158,000	-	-	-	29,158,000	0.0%
Stormwater	784,238	(227)	-	(227)	784,465	0.0%
	50,274,678	27,830	169	27,999	50,246,679	0.1%
Closed						
Water	936,196	-	-	-	936,196	0.0%
Wastewater	5,722,430	-	-	-	5,722,430	0.0%
Stormwater	1,899,800	-	-	-	1,899,800	0.0%
	8,558,426	-	-	-	8,558,426	0.0%
	\$ 271,373,283	\$ 31,947,428	\$ 25,106,792	\$ 57,054,220	\$ 214,319,063	21.0%

The Total Budget Available of \$271.4 million represents total approved budgets for pending, active, and closed projects as at the end of October 31, 2021.

Total Expenditures to October 31, 2021 of \$57.1 million include expenditures of \$31.9 million incurred prior to April 1, 2021 and expenditures of \$25.1 million in the current fiscal year. This results in a Remaining Budget Available as of October 31, 2021 of \$214.3 million.

Project Managers are currently working on updating forecasted total expenditures to the end of the 2021/22 fiscal year and to the end of each project.

In the Pending project category, there is \$28.4 million that has been deferred or cancelled. In addition, there is \$18.2 million that has been made available from surpluses on closed projects, of which \$7.5 million has been allocated to projects in the current fiscal year. This funding is available to be reallocated to existing projects, if required, or used to fund future capital budgets.

As projects are completed, they will be moved to the closed category. No projects have yet been closed in this fiscal year, most are closed in the last quarter of the fiscal year.

ATTACHMENT

Capital Expenditure Report October 31, 2021

Report prepared by:

**Alicia
Scallion**

Digitally signed by Alicia
Scallion
Date: 2021.11.19
11:33:47 -04'00'

Alicia Scallion, CPA, CA, Manager, Accounting, (902)-497-9785

Capital Expenditure Report
For the Period Ending October 31/21

Status	Service	Asset Category	Total Budget Available	Expenditures to March 31, 2021	Expenditures April 1, 2021 to October 31, 2021	Total Expenditures to October 31, 2021	Remaining Budget Available as of October 31, 2021
Active	W	Water - Land	315,000	44,449	-	44,449	270,551
		Water - Transmission	6,087,468	847,269	1,290,199	2,137,467	3,950,001
		Water - Distribution	10,267,651	1,283,723	2,020,681	3,304,403	6,963,248
		Water - Energy	200,000	-	-	-	200,000
		Water - Structures	15,935,000	4,581,180	3,186,878	7,768,058	8,166,942
		Water - Treatment Facilities	9,439,000	167,819	453,159	620,977	8,818,023
		Water - Security	50,000	14,010	49,402	63,412	(13,412)
		Water - Equipment	13,053,000	1,676,444	1,091,662	2,768,106	10,284,894
		Water - Corporate Projects	36,832,178	6,669,490	4,870,441	11,539,931	25,292,248
	W Total		92,179,298	15,284,383	12,962,421	28,246,804	63,932,494
	WW	Wastewater - Trunk Sewers	17,725,000	19,020	14,784	33,804	17,691,196
		Wastewater - Collection System	42,000,337	9,706,057	2,214,333	11,920,390	30,079,947
		Wastewater - Force mains	3,110,000	94,869	1,059,316	1,154,185	1,955,815
		Wastewater - Structures	15,129,527	3,017,141	2,129,478	5,146,619	9,982,908
		Wastewater - Treatment Facility	16,632,774	2,178,094	2,639,932	4,818,026	11,814,748
		Wastewater - Energy	739,000	56,265	3,324	59,589	679,411
		Wastewater - Security	200,000	902	95,663	96,565	103,435
		Wastewater - Equipment	460,000	49,397	21,233	70,630	389,370
		Wastewater - Corporate Projects	7,989,228	202,972	1,113,699	1,316,671	6,672,557
		Wastewater - Unregulated	45,000	37,788	-	37,788	7,212
	WW Total		104,030,866	15,362,506	9,291,762	24,654,268	79,376,598
	SW	Stormwater - Pipes	4,989,000	204,807	225,634	430,441	4,558,559
		Stormwater - Culverts/Ditches	4,687,000	644,470	1,169,564	1,814,034	2,872,966
		Stormwater - Structures	6,593,000	73,821	1,387,391	1,461,212	5,131,788
		Stormwater - Corporate Projects	61,015	349,611	69,851	419,462	(358,447)
	SW Total		16,330,015	1,272,709	2,852,440	4,125,149	12,204,866
Active Total			212,540,179	31,919,598	25,106,623	57,026,221	155,513,958
Pending	W	Water - Land	580,000	-	-	-	580,000
		Water - Transmission	3,912,400	-	-	-	3,912,400
		Water - Distribution	275,000	169	169	338	274,662
		Water - Energy	455,000	-	-	-	455,000
		Water - Structures	2,300,000	-	-	-	2,300,000
		Water - Treatment Facilities	8,244,000	-	-	-	8,244,000
		Water - Corporate Projects	4,566,040	27,888	-	27,888	4,538,152
	W Total		20,332,440	28,057	169	28,226	20,304,214
	WW	Wastewater - Collection System	7,531,000	-	-	-	7,531,000
		Wastewater - Force mains	60,000	-	-	-	60,000
		Wastewater - Structures	10,674,000	-	-	-	10,674,000
		Wastewater - Treatment Facility	8,975,500	-	-	-	8,975,500
		Wastewater - Energy	1,662,500	-	-	-	1,662,500
		Wastewater - Security	100,000	-	-	-	100,000
		Wastewater - Equipment	150,000	-	-	-	150,000
		Wastewater - Corporate Projects	5,000	-	-	-	5,000
	WW Total		29,158,000	-	-	-	29,158,000
	SW	Stormwater - Pipes	381,238	(227)	-	(227)	381,465
		Stormwater - Culverts/Ditches	280,000	-	-	-	280,000
		Stormwater - Structures	93,000	-	-	-	93,000
		Stormwater - Corporate Projects	30,000	-	-	-	30,000
	SW Total		784,238	(227)	-	(227)	784,465
Pending Total			50,274,678	27,830	169	27,999	50,246,679
Grand Total			262,814,857	31,947,428	25,106,792	57,054,221	205,760,637



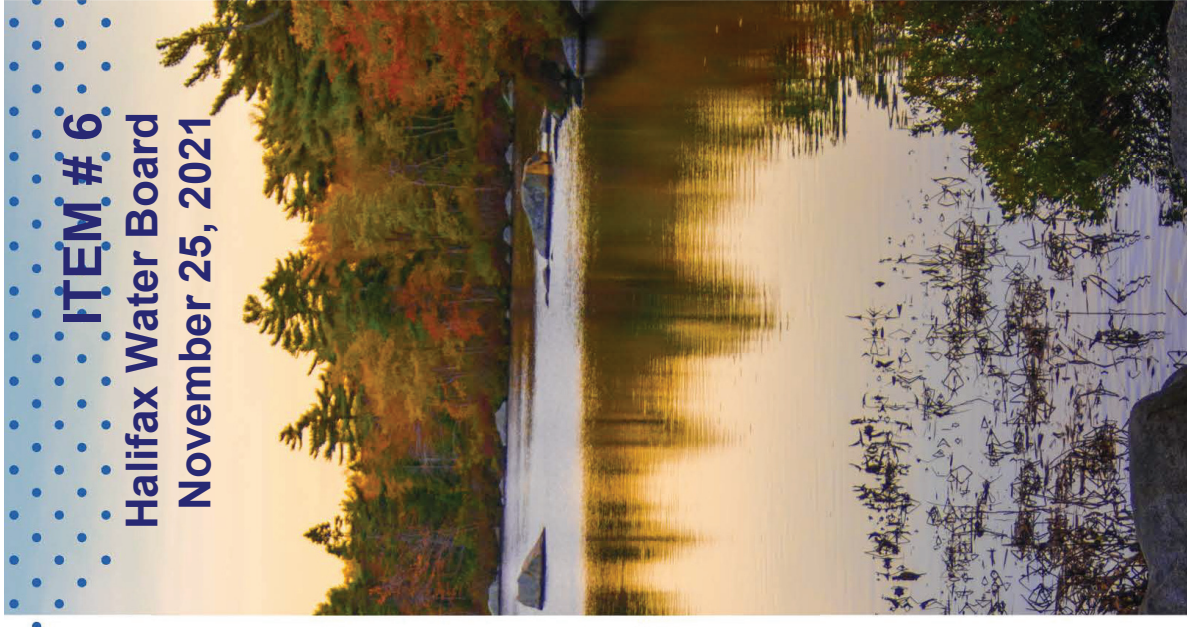
ITEM # 6
Halifax Water Board
November 25, 2021

Water Quality Master Planning – Moving towards A Water Safety Plan

Wendy Krkosek, Water Quality Manager

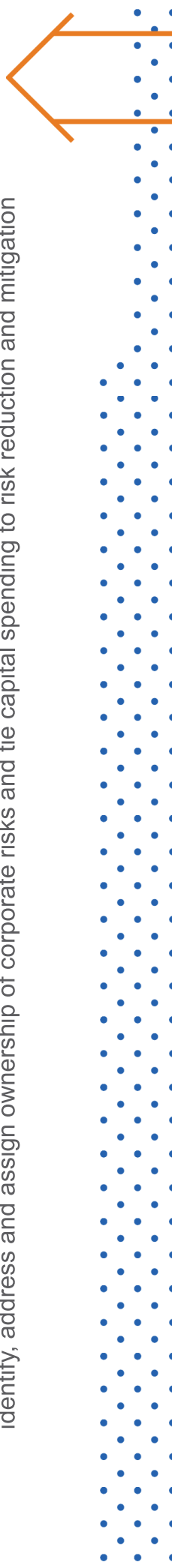
November 27, 2021

**STRAIGHT from
the SOURCE**



Definitions

- **Water Quality Master Plan** - examines water quality regulations and trends and makes reasonable estimations of what future regulations will be and allows the utility to set long term water quality goals. Doing so allows the utility time to select the most cost-effective response to future regulations and to plan for the required capital expenditures. (HDR HRWC WQMP V1.0)
- **Water Safety Plan** WSPs are a comprehensive risk assessment and risk management approach from catchment to consumer, with the aim of consistently ensuring the safety and acceptability of a drinking-water supply (World Health Organization)
- **System Assessment Report** Regulatory requirement to submit a report every ten years, with the next set due April 1, 2023. Purpose of the system Assessment Report is to verify that municipal drinking water systems meet:
 - Current environmental standards, which are frequently updated and enhanced for public health protection;
 - The minimum requirements set out in the Nova Scotia Treatment Standards for Municipal Drinking Water Systems
 - Source to tap assessment of compliance and risks
- **Enterprise Risk Management** – System adopted by Halifax Water in 2020 to create a risk register to identify and prioritize corporate risks, includes development of risk appetite and risk and Board reporting requirements for top tier risks. System aids in prioritizing mitigation actions for risk outside of the organizations risk appetite. Goal of ERM is to identify, address and assign ownership of corporate risks and tie capital spending to risk reduction and mitigation



History of WQMP

- Version 1 – 2006
 - Completed by to provide optimization plan for JDK treatment plant
 - Led to creation of the NSERC/Halifax Water Industrial Research Chair and construction of the pilot plant at JDK
 - Major outcomes: Coagulation evaluation, corrosion control
- Version 2 – 2011
 - Written by Water Quality Manager – JDK specific
 - Research execution by Dal through second 5-year Chair term
 - Major outcomes: Corrosion control, flocculation hydraulics, reduction in DBPs: biofiltration
- Version 3 – 2016
 - Written by Water Quality Manager – Not plant specific, included source, treatment and distribution
 - Research execution by Dal through third 5-year Chair term
 - Major outcomes: Lake Recovery, Corrosion control, JDK interim optimization

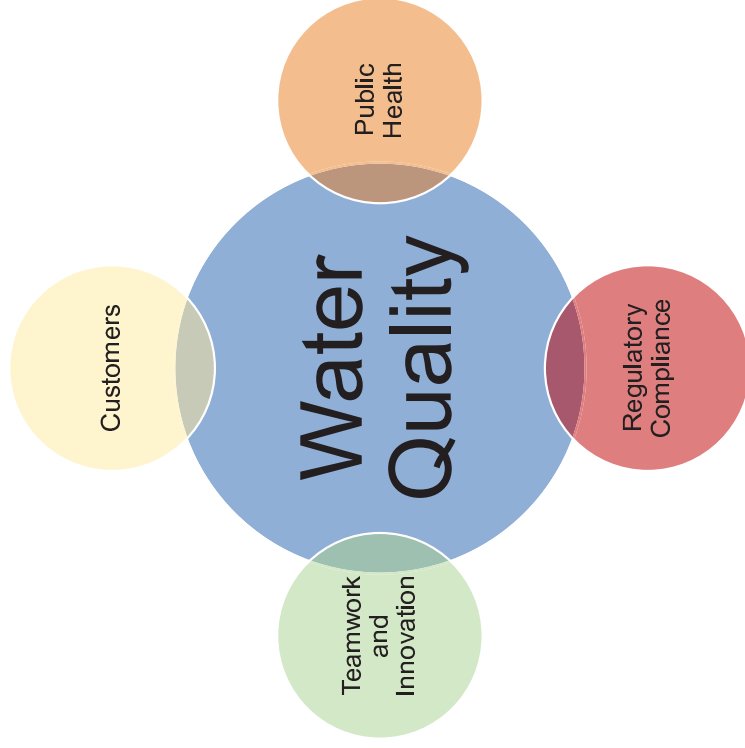


Changing Environment

- The regulatory environment is continually evolving.
 - More and stricter regulations with more focus on at the tap water quality
 - Lead, manganese, aluminum, algal toxins, disinfection byproducts
- Halifax Water – the One Water approach
 - Breaking down silos, transferring knowledge and sharing resources across departments
 - More projects require a multi-disciplinary approach for success
 - Recent launch of the Enterprise Risk Management program to prioritize and address corporate risks
- Research funding landscape has shifted from an NSERC Industrial Research Chair program to an NSERC Alliance Grant which creates higher leveraging of invested dollars (2:1 versus 1:1).



Version 4.0 – An Opportunity



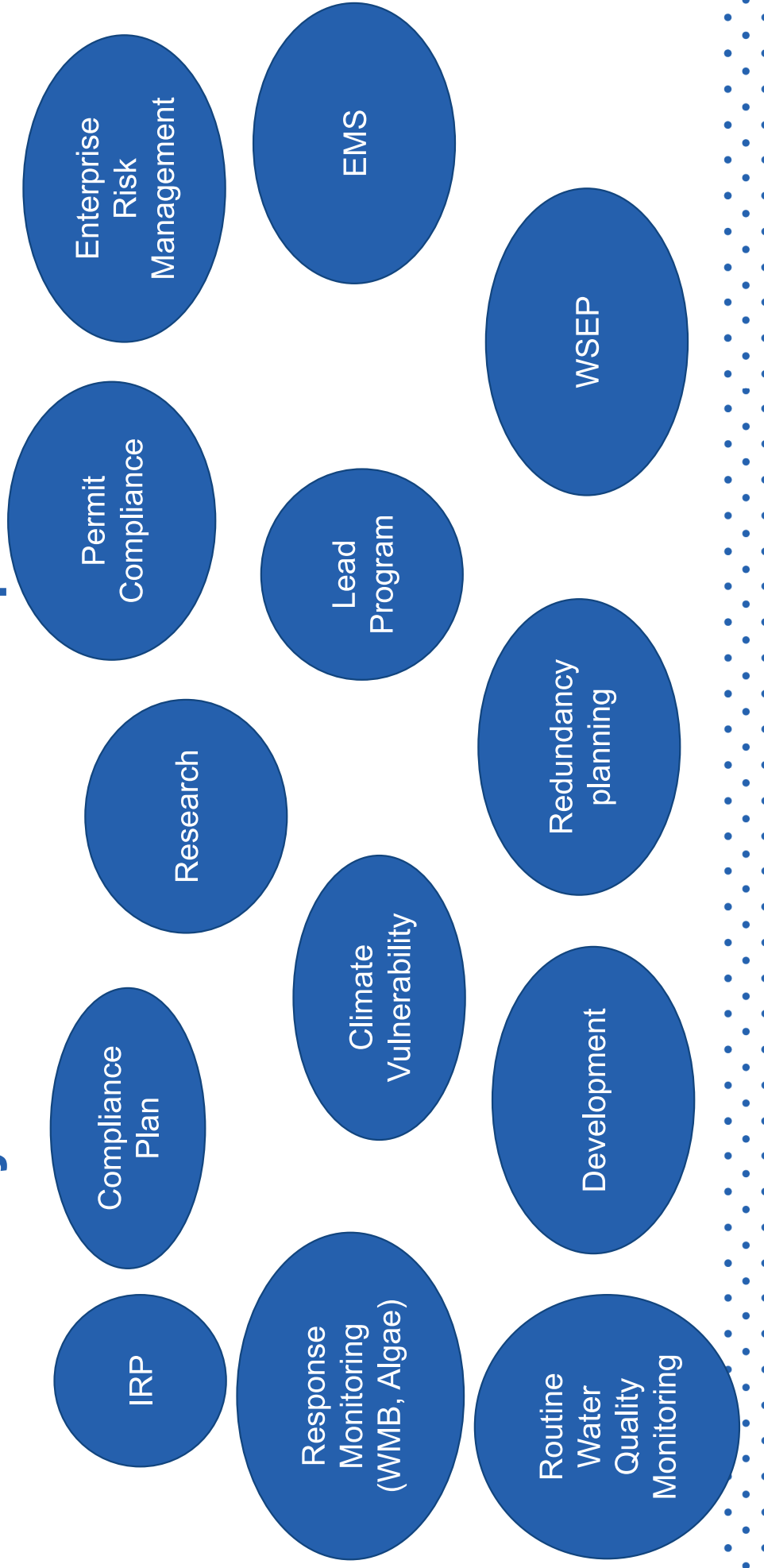
Our Vision

We will provide our customers with high quality water, wastewater, and stormwater services.

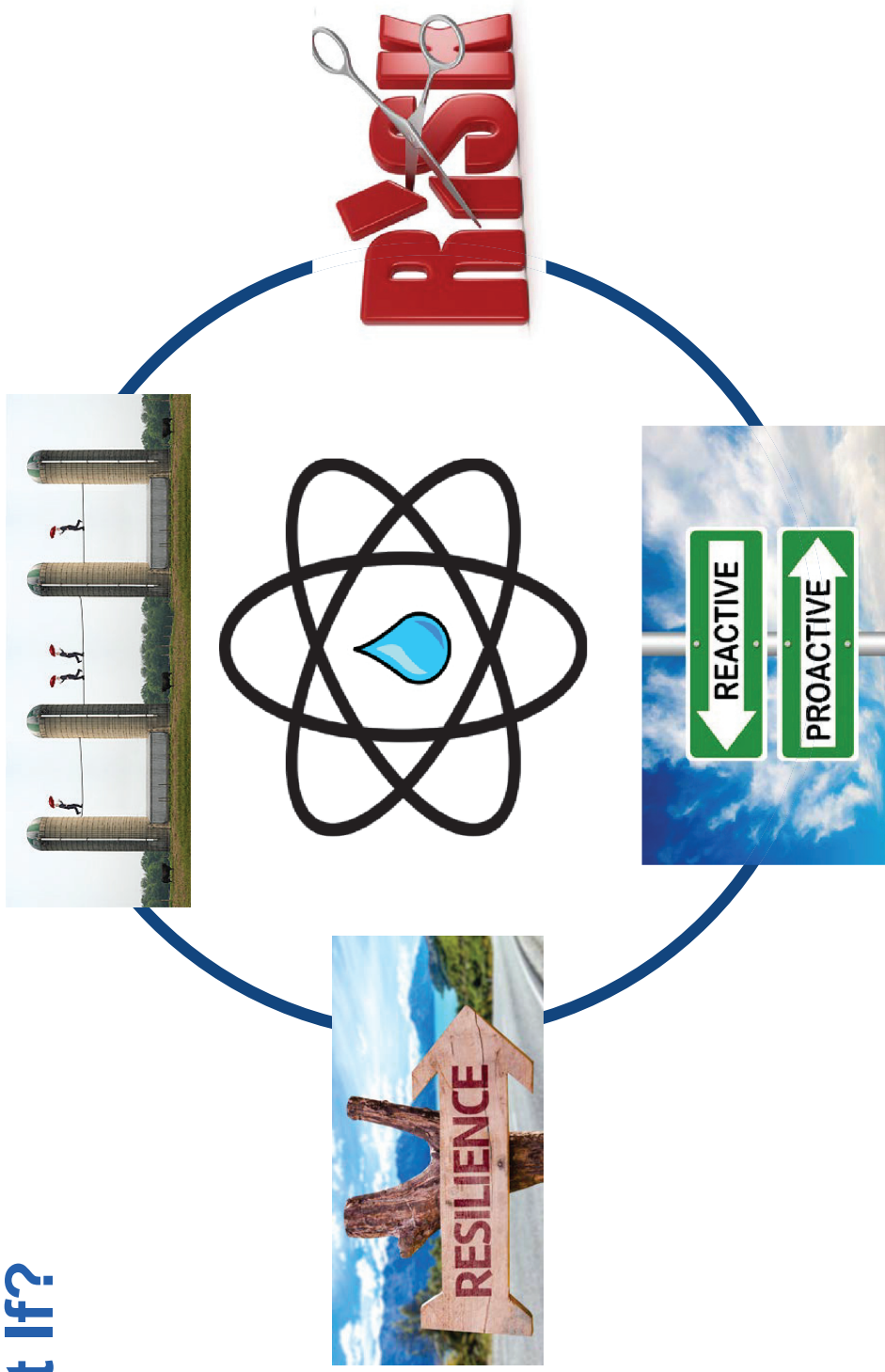
Through adoption of best practices, we will place the highest value on public health, customer service, fiscal responsibility, workplace safety and security, asset management, regulatory compliance, and stewardship of the environment.

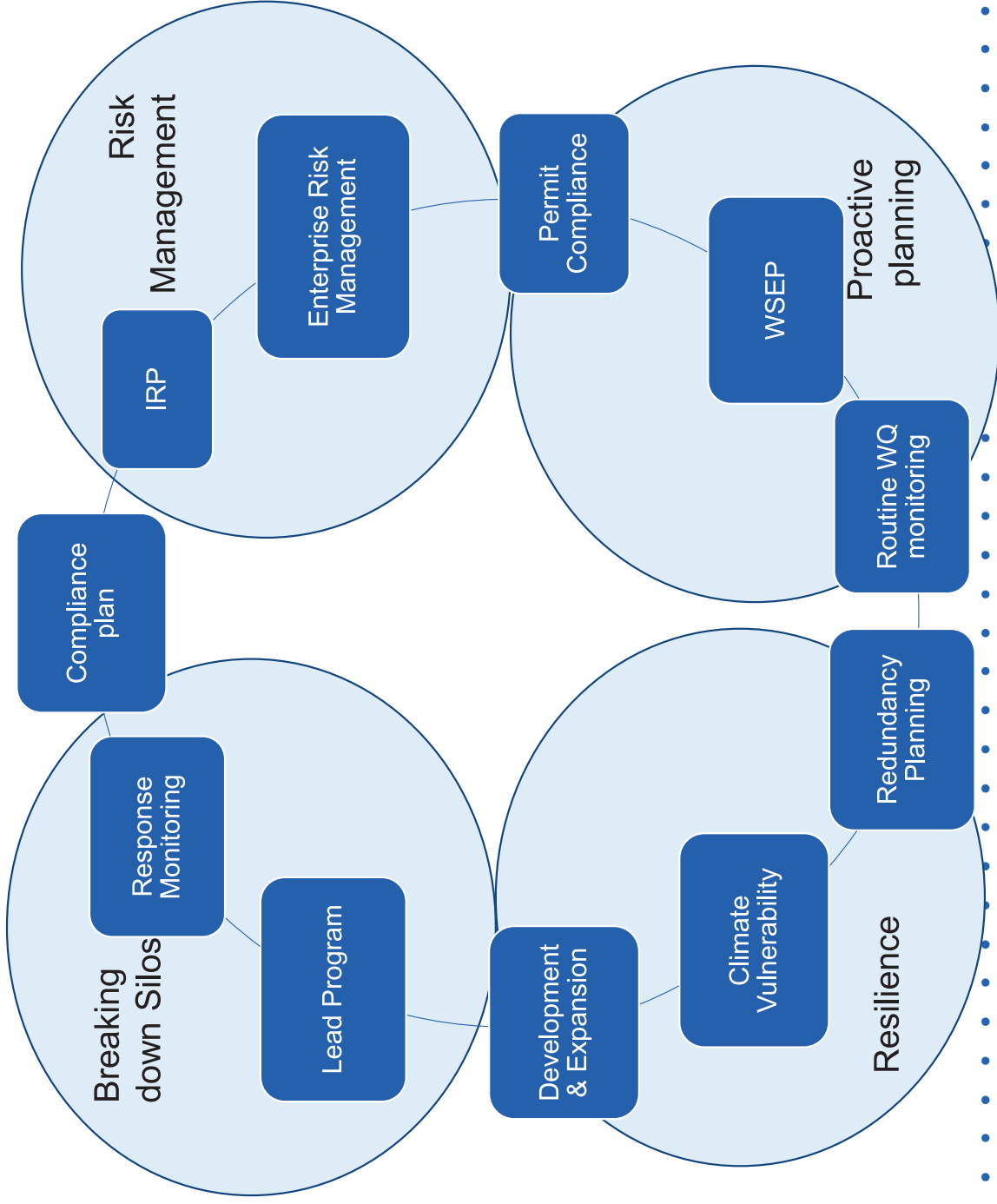
We will fully engage employees through teamwork, innovation, and professional development.

Current Utility Initiatives that incorporate WQ



What If?



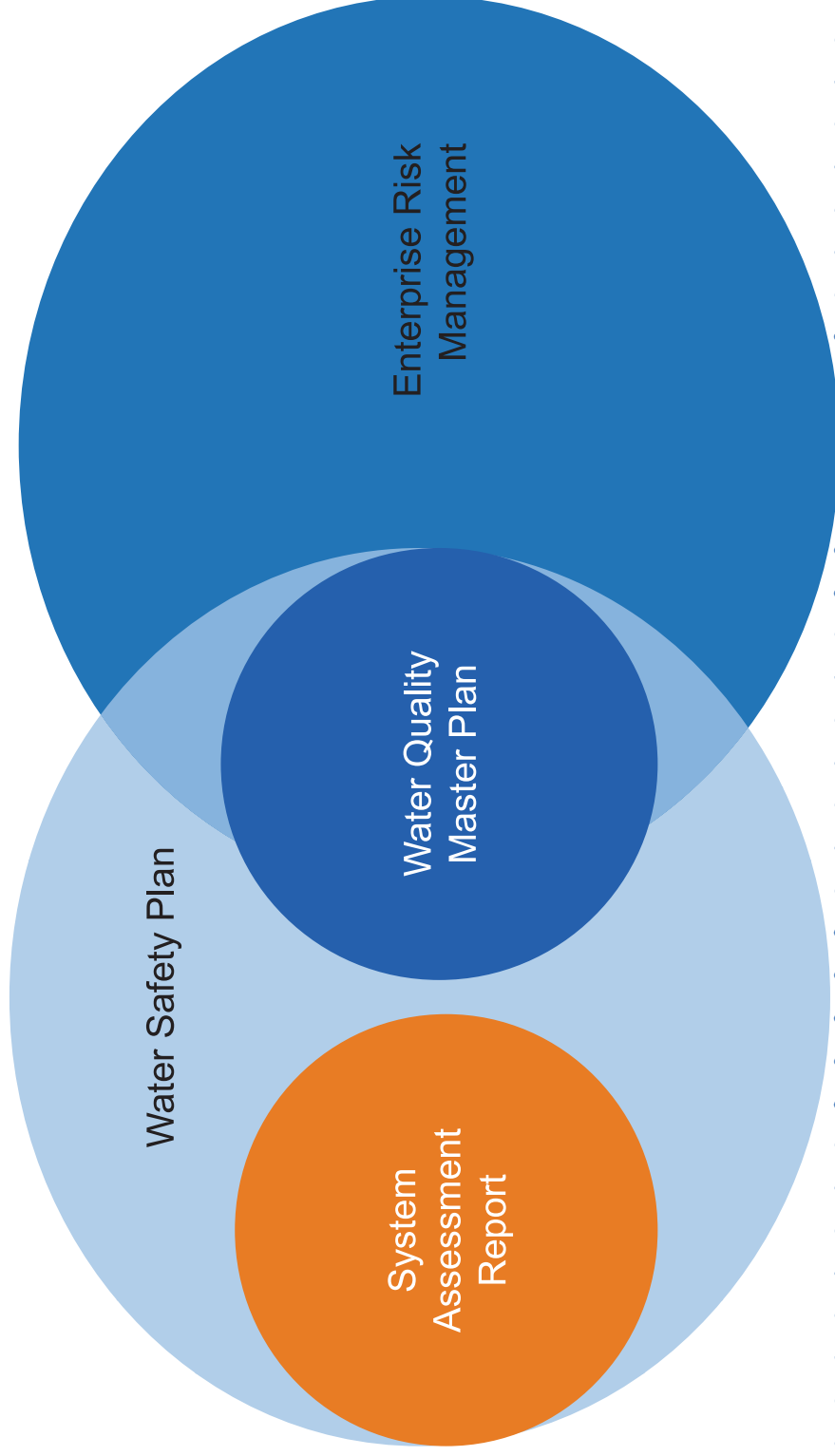


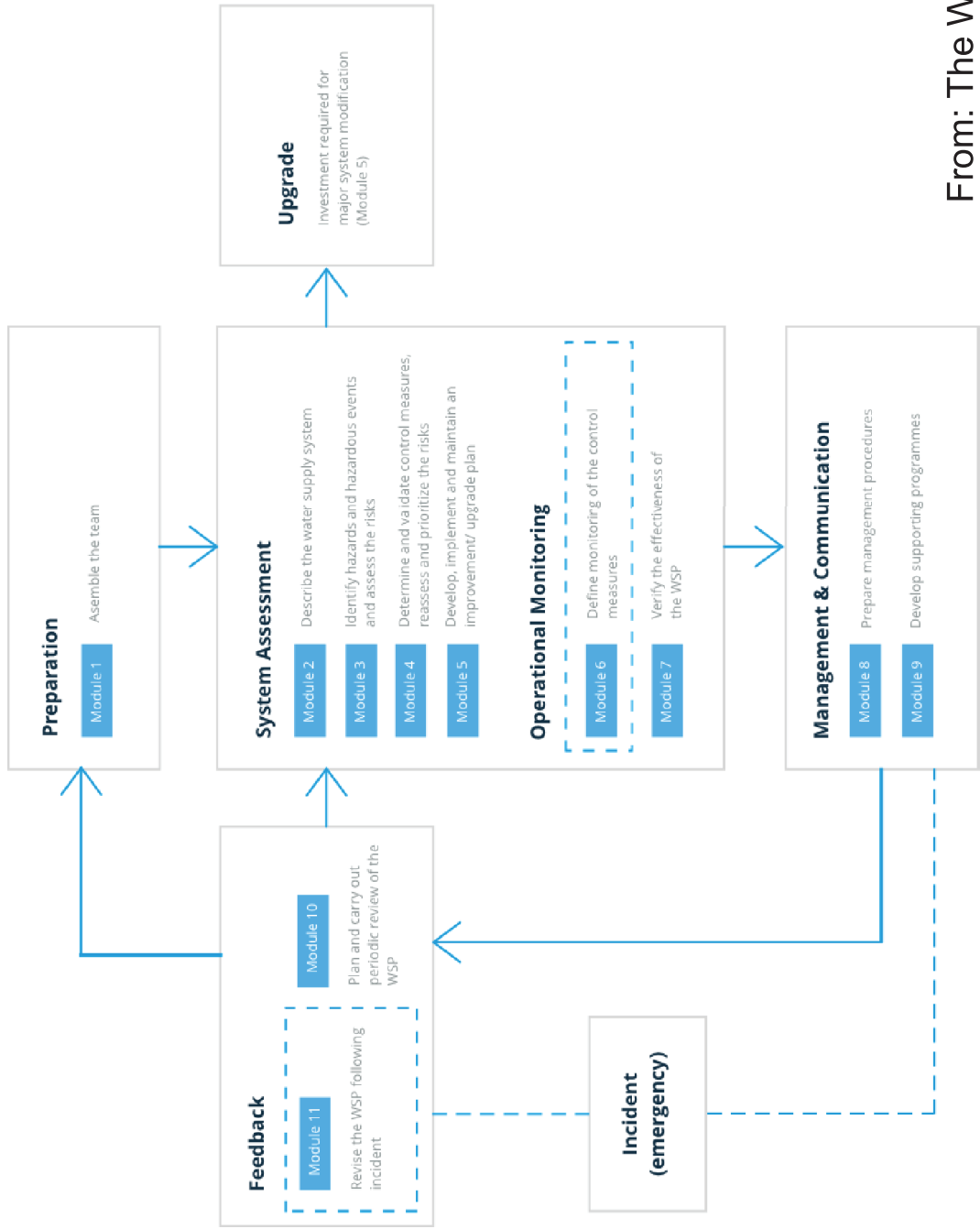
Opportunity

- Shift from a standalone Water Quality Master Plan to a Water Safety Plan that uses a multi-disciplinary approach to create a living program that assesses and prioritizes risks to water quality.
- **Benefits:**
 - Integration with ERM process, WQ risks can feed directly into corporate risks
 - Asset management and capital planning – feed directly into IRP
 - Proactive versus reactive approach
 - Formal process for continuous improvement
 - Forward thinking for future regulations - WQMP
 - Integration with regulatory processes such as the 10-year System Assessment Report
 - Opportunity to include climate resiliency
- **Challenges**
 - Requires buy-in at all levels and appropriate resourcing
 - Many frameworks to choose from and no one size fits all approach
 - A new initiative on top of many other new and important initiatives



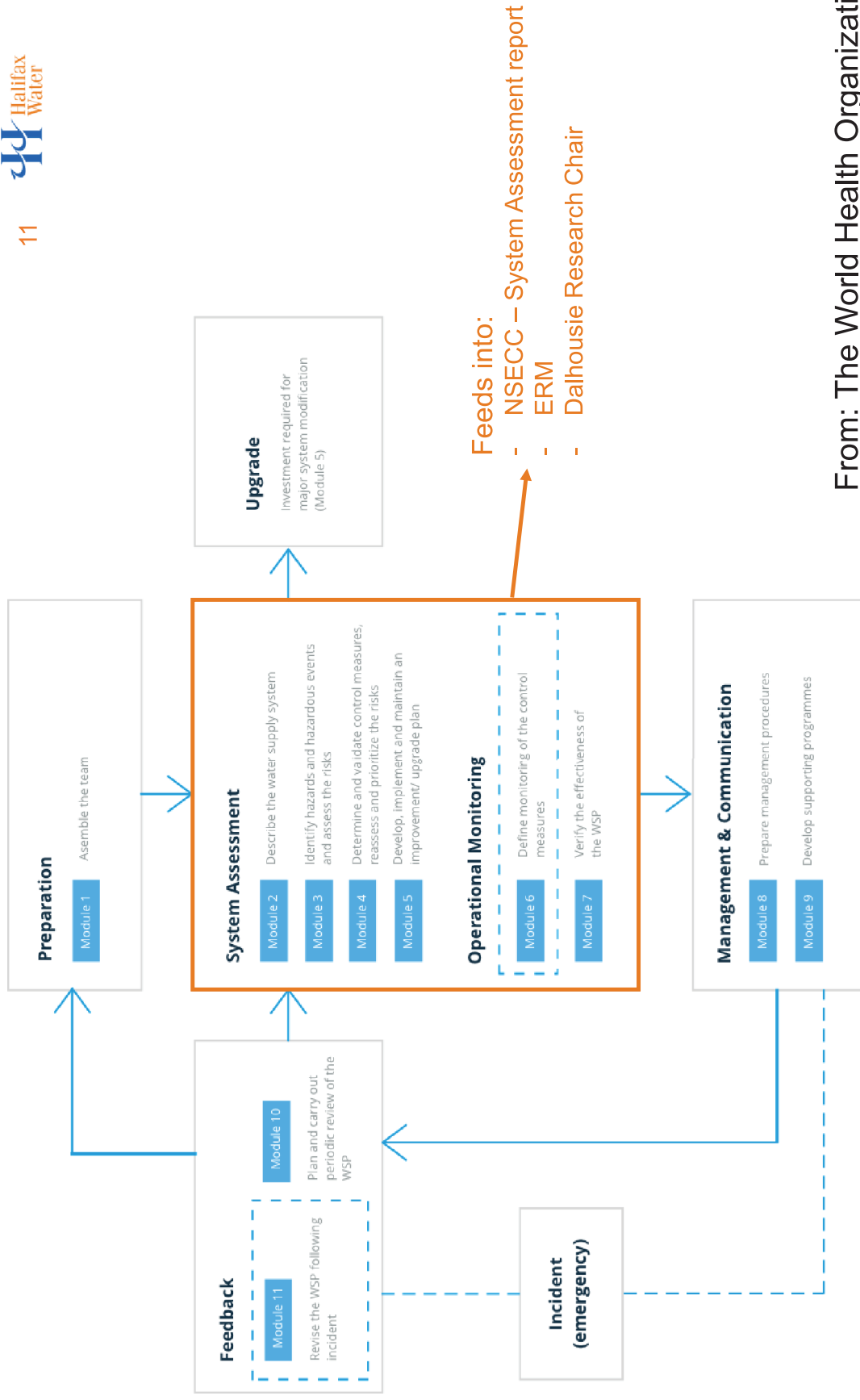
How do WQMP, WSP, SAR and ERM fit together?



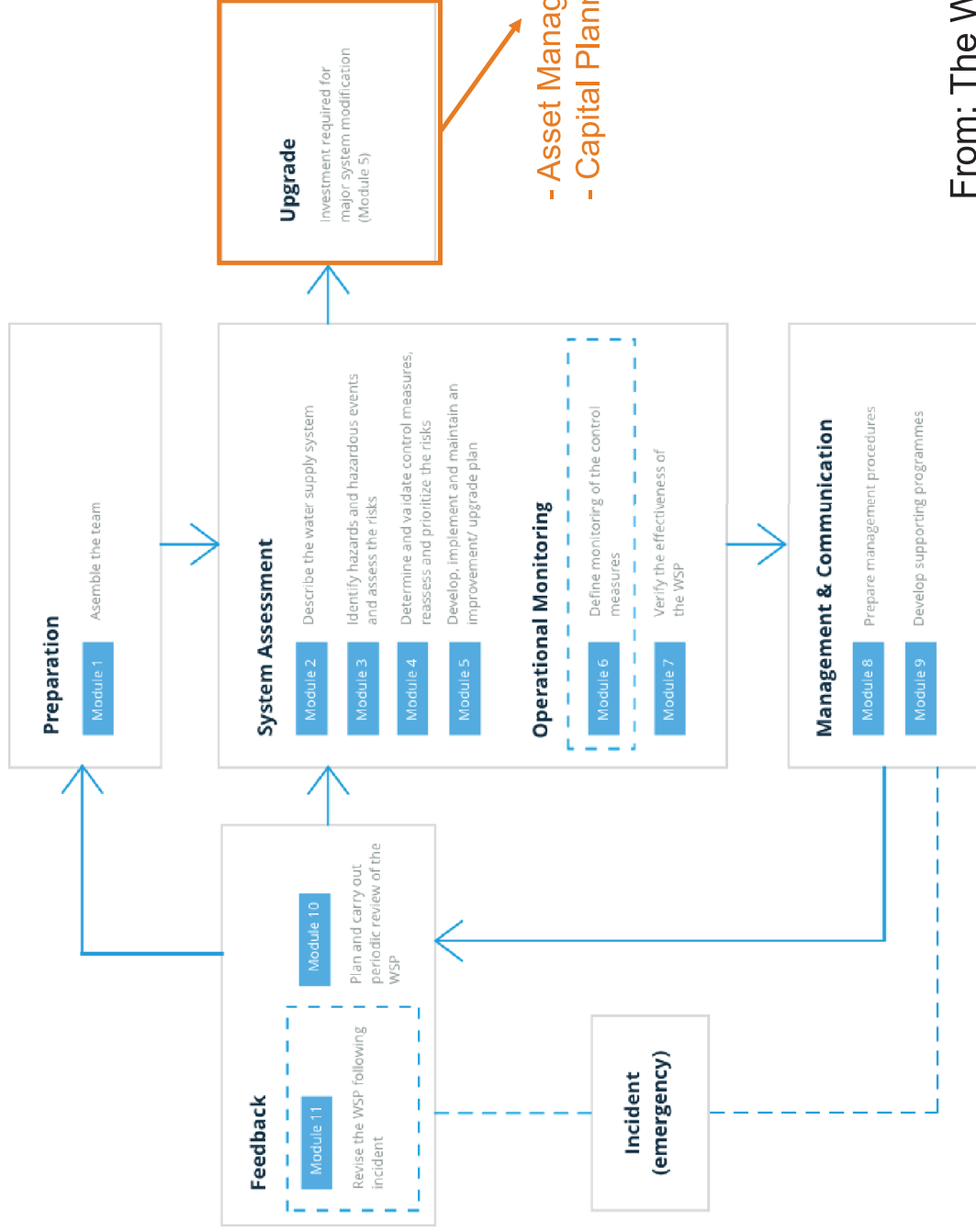


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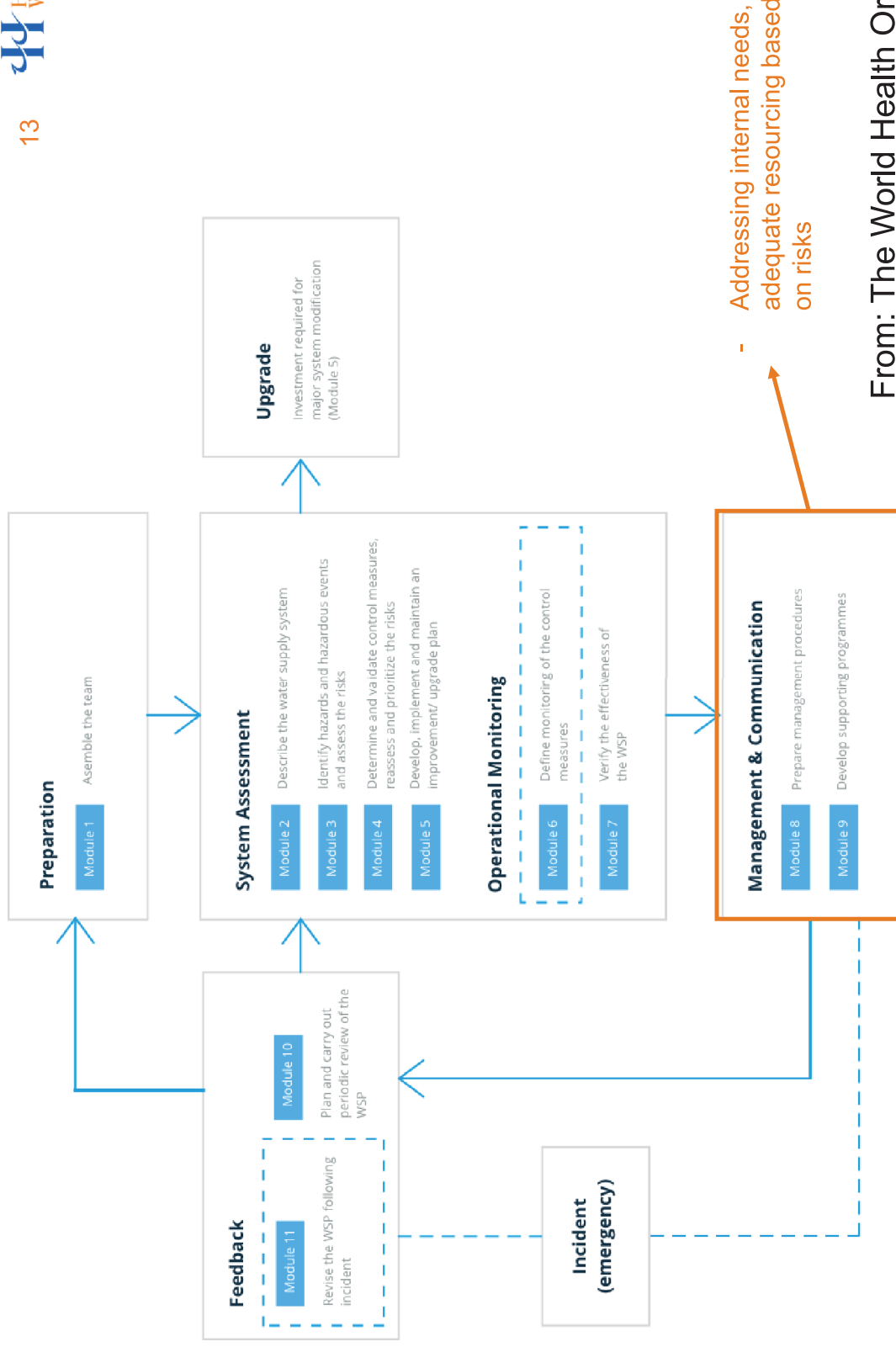




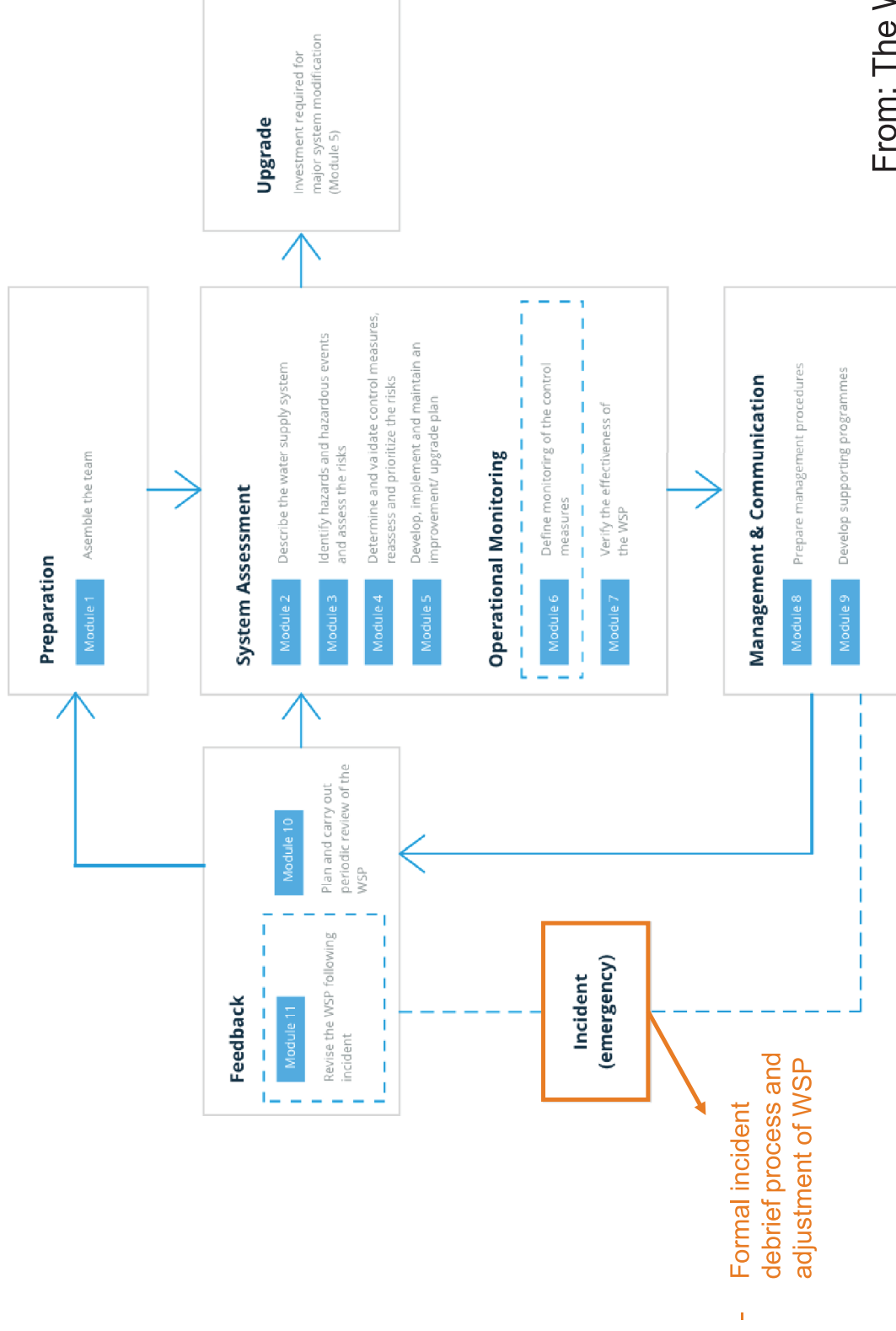
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From: The World Health Organization



From: The World Health Organization

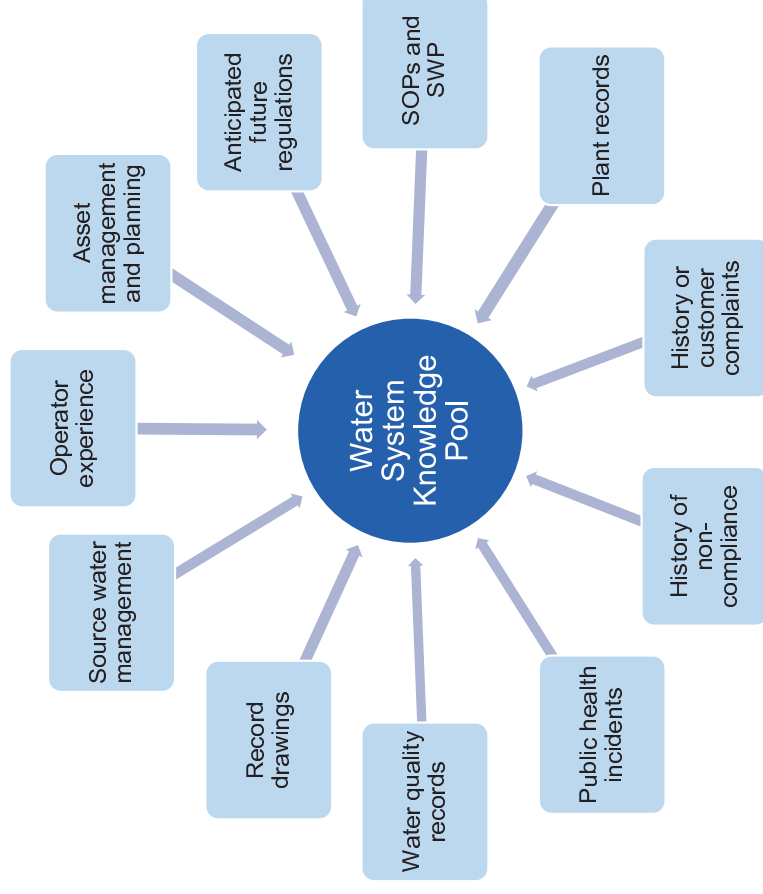
Selecting a Framework

- Needs:
 - Proven, flexible, scalable
 - Complements/integrates with ERM process
 - Incorporates requirements of the NSECC System Assessment Report
- *Options:*
 - WHO – Broad and well established, adaptable framework
 - Canada:
 - Alberta Environment – excel based, feedback not great
 - Ontario – Drinking Water Quality Management Standard – ISO 9001, HACCP
 - Worldwide
 - Iceland – largely HACCP based
 - NZ – Introduced into drinking water standards in 2005
 - Australia – Introduced in 2009, based on HACCP, ISO 9001, AS/NZs ISO31000:2009 ISO 31000
 - Industry:
 - ISO – 9001: Quality Management, 22000: Food Safety Management, 31000: Risk Management
 - AWWA G-Series standards
 - Partnership for safe water



Next Steps

- Create a Water Safety Plan/System Assessment Team
 - Select a framework that fits with ERM and System Assessment Reports
 - Develop a formal Water Safety Plan process
 - Timelines, stakeholders, outcomes, metrics
- Start to develop a Water System Knowledge Pool
- Conduct a Series of Hazard and Risk assessment workshops with key internal and external stakeholders
 - Source
 - Treatment
 - Distribution
- Identify gaps, control and assessment measures
 - Internal/external research plan
 - Capital Planning
 - Operational controls and monitoring



Summary

- Historical water quality planning was done through the Water Quality Master Plan, which informed research and some internal processes
- Moving towards a Water Safety Plan approach which will integrate with ERM and will:
 - Create a water system knowledge pool – One Water
 - Deliver the 2023 System Assessment Reports
 - Provide prioritized risks to inform asset management and capital planning
 - Will inform research direction
 - Develop processes to monitor progress towards risk reduction
 - Allows for incident debriefs to inform and improve the plan



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Water Quality Manager

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(902) 483-4432



TO: Becky Kent, B.A., Chair and Members of the Halifax Regional Water Commission Board

SUBMITTED BY: Susheel
Arora

Digitally signed by
Susheel Arora
Date: 2021.11.18
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Susheel Arora, M.A.Sc., P.Eng. Director, Operations

Kenda
MacKenzie

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Date: 2021.11.18
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Kenda MacKenzie, P.Eng. Director, Regulatory Services

APPROVED:

Cathie O'Toole

Digitally signed by Cathie
O'Toole
Date: 2021.11.19
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Cathie O'Toole, MBA, CPA, CGA, ICD.D, General Manager

SUBJECT: **Operational Performance Information Report**

INFORMATION REPORT

ORIGIN:

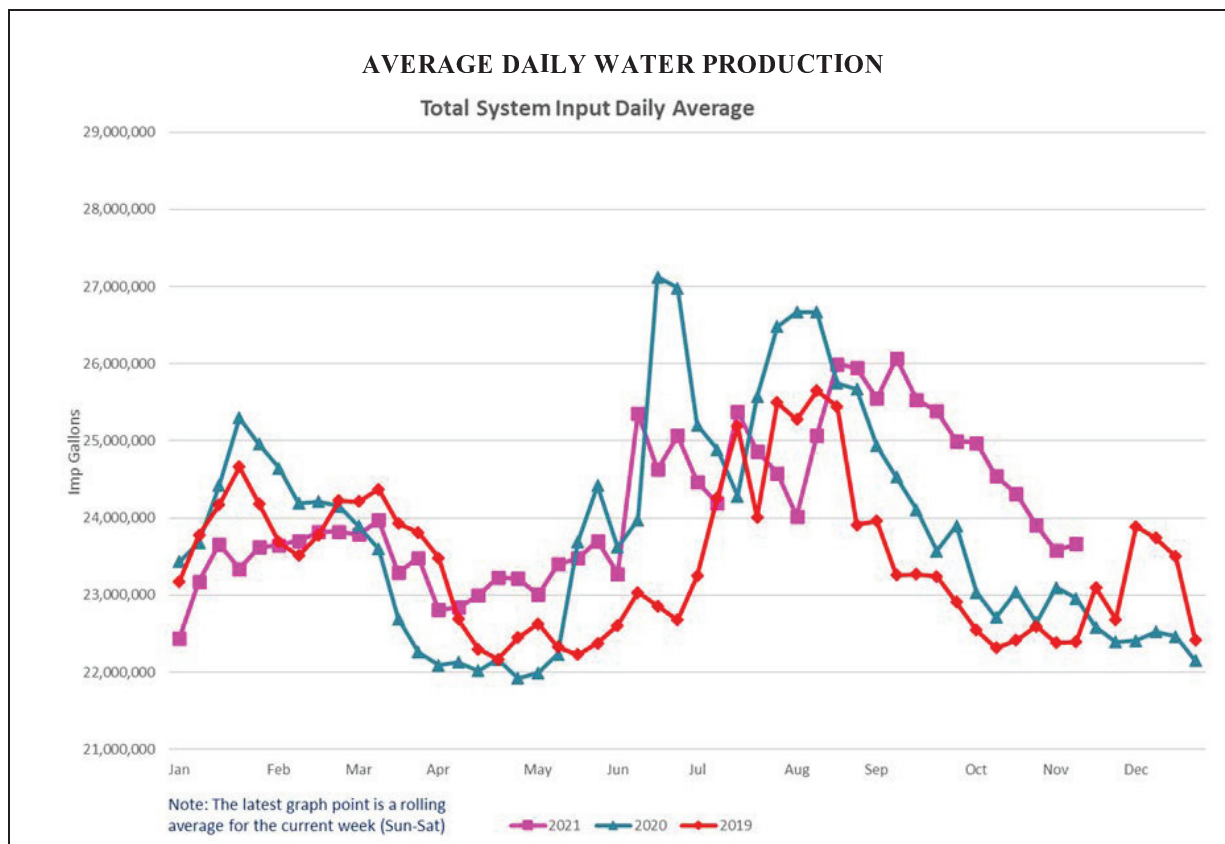
Regular update.

This report provides a high level overview of operational performance for the utility. The safety statistics results are first, followed by indicators and statistics for water and wastewater.

SAFETY STATISTICS – July 1, 2021 thru September 30, 2021 (unless stated otherwise)

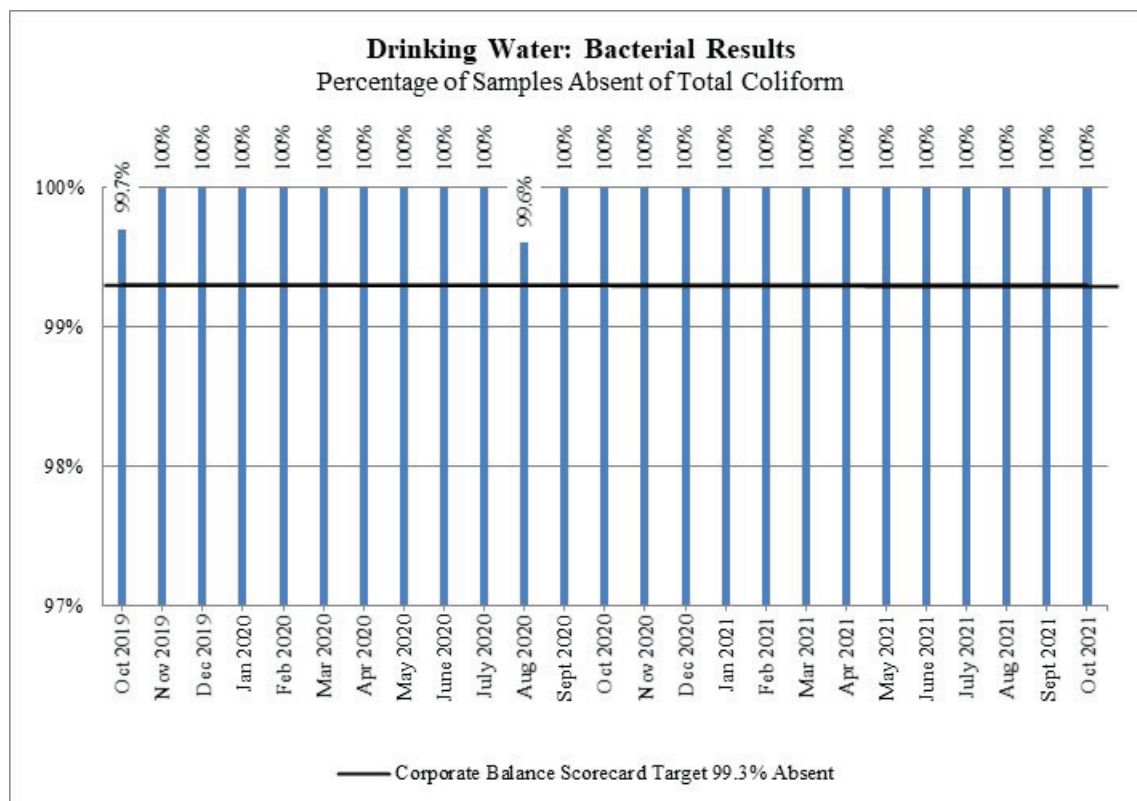
Organizational Metrics	Results
Number of Lost Time Accidents *	4
Number of motor vehicle accidents per 1,000,000 km driven	0
Number of workplace inspections conducted *	59
Percentage of safety talks conducted *	37%
Number of near misses reported *	35
Number of employees on accommodation or gradual return to work	6
Number of WCB claims	9
Number of work refusals	0
Number of incidents with written compliance orders *	0
Number of employees trained or recertified before due date *	374
Total number of courses taken by employees for training/recertification *	782

* Fiscal Year to Date



Regional Water Main Break/Leak Data		
Year	Total Breaks/Leaks	Current 12 Month Rolling Total (up to October 2021)
2020/21	179	199
2019/20	191	
2018/19	226	
2017/18	206	
2016/17	216	
Total	1018	
Yr. Avg.	203.6	

Water Accountability
Losses per Service Connection/Day (International Water Association Standard)
<i>Period Ending September 30, 2021</i>
Real Losses: 198 litres
CBS Target: 160



Water Quality Master Plan Objectives				
2021-2022 Q2				
Objective	Total Sites	% Sites Achieving Target	All Sites: 90th Percentile < 15 µg/L	CBSC Awarded Points
Disinfection	64	95%	---	15
Total Trihalomethanes	25	76%	---	0
Haloacetic Acids	21	100%	---	20
Particle Removal	5	93%	---	13
Corrosion Control	105	---	4.28	20
Summary Total				68

Score: 68/100

In this report each facility is assessed using monthly or quarterly averages, depending on the averaging period specified in its Approval to Operate.

Wastewater Treatment Facility	Wastewater Treatment Facility Compliance Summary																	
	Rolling Averages - August, September and October 2021																	
	CBOD ₅ (mg/L)		TSS (mg/L)		E. coli (counts/ 100mL)		pH		Ammonia (mg/L)		Phosphorous (mg/L)		TRC (mg/L)		Dissolved Oxygen (mg/L)		Toxicity	Trend
	NSE Limit	Avg.	NSE Limit	Avg.	NSE Limit	Avg.	NSE Limit	Avg.	NSE Limit	Avg.	NSE Limit	Avg.	NSE Limit	Avg.	NSE Limit	Avg.		
* Halifax	50	56	40	39	5000	70,783	6-9	6.8	-	-	-	-	-	-	-	-	Acutely lethal	Continued
Dartmouth	50	50	40	13	5000	54	6-9	6.6	-	-	-	-	-	-	-	-	Not acutely lethal	Continued
Herring Cove	50	29	40	15	5000	32	6-9	6.7	-	-	-	-	-	-	-	-	Not acutely lethal	Continued
Eastern Passage	25	8	25	11	200	59	6-9	7.2	-	-	-	-	-	-	-	-	Not acutely lethal	Continued
Mill Cove	25	11	25	13	200	17	6-9	6.5	-	-	-	-	-	-	-	-	Not acutely lethal	Continued
Springfield	20	7	20	21	200	10	6-9	6.5	-	-	-	-	-	-	-	-	-	Continued
Frame	20	5	20	1	200	10	6-9	6.2	-	-	-	-	-	-	-	-	-	Continued
Middle Musq.	20	7	20	6	200	10	6-9	7.3	-	-	-	-	-	-	-	-	-	Continued
Uplands	20	8	20	7	200	10	6-9	6.5	-	-	-	-	-	-	-	-	-	Continued
Aerotech	5	2	5	1	200	10	6-9	7.7	5.7 W 1.2 S	0.1	0.13	0.05	-	-	6.5	7.1	Not acutely lethal	Continued
North Preston	10	4	10	3	200	7	6-9	6.7	3	0.1	1.5	1.3	-	-	-	-	-	Improved
Lockview	20	5	20	4	200	14	6.5-9	6.9	8.0 S	1.1	1.2 S	0.3	-	-	-	-	-	Continued
Steeves (Wellington)	20	5	20	1	200	10	6.5-9	7.1	14.4 S	0.1	1.0 S	0.1	-	-	-	-	-	Continued
BLT	15	5	20	12	200	11	6-9	6.8	5 W 3 S	1	3 W 1 S	1	0.02 *	0.10	-	-	Not acutely lethal	Continued
Avg. of all Facilities	14		10		5074		6.8		0.5		0.5		0.10		7.1			

NOTES & ACRONYMS:

CBOD₅ - Carbonaceous 5-Day Biochemical Oxygen Demand

TSS - Total Suspended Solids

* TRC - Total Residual Chlorine - Maxxam can only measure 0.10 mg/L residual; results of 0.1 mg/L are compliant

BDL - Below Detection Limit

W / S - Winter / Summer compliance limits

NSE requires monthly averages be less than the NSE Compliance Limit for each parameter at Dartmouth, Eastern Passage, Halifax, Herring Cove, Mill Cove

NSE requires quarterly averages be less than the NSE Compliance Limit for each parameter at Aerotech, Lockview, Mid. Musq., Frame, BLT, Uplands, Springfield Lake

NSE requires annual averages be less than the NSE Compliance Limit for each parameter at North Preston and Steeves

Continued - All parameters remain essentially unchanged since the last report

Improved - One or more parameter(s) became compliant since the last report

Declined - One or more parameters(s) became non-compliant since the last report

* **Halifax - The plant is working at 50% capacity treating all flows due to construction.**

LEGEND

	NSE Compliant
	NSE Non-Compliant

SEASONAL RULES:

BLT NH3: shall not exceed 3 mg/L between May 1 and October 30; otherwise, shall not exceed 5 mg/L

BLT TP: shall not exceed 1 mg/L between May 1 and October 30; otherwise, shall not exceed 3 mg/L

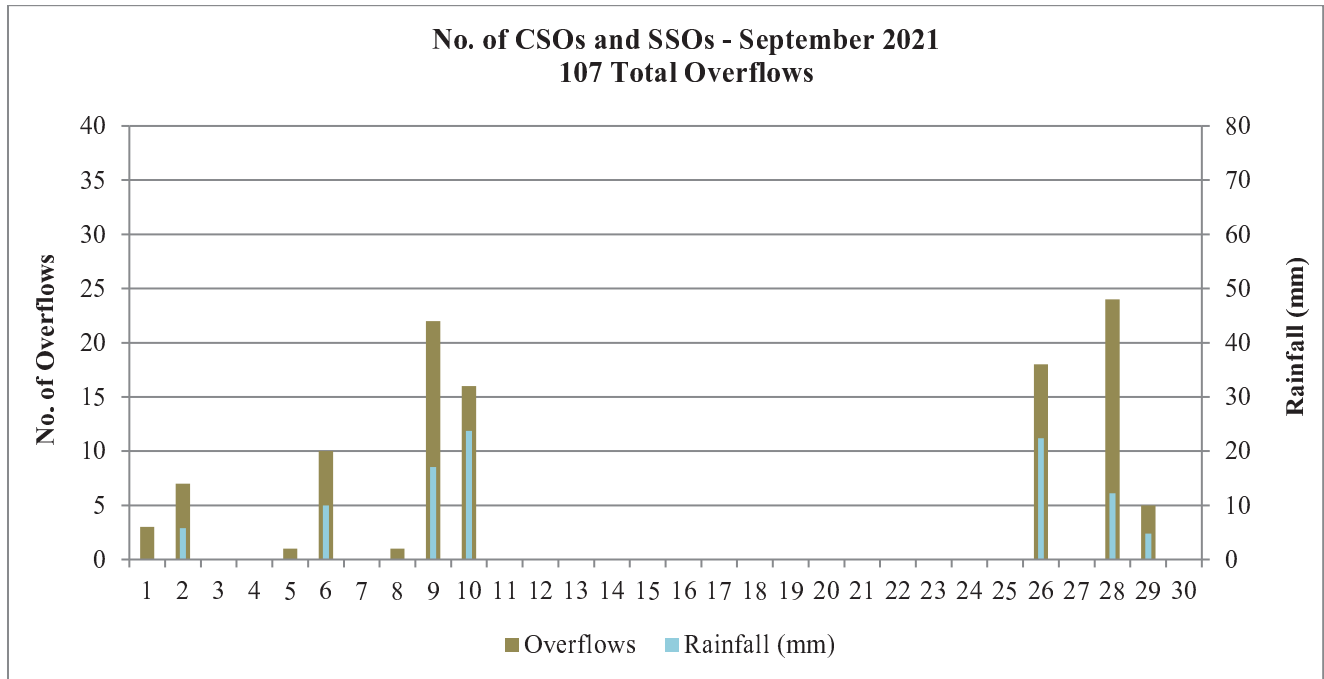
Aerotech NH3: shall not exceed 1.2 mg/L between May 1 and October 30; otherwise, shall not exceed 5.7 mg/L

Lockview NH3: shall not exceed 8 mg/L between May 1 and October 30

Lockview TP: shall not exceed 1.2 mg/L between May 1 and October 30

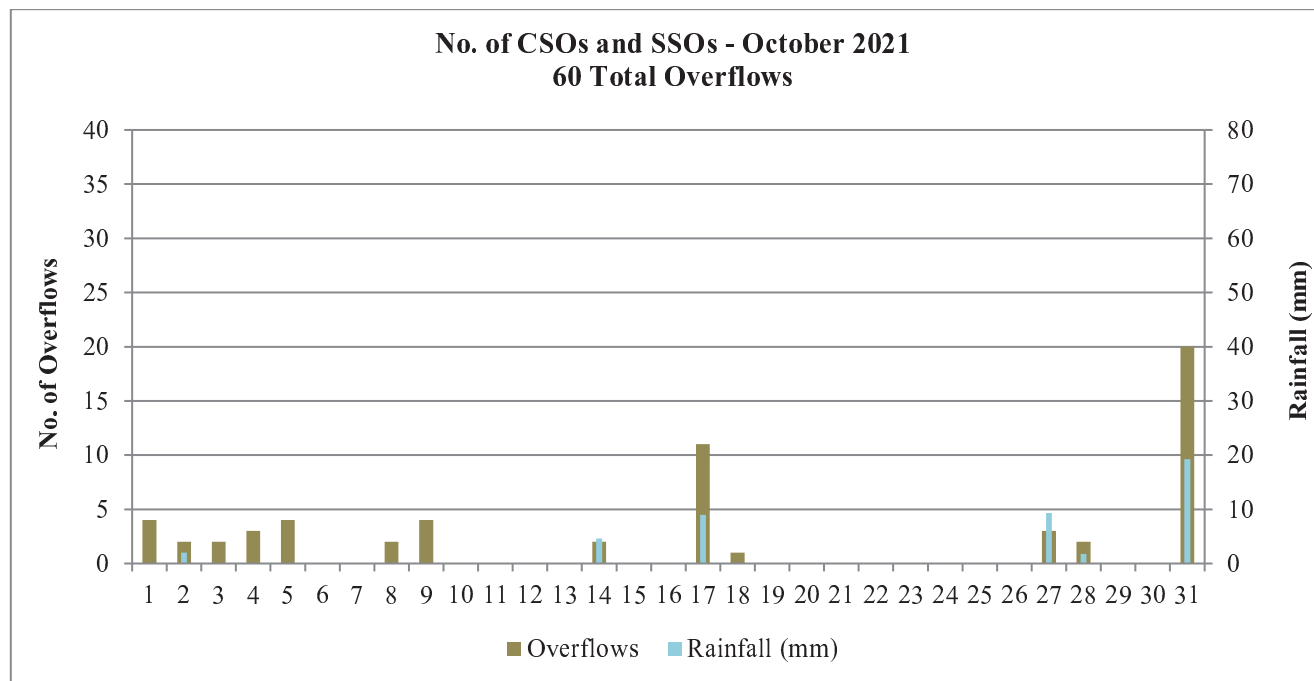
Wellington NH3: shall not exceed 14.4 mg/L between May 1 and October 30

Wellington TP: shall not exceed 1.0 mg/L between May 1 and October 30



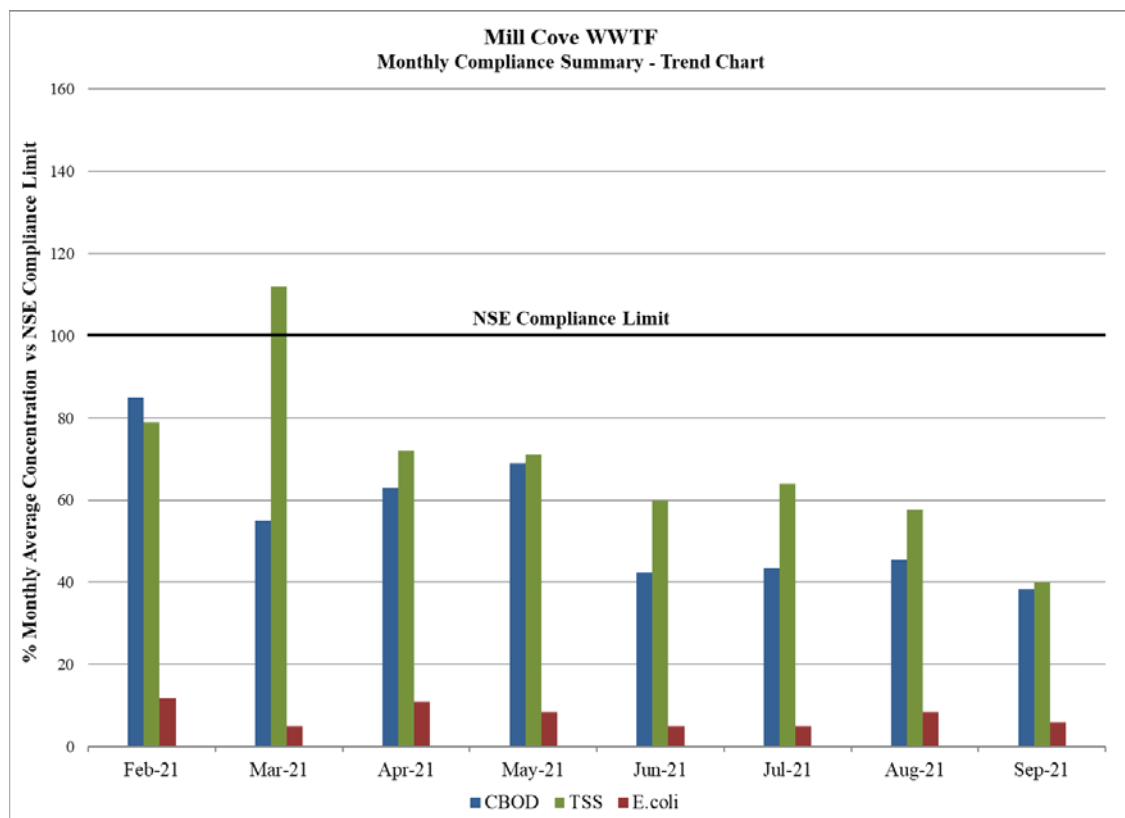
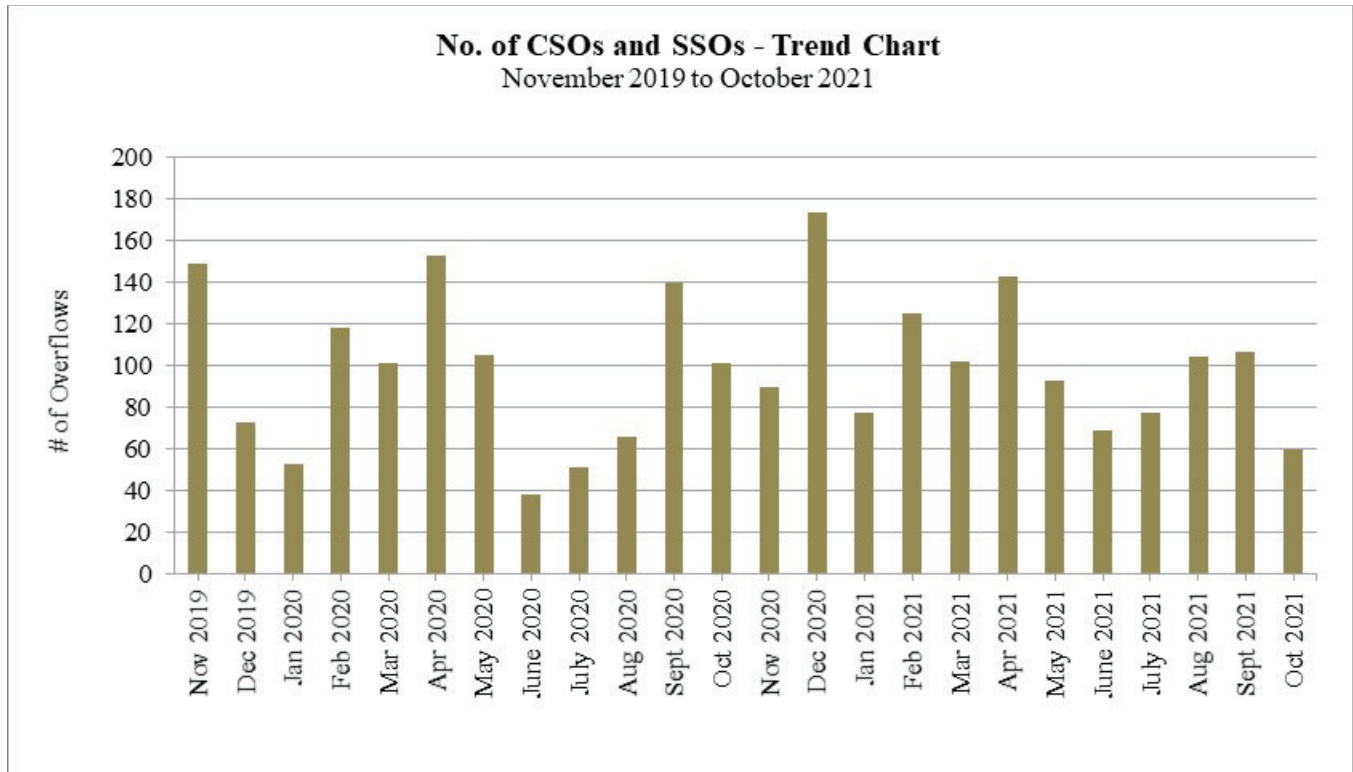
NOTES & ACRONYMS: CSO - Combined Sewer Overflow SSO - Sanitary Sewer Overflow

- Rainfall data is from Halifax Water's rain gauge at the Halifax WWTF.
- There were five overflows on days when there was no recorded rainfall, as follows:
 1. September 1: The CSOs at Sackville St CSO were due to blockages caused by debris. The SSO at Fish Hatchery PS was due to planned maintenance at Mill Cove WWTF. NSECC was notified.
 2. September 5: The CSO at Sackville St CSO was due to a blockage caused by debris.
 3. September 8: The CSO at Sackville St CSO was due to a blockage caused by debris.

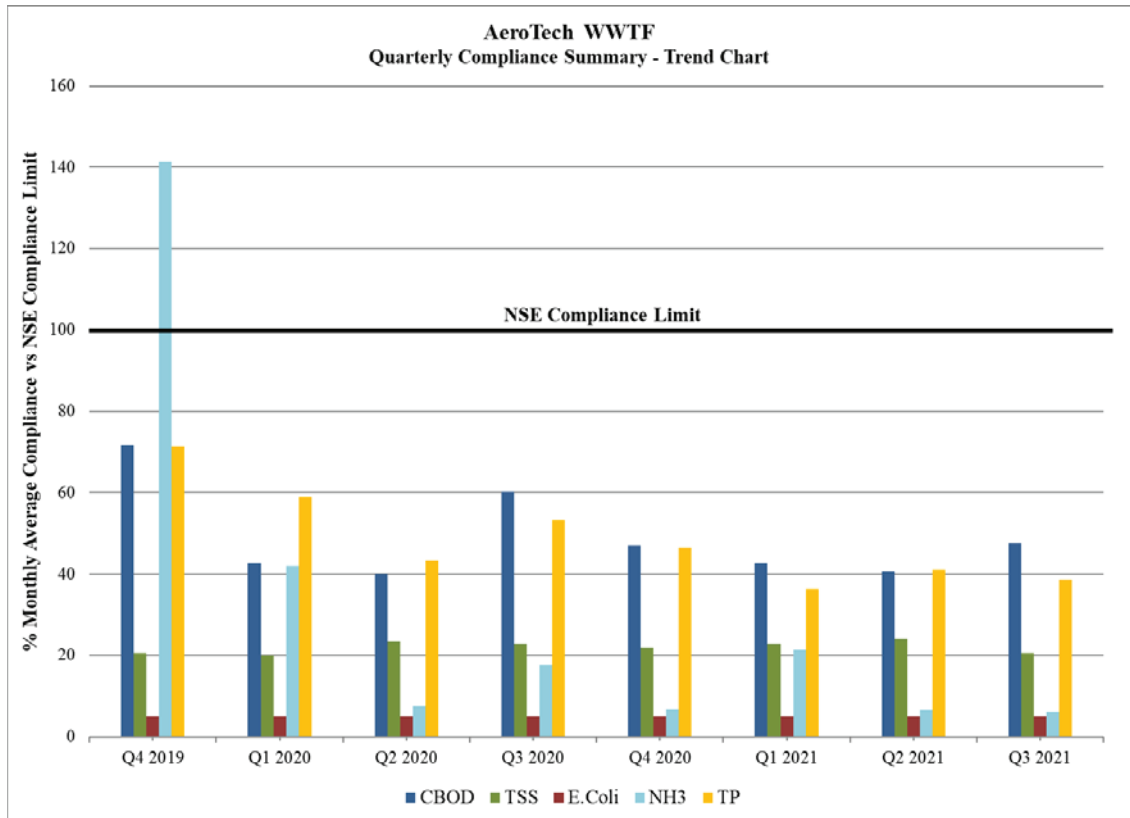


NOTES & ACRONYMS: CSO - Combined Sewer Overflow SSO - Sanitary Sewer Overflow

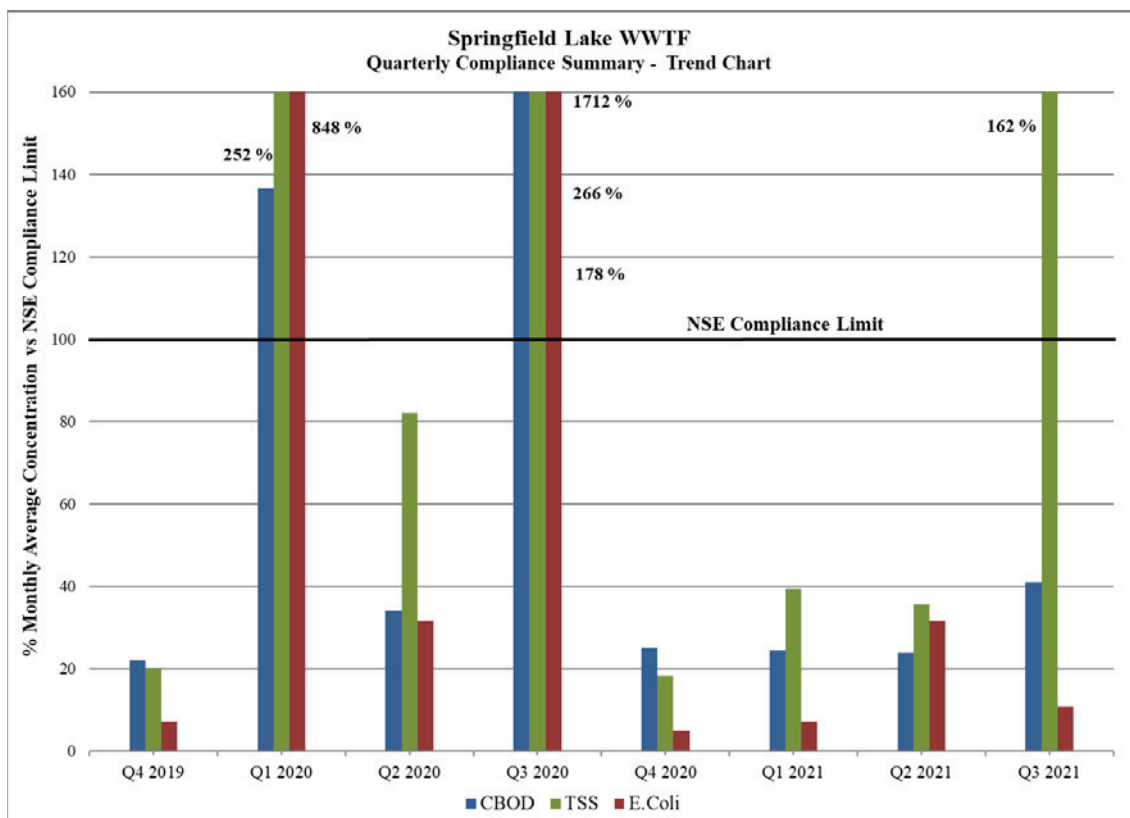
- Rainfall data is from Halifax Water's rain gauge at the Halifax WWTF.
- There were twenty overflows on days when there was no recorded rainfall, as follows:
 1. October 1: The CSOs at Sackville St CSO were due to blockages caused by debris.
 2. October 3: The CSO at Sackville St CSO was due to a blockage caused by debris. The CSO at Lyle St CSO was due to an automated Dartmouth WWTF influent gate closure caused by equipment failure.
 3. October 4: The CSOs at Sackville St CSO were due to blockages caused by debris. The CSO at Lyle St CSO was due to an automated Dartmouth WWTF influent gate closure caused by equipment failure.
 4. October 5: The CSOs at Sackville St CSO were due to blockages caused by debris. The CSO at Maitland St PS & CSO was due to an automated Dartmouth WWTF influent gate closure caused by equipment failure.
 5. October 8: The CSOs at Sackville St CSO were due to blockages caused by debris.
 6. October 9: The CSOs at Grove St CSO, Wallace St CSO and Ferguson Rd CSO were due to planned maintenance at Jamieson Rd PS & CSO. NSECC was notified.
 7. October 18: The CSO at Pier A PS & CSO was due to maintenance.



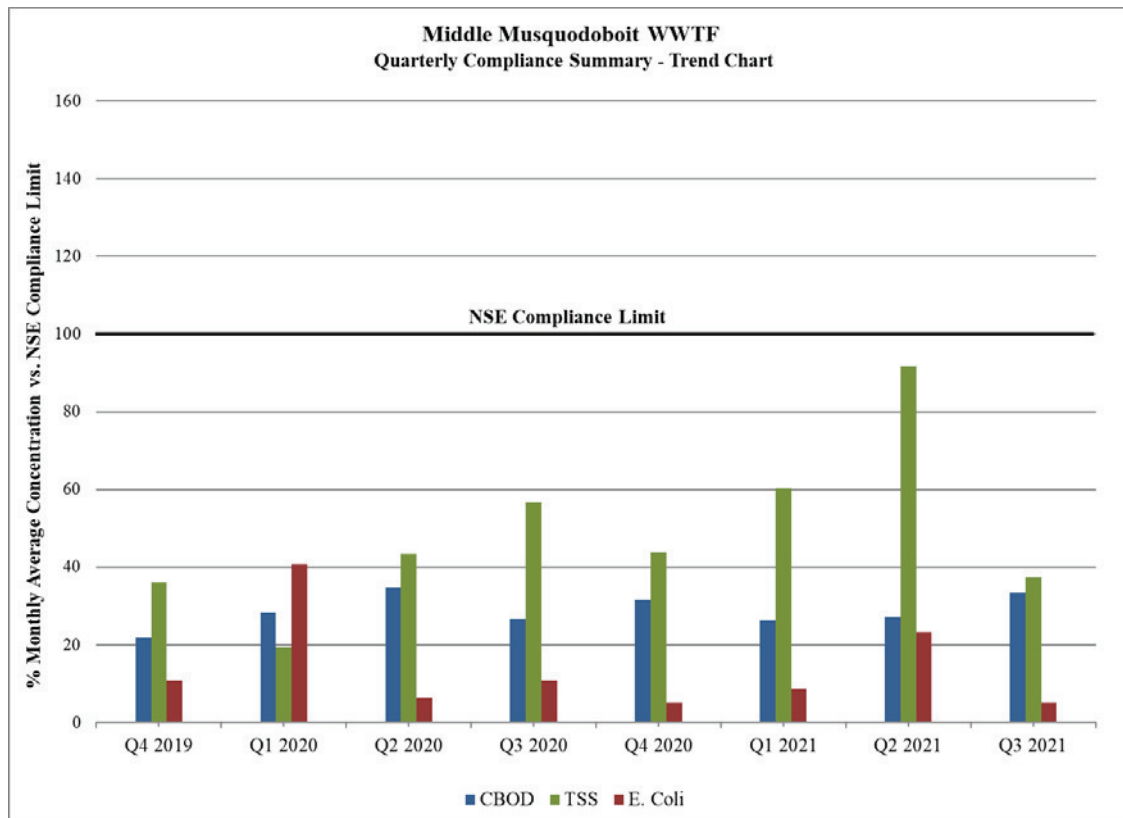
Lower numbers represent better performance.



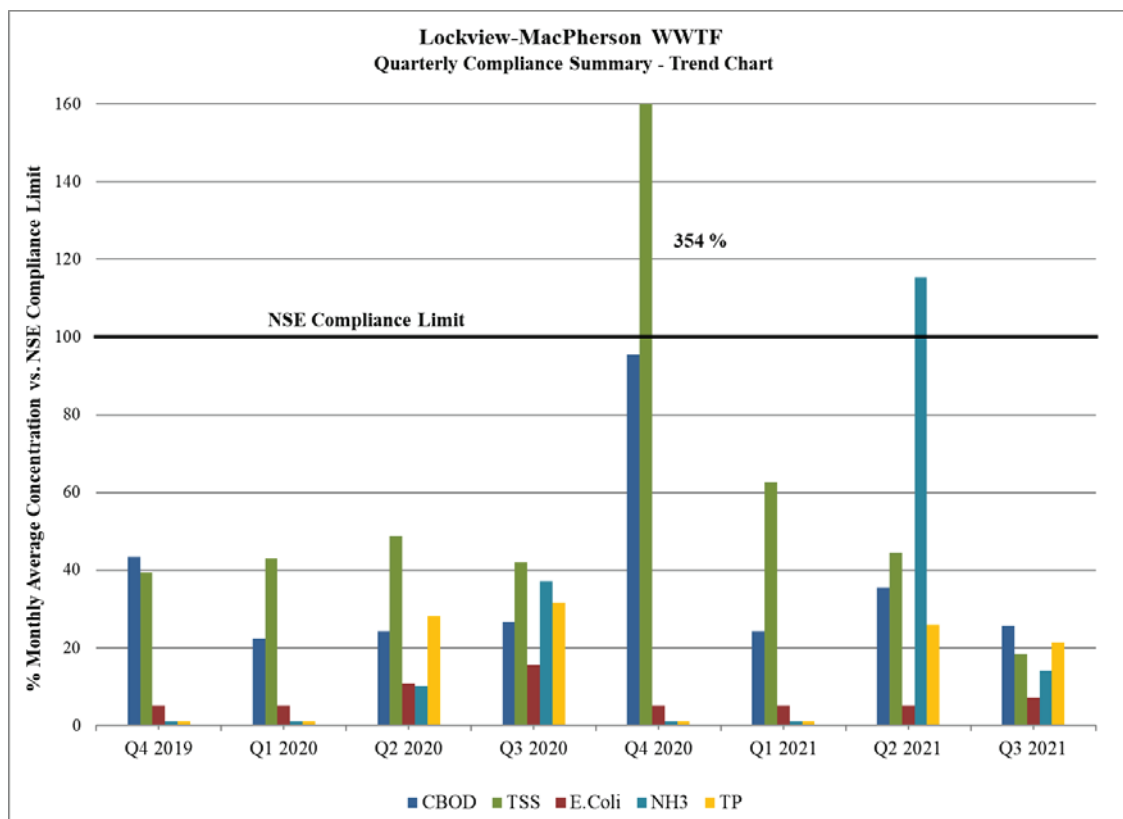
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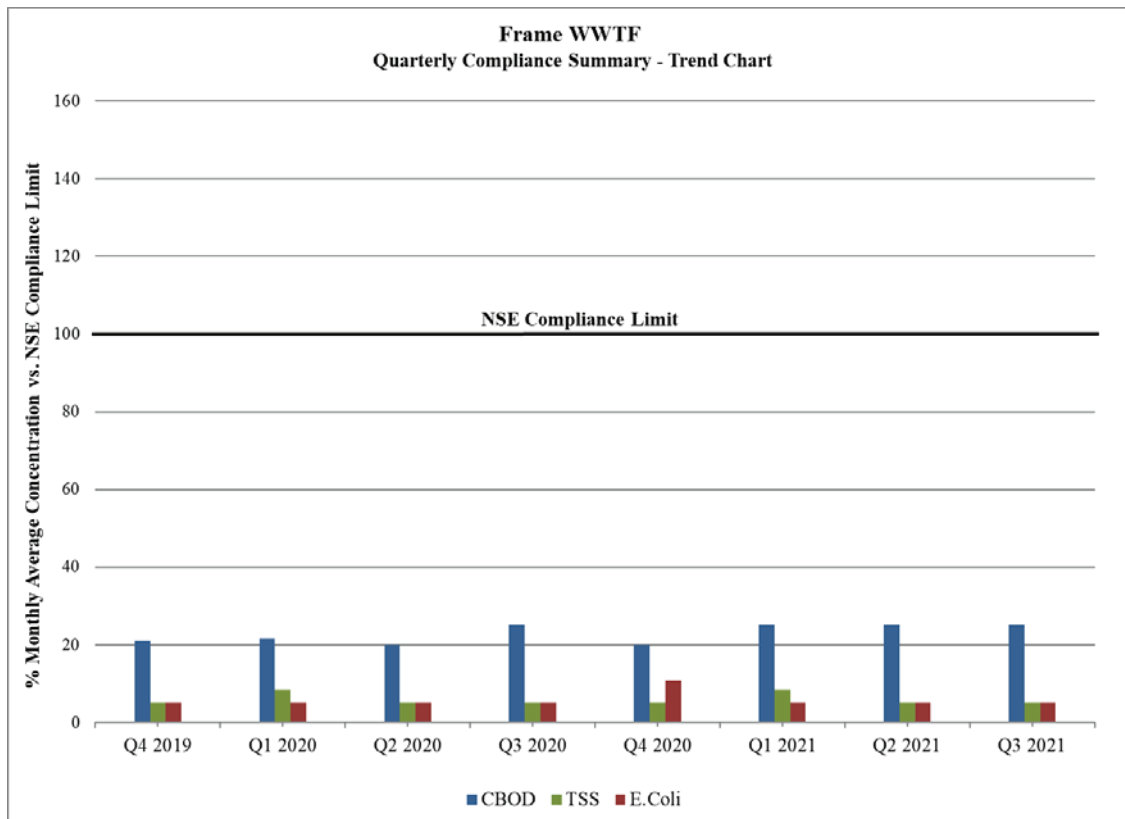
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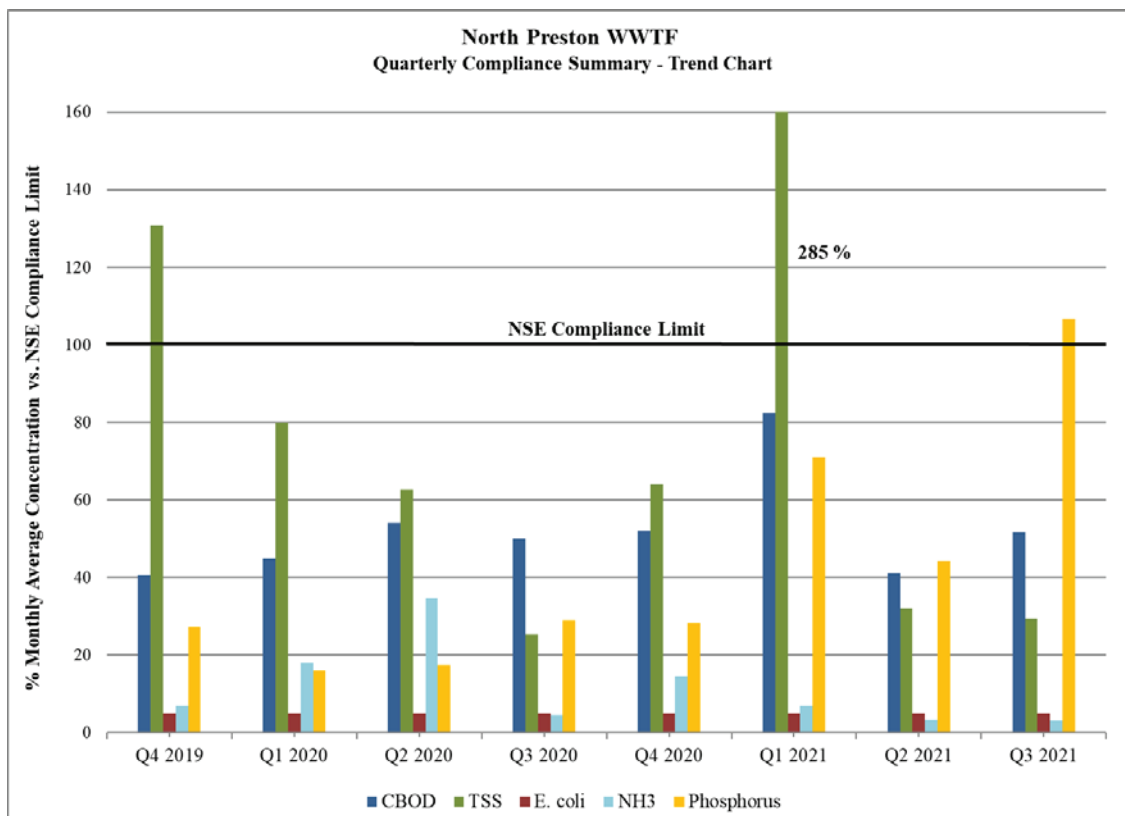
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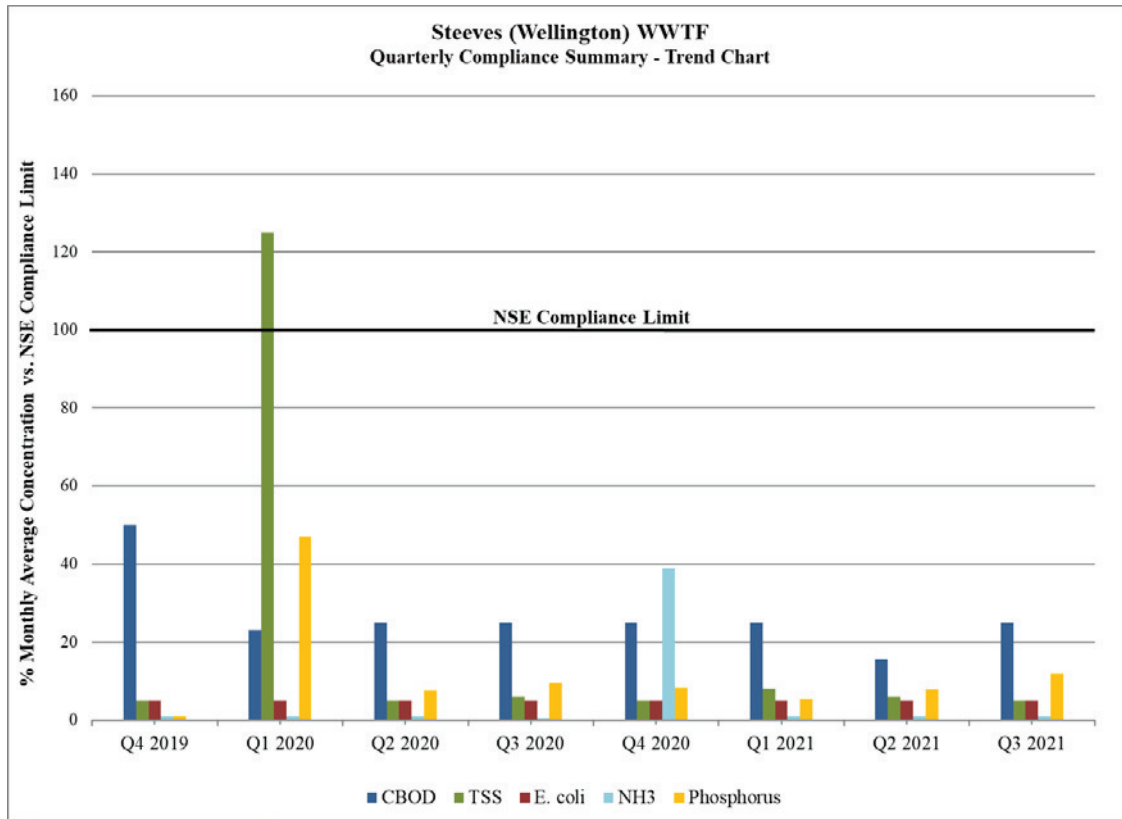
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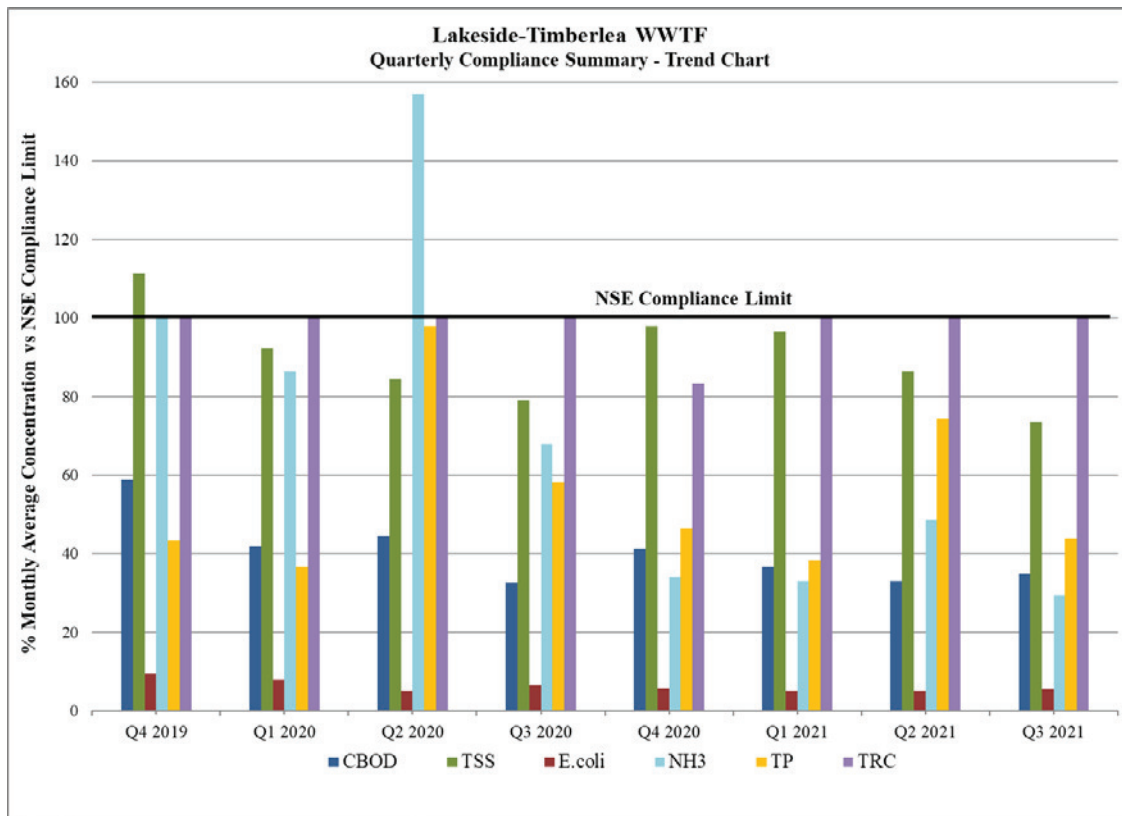
Lower numbers represent better performance.



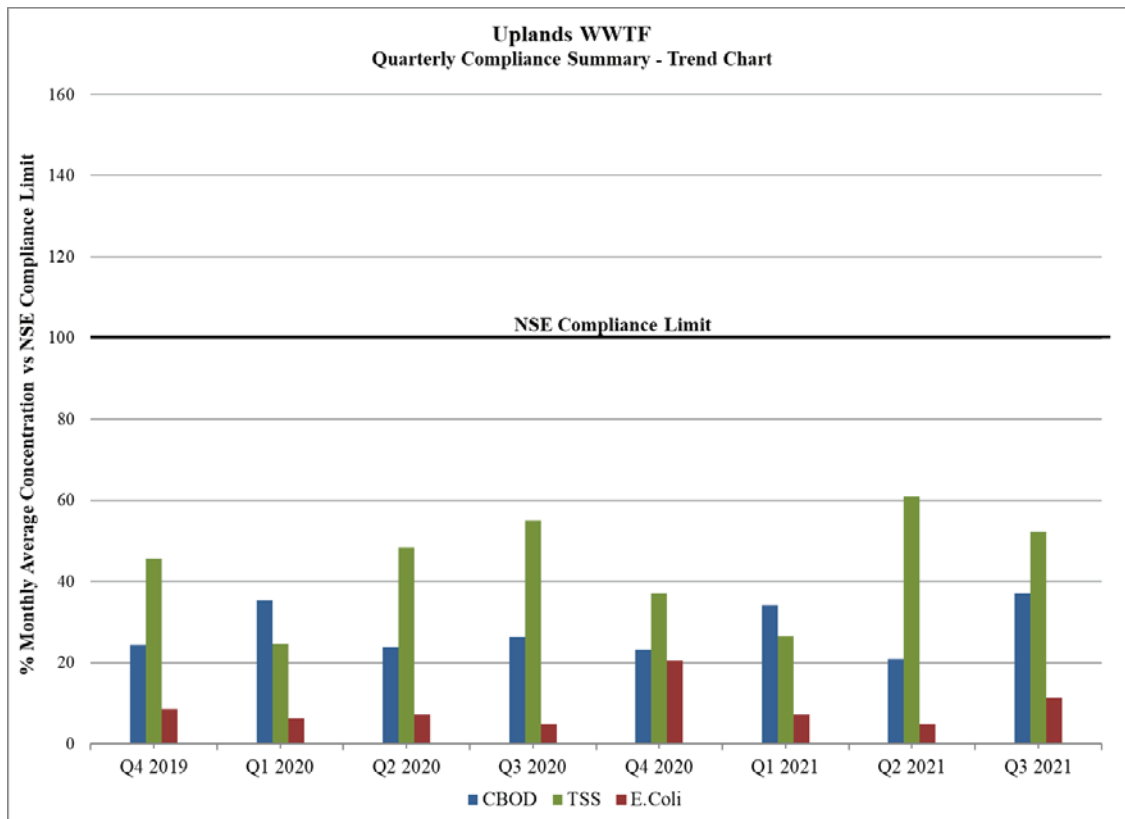
Lower numbers represent better performance.



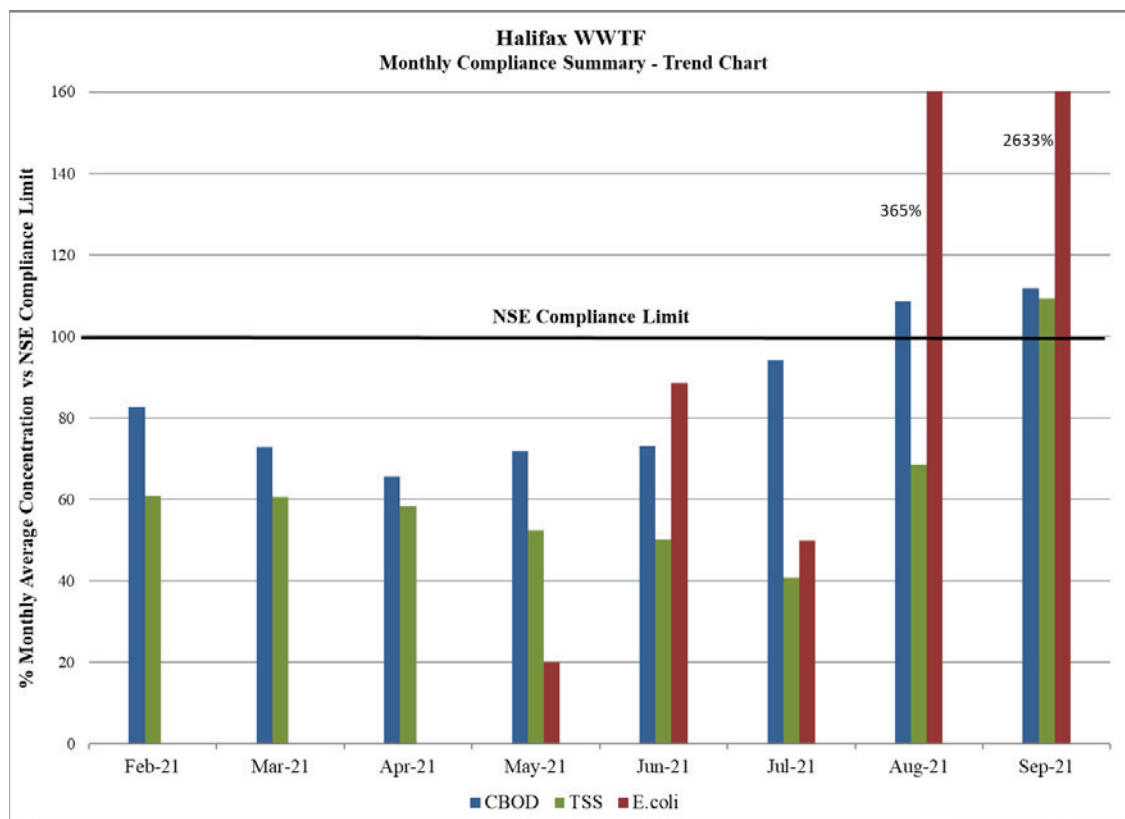
Lower numbers represent better performance.



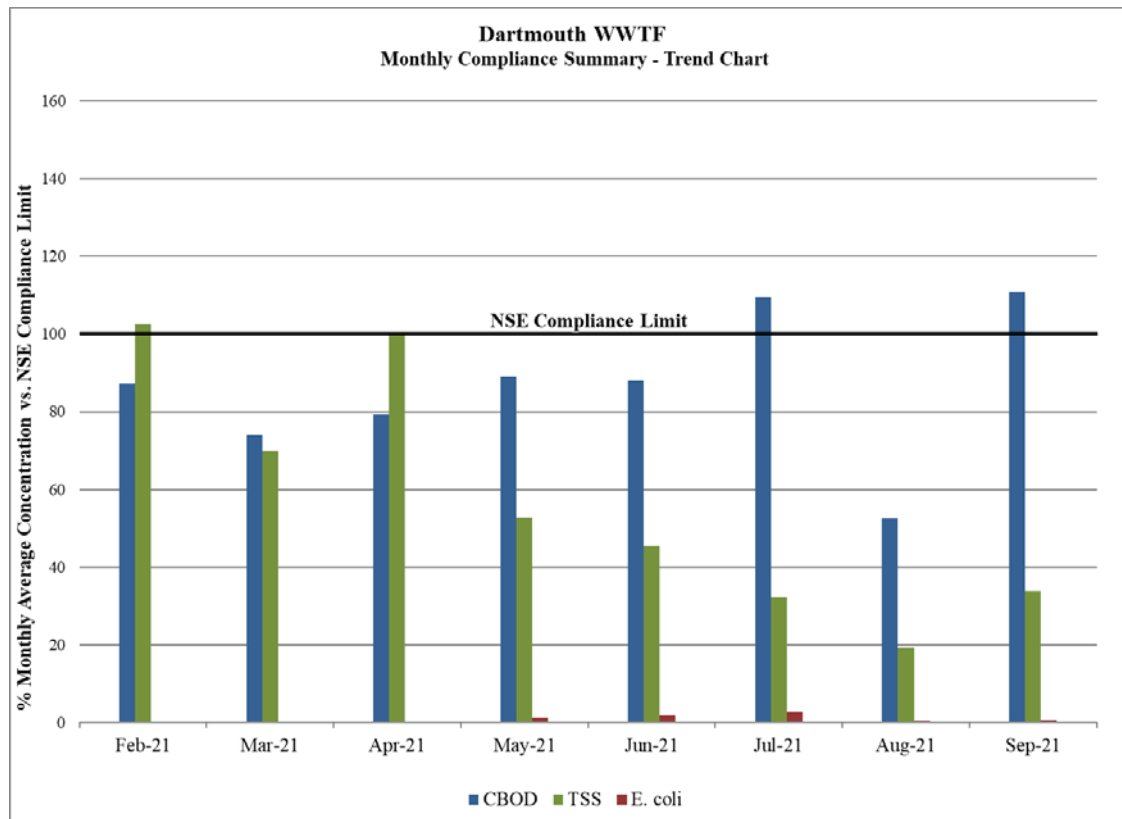
Lower numbers represent better performance.



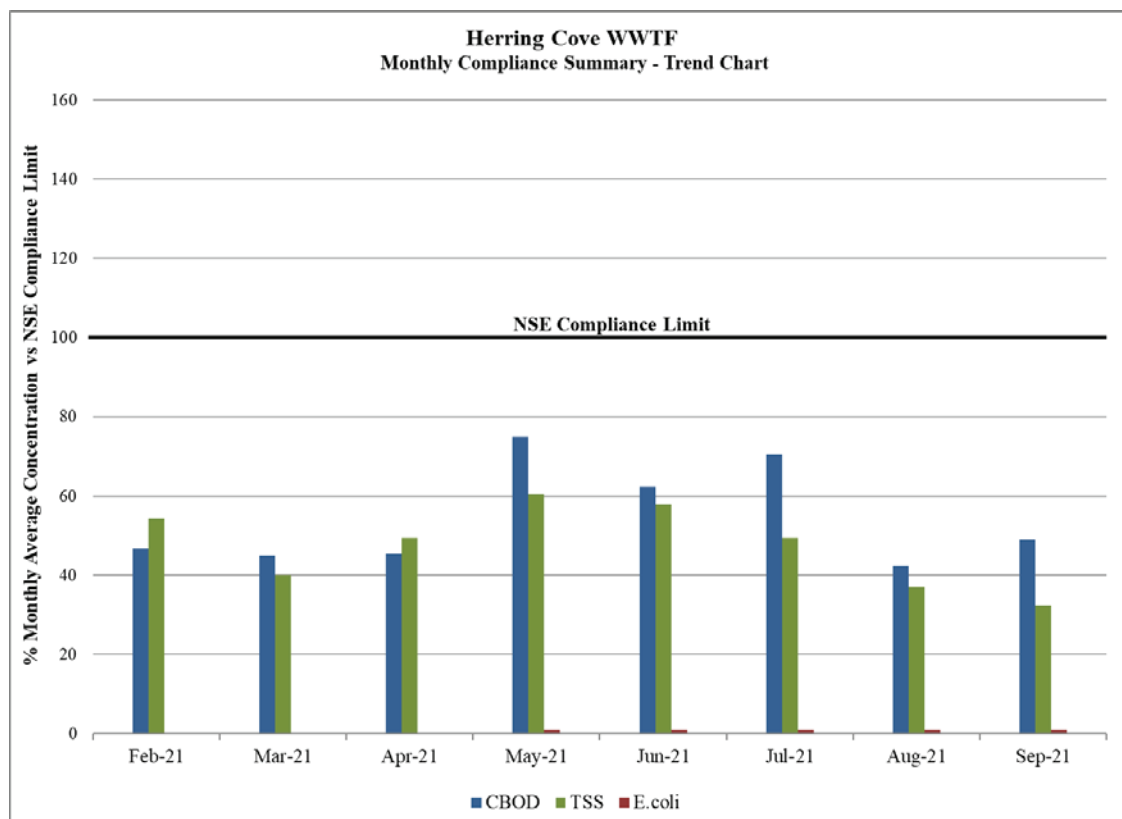
Lower numbers represent better performance.



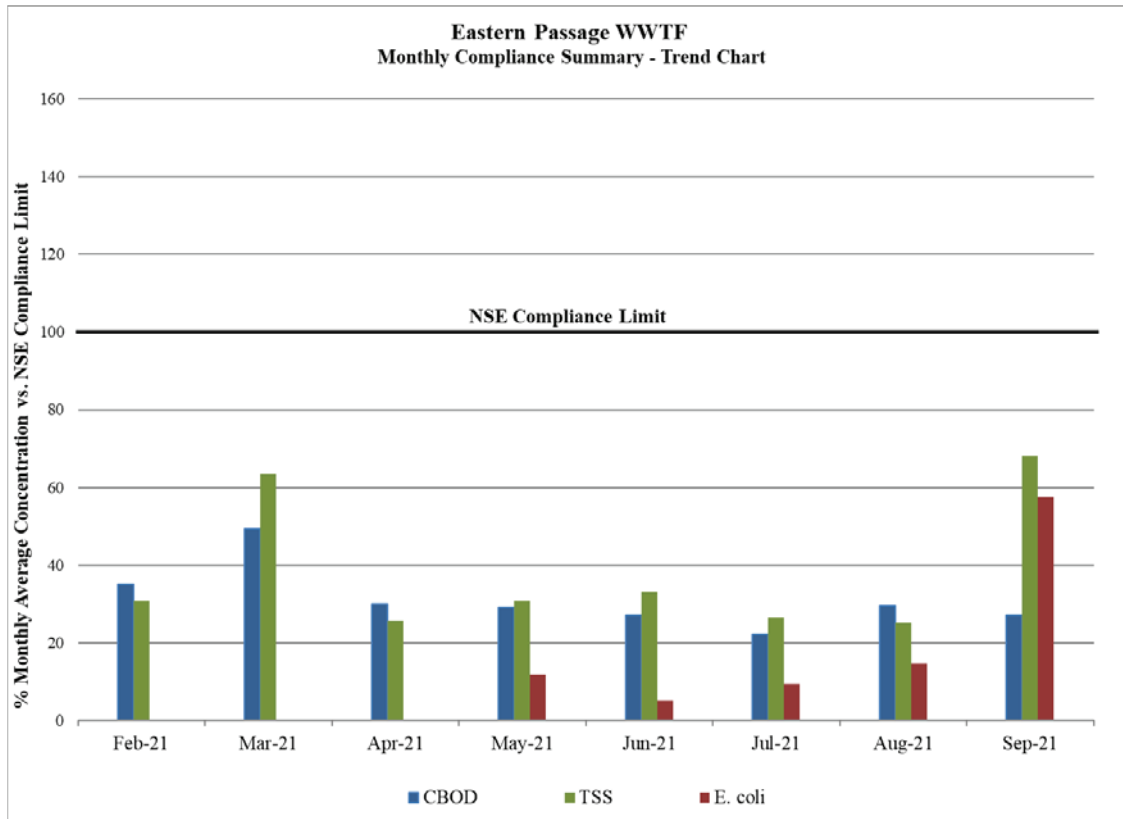
Lower numbers represent better performance.



Lower numbers represent better performance.



Lower numbers represent better performance.




Lower numbers represent better performance.


Halifax Water Compliance Statement
Quarterly Certification

For the period of July 1, 2021 to September 30, 2021


We hereby certify that the Halifax Regional Water Commission is current in making all statutory remittances for payroll taxes, Harmonized Sales Tax and other remittances as required under the laws of the Government of Canada and its Provinces (the significant remittances are noted in the appendix) and that all significant legal claims have been disclosed.

 Digitally signed by Cathie
O'Toole
Date: 2021.11.19
08:32:27 -04'00'

Cathie O'Toole, MBA, FCPA, FCGA, ICD.D
General Manager

 Digitally signed by Louis
de Montbrun
Date: 2021.11.18
15:12:01 -04'00'

Louis de Montbrun, CPA, CA
Director, Corporate Services/CFO and
Corporate Treasurer

 Digitally signed by Heidi
Schedler
Date: 2021.11.18
14:58:48 -04'00'

Heidi Schedler
General Counsel and Corporate Secretary

Dated:

November 18, 2021

Halifax Water Compliance Statement
Quarterly Certification
Appendix I

Significant statutory remittances for payroll taxes, Harmonized Sales Tax and other remittances as required under the laws of the Government of Canada and its Provinces for the Halifax Regional Water Commission.

Statutory Payroll Remittances

- **Canada Revenue Agency (CRA)** - Statutory employee payroll deductions and employer related contributions for:
 - Income Tax
 - Canada Pension Plan (CPP)
 - Employment Insurance (EI)
- **Workers' Compensation Board of Nova Scotia (WCB)** – Employer remittance based on employee payroll

Other Payroll Remittances

- **Northern Trust** - Employee payroll deductions and employer contributions to Halifax Water and HRM defined benefit pension plans
- **Industrial Alliance** – employer and employee contributions to defined contribution pension plan
- **Medavie Blue Cross & SSQ** – employee payroll deductions and employer related contributions for Health & dental, LTD, and Life benefit coverage, and payroll deductions for AD&D
- **Canadian Union of Public Employees** – Employee payroll deductions of union dues
 - CUPE Local 227
 - CUPE Local 1431

HST and Other Remittances

- **Canada Revenue Agency (CRA)** - Harmonized Sales Tax (HST) is filed online and a refund issued as HST paid is greater than HST collected
- **Workers' Compensation Board of Nova Scotia (WCB)** – Remittance for sub-contractors

Quarterly Remittance Certification
Appendix II

Period: July to Sept 2021

<u>Vendor</u>	<u>Vendor #</u>	<u>Items Remitted</u>	<u>Total remitted</u>	<u>Exceptions</u>
Statutory Payroll Remittances				
CRA	174	Tax, CPP, EI, WCB	<u>\$3,459,119.86</u>	<u></u>
Other Payroll				
Northern Trust	1215	HW Pension Plan	<u>\$ 1,550,596.13</u>	<u></u>
Northern Trust	1216	HRM Pension Plan	<u>\$ 239,450.47</u>	<u></u>
Manulife Financial	1171	Bedford Pension Plan	<u>\$ 1,804.56</u>	<u></u>
Industrial Alliance	2971	DCPP	<u>\$ 3,840.04</u>	<u></u>
Medavie Blue Cross	340, 3101	Health, Dental, Life, LTD	<u>\$ 492,521.90</u>	<u></u>
SSQ Insurance	429	AD&D	<u>\$ 5,114.40</u>	<u></u>
CUPE	160	Union Dues 1431	<u>\$ 19,574.39</u>	<u></u>
CUPE	161	Union Dues 227	<u>\$ 34,112.08</u>	<u></u>

Other payroll not noted


United Way, Credit Union, Garnishments (WCB, CRA, Family Court, Sherriff's Office),
Water for People, Salvation Army, Racially Visible Caucus

HST and Other


CRA	N/A	HST (refunds)	<u>\$ (1,197,277.42)</u>	<u></u>
Receiver General	210	WCB subcontractors	<u>\$ 414.40</u>	<u></u>

Exceptions, errors and/or late remittances

TO: Becky Kent, B.A., Chair, and Members of the Halifax Regional Water Commission Board as Trustees of the Halifax Regional Water Commission Employees' Pension Plan

SUBMITTED BY:  Digitally signed by Louis de Montbrun
Date: 2021.11.18 20:07:45 -04'00'

Louis de Montbrun, CPA, CA,
Director, Corporate Services / CFO

APPROVED:  Digitally signed by Cathie O'Toole
Date: 2021.11.19 08:30:33 -04'00'

Cathie O'Toole, MBA, FCPA, FCGA, ICD.D
General Manager

DATE: November 9, 2021

SUBJECT: **Halifax Regional Water Commission Employees' Pension Plan
Financial Report Third Quarter, 2021**

INFORMATION REPORT

ORIGIN

Financial reporting for the Halifax Regional Water Commission Employees' Pension Plan (hereinafter called the "Plan").

BACKGROUND

The Board is required to review the periodic (quarterly) financial results of the Plan throughout the year.

DISCUSSION

The attached statement of changes in net assets available for benefits (Appendix A) outlines the annual budget for the Plan and actual financial performance for the Third Quarter (January 1 to September 30, 2021). Favourable or unfavourable variances reported compare actual results to pro-rated budget amounts, for the nine (9) month period ending September 30, 2021. Yearend audited results for 2019 and 2020 are shown for comparative purposes.

As shown on the statement of changes in net assets available for benefits, net assets available for benefits have increased by \$11.6 million for the nine (9) month period ending September 30, 2021. The pro-rated budget called for an increase in net assets available of \$7.4 million resulting in a favourable variance of approximately \$4.2 million.

The revenue budgeted for the year was \$8.6 million. Revenue for the period totaled \$10.8 million, which when compared to the pro-rated budget of \$6.4 million results in a favourable variance of \$4.4 million.

Performance of the HRM Master Trust directly drives the revenue figures reported and change tends to be more volatile compared to contributions and expenses of the Plan. This variance is attributed directly to the actual increase in the fair value of the investment assets being higher than expected. The increase in the fair value for the period totaled \$8.5 million compared to the prorated budget of \$3.8 million, a difference of \$4.7 million or 123%. Investment income for the period performed below expectations, showing an unfavorable variance of \$0.3 million or 12%.

Contributions of \$5.1 million are on budget for the period.

Expenses of \$4.3 million for the period are higher than the pro-rated budget of \$4.1 million resulting in an unfavourable variance of approximately \$0.2 million or 3%. The main contributor to this variance is termination payments which are higher than the pro-rated budget estimate.

Benefit payments are lower than the pro-rated budget by \$0.1 million due to fewer retirements than expected.

SERVICE STANDARDS

Tracking of Regulatory Filing Requirements, Administrative Reporting Requirements and Service Standards for actuarial calculation requests is ongoing. The reports for Regulatory Filing Requirements and Administrative Reporting Requirements are attached as Appendix B and Appendix C respectively, and document administrative compliance within the various levels of reporting for the period.

Service Standard results for the Third Quarter (July 1st to September 30, 2021) have been attached as Appendix D. The primary purpose of the service standard report is to report on the administrative compliance with the Pension Benefits Act of Nova Scotia (the “Act”) respecting the timing of statements or notifications required under the Act, such as:

- Retirement statement to member;
- Notification of options to retiring member;
- Death benefits statement; and
- Statement on termination

A secondary purpose of the report is to provide performance reporting respecting the Plan's actuaries, for required deliverables based on pre-determined standards. These standards are internal in nature, and mutually agreed upon by the actuary and Halifax Water.

Third Quarter results reported in Appendix D show, for the 1 request submitted for retirement estimates (with options), the retirement package was provided to the member within the prescribed timelines under the Act, 60 days prior to the Member's intended retirement date. There were 2 terminations during the period, with each terminated employee provided a termination package (with options) within the prescribed timelines under the Act, within 60 days after their termination date.

Performance of the actuary, also reported in Appendix D, shows out of 3 requests in total, the actuary met the pre-determined standard in 2 instances, with average response times for retirement and termination calculation estimates of 4 days and 9 days respectively. The response time of the actuaries is continuously monitored to ensure required service standards are maintained.

ATTACHMENTS

APPENDIX A – Financial Report:

Statement of changes in net assets available for benefits, for the nine (9) month period ended September 30, 2021

APPENDIX B – Regulatory Filing Requirements – Q3 2021

APPENDIX C – Administrative Reporting Requirements – Q3 2021

APPENDIX D – Service Standards Report – Q3 2021

Report Prepared by:

**Heather
Britten**

Digitally signed by
Heather Britten
Date: 2021.11.18
15:46:41 -04'00'

Heather Britten, Quality Assurance Officer 902-490-1895

Halifax Regional Water Commission Employees' Pension Plan
Statement of changes in net assets available for benefits
For the nine (9) month period ended September 30, 2021

Benchmark 75%

	September 30, 2021						
			Prorated Budget	Variance Actual versus Prorated Budget		Actual (Audited) 2020	Actual (Audited) 2019
	2021 Budget	Actual	75%	Favourable (Unfavourable) \$	%		
Revenue							
Net investment income:							
Total investment income	\$3,700,000	\$2,440,650	\$2,775,000	(\$334,350)	(12%)	\$3,763,614	\$3,644,079
Investment manager fees	(\$220,000)	(\$170,699)	(\$165,000)	(\$5,699)	3%	(\$194,968)	(\$202,574)
Increase (decrease) in the fair value of investment assets	\$5,100,000	\$8,548,577	\$3,825,000	\$4,723,577	123%	\$8,630,589	\$10,642,209
	<u>\$8,580,000</u>	<u>\$10,818,527</u>	<u>\$6,435,000</u>	<u>\$4,383,527</u>	<u>68%</u>	<u>\$12,199,235</u>	<u>\$14,083,715</u>
Contributions							
Participants:							
Current service (including Additional Voluntary Contribution's)	\$3,417,000	\$2,571,067	\$2,562,750	\$8,317	0%	\$3,310,113	\$3,463,328
Sponsors:							
Current service	\$3,332,000	\$2,503,995	\$2,499,000	\$4,995	0%	\$3,230,131	\$2,972,138
	<u>\$6,749,000</u>	<u>\$5,075,063</u>	<u>\$5,061,750</u>	<u>\$13,313</u>	<u>0%</u>	<u>\$6,540,244</u>	<u>\$6,435,466</u>
Expenses							
Benefit payments:							
Benefit payments	\$4,866,000	\$3,526,371	\$3,649,500	\$123,129	3%	\$4,552,474	\$4,226,855
Termination payments	\$500,000	\$653,507	\$375,000	(\$278,507)	(74%)	\$677,237	\$960,187
Administrative:							
Actuarial & consulting fees	\$55,000	\$7,990	\$41,250	\$33,260	81%	\$42,143	\$118,659
Audit & accounting fees	\$9,000	\$0	\$6,750	\$6,750	100%	\$8,648	\$8,530
Bank custodian fees	\$30,000	\$21,476	\$22,500	\$1,024	5%	\$30,479	\$28,636
Insurance	\$9,000	\$9,636	\$6,750	(\$2,886)	(43%)	\$9,636	\$8,760
Miscellaneous	\$20,000	\$15,996	\$15,000	(\$996)	(7%)	\$16,724	\$20,610
Professional fees	\$20,000	\$31,254	\$15,000	(\$16,254)	(108%)	\$23,151	\$23,261
Registration fees	\$3,000	\$0	\$2,250	\$2,250	100%	\$2,645	\$2,500
Training (Trustees/ Administration/ Pension Committee)	\$2,000	\$0	\$1,500	\$1,500	100%	\$0	
	<u>\$5,514,000</u>	<u>\$4,266,230</u>	<u>\$4,135,500</u>	<u>(\$130,730)</u>	<u>(3%)</u>	<u>\$5,363,136</u>	<u>\$5,397,997</u>
Increase in net assets available for benefits	<u>\$9,815,000</u>	<u>\$11,627,360</u>	<u>\$7,361,250</u>	<u>\$4,266,110</u>	<u>58%</u>	<u>\$13,376,343</u>	<u>\$15,121,184</u>
Net assets available for benefits, beginning of period	\$154,956,156	\$154,956,156				\$141,579,813	\$126,458,630
Increase in net assets available for benefits	<u>\$9,815,000</u>	<u>\$11,627,360</u>				<u>\$13,376,343</u>	<u>\$15,121,184</u>
Net assets available for benefits, end of period	<u>\$164,771,156</u>	<u>\$166,583,516</u>				<u>\$154,956,156</u>	<u>\$141,579,813</u>

For the purposes of this statement, expenses are reported on a cash basis. Comparative years are reported on an accrual basis as that is how they are reported on the financial statements.

Item 3-I

Halifax Water Board
November 25, 2021
APPENDIX B

Halifax Regional Water Commission Employees' Pension Plan Regulatory Filing Requirements - 2021 as at September 30, 2021

Report	Regulatory Body	Filing Deadline	Date last filed	Comments
1 Annual Form 3 - Summary of Contributions	Superintendent of Pensions	60 days after the beginning of each fiscal year	January 29, 2021	Filed directly with the Trustee, Northern Trust, for the DB Plan.
			January 29, 2021	Filed directly with the Trustee, Industrial Alliance, for the DC Plan.
2 Pension Plan Income Tax Return (T3)	Canada Revenue Agency	March 31st	March 1, 2021	CRA requires Northern Trust as the custodian to prepare and file T3 Income Tax Returns each year. Information obtained from HRM Pension Plan quarterly report.
3 Pension Plan Audited Financial Statements	Superintendent of Pensions	6 months after the Plan's fiscal year end	June 30, 2021	Audited financial statements were completed and approved by the HW Board on June 17th, 2021 and subsequently forwarded to the regulatory body.
			June 15, 2021	Audited financial statements are not prepared for this pension plan. However, Industrial Alliance provides a Financial Report detailing all pertinent details of the plan. This report is submitted to the regulatory body prior to June 30th each year.
4 Annual Information Returns (AIR)	Superintendent of Pensions	June 30th	June 30, 2021	DB Plan
			June 15, 2021	DC Plan
5 Actuarial Valuation*	Superintendent of Pensions Canada Revenue Agency	September 30th	September 27, 2019 September 27, 2019	Actuarial Valuation was conducted as of January 1, 2019.
6 Plan Amendments	Superintendent of Pensions Canada Revenue Agency Superintendent of Pensions Canada Revenue Agency	60 days after the amendment approved by the Board 60 days after the amendment approved by the Board	September 27, 2019 September 27, 2019 n/a	Amendment #12 approved by the Board June 20, 2019; Submitted to the Superintendent September 27, 2019. The amendment was pursuant to the contribution rate change as dictated by the Actuarial Valuation of January 1, 2019. All documents relating to the registration of the DC Plan were received by the Superintendent October 6, 2017.

* Actuarial Valuations are required at a minimum every three (3) years.

** Notional Agreements were implemented during 2017 with an effective date for January 1, 2017. Notional Agreements are not registered therefore not subject to reporting requirements to a regulatory body.

**Halifax Regional Water Commission Employees' Pension Plan
Administrative Reporting Requirements - 2021
as at September 30, 2021**


Report	Filing Deadline/ Recurrence	Date last filed/ Performed	Comments
1 Pensioners' Payroll	Monthly	November 1, 2021	Pensioners are paid the 1st of each month; no exceptions to report for the Third Quarter 2021.
2 Contributions to the Trustee	Monthly	November 9, 2021	Remittances due to Northern Trust within 30 days of month end; no exceptions to report for Third Quarter 2021.
		November 2, 2021	Remittances due to Industrial Alliance within 30 days of month end; no exceptions to report for Third Quarter 2021.
		n/a	Notional Agreement* There are no contributions made to this plan.
3 Pension Plan Financial Statements	Quarterly	November 25, 2021	Third Quarter (January - September 2021)
		November 25, 2021	A periodic financial report is now prepared for the Defined Contribution (DC) Plan with the most recent being for the period January 1 - October 31, 2021. A financial report is prepared by Industrial Alliance and that report is filed with the Annual Information Return (AIR) to the regulator annually.
		n/a	Notional Agreement* Financial statements not required.
4 Investment Performance Review & Compliance with SIP&P	Quarterly	September 23, 2021	Second Quarter (January - June 2021) Report prepared quarterly by administration staff for the HW Board of Directors, in conjunction with the quarterly HRM Pension Plan Committee meeting documentation. Statement of Investment Policies & Procedures (SIP&P) is reviewed annually and was last reviewed and approved on March 25, 2021.
5 Annual Pension Statements to Members	June 30th	June 23, 2021	Statements issued annually by June 30th.
		June 23, 2021	Statements issued annually in conjunction with the Defined Benefit (DB) Plan statements. Members also have access to online, real-time reporting.
		June 23, 2021	Statements issued annually in conjunction with the DB Plan statements.
6 Fiduciary Liability Insurance	Annually	October 22, 2021	Reviewed and renewed annually by administration staff. The policy period expires November 30 each year.

* Notional Agreements were implemented during 2017 with an effective date for January 1, 2017. Notional Agreements are not registered therefore not subject to reporting requirements to a regulatory body.


Halifax Regional Water Commission Employees' Pension Plan
Service Standards Report - 2021

Quarter 3 (as at September 30, 2021)										
Transaction	Standard	Actuary			HW Staff			Compliance with PBA	Total Average Service Days	
		Total # Completed	# Past Standard	% within Standard	Average Service Days	Total # Completed	Average Service Days			
Retirement Estimates	11 Business Days	1	0	100%	4	1	7	Yes	11	
Marriage Breakdown Calculations	15 Business Days									
Post-Retirement Death Letter	15 Business Days									
Pre-Retirement Death Benefit	15 Business Days									
Termination Estimate Calculations										
- Standard	11 Business Days	2	1	50%	9	2	11	Yes	20	
- Non Standard (Incl RTAs)	15 Business Days									
Total for Actuary		3	1	67%		3				

TO: Becky Kent, B.A., Chair, and Members of the Halifax Regional Water Commission Board as Administrators for Halifax Water's Supplemental Pension Benefit Plans

SUBMITTED BY:  Digitally signed by Louis de Montbrun
Date: 2021.11.19 11:19:55 -04'00'

Louis de Montbrun, CPA, CA,
Director, Corporate Services / CFO

APPROVED:  Digitally signed by Cathie O'Toole
Date: 2021.11.19 09:22:43 -04'00'

Cathie O'Toole, MBA, FCPA, FCGA, ICD.D
General Manager

DATE: November 9, 2021

SUBJECT: **Halifax Water Supplemental Pension Plan Report**

INFORMATION REPORT

ORIGIN

On April 28, 2016, the Halifax Water Board (the "Board") approved the creation of a Supplementary Pension Benefit Framework in line with Halifax Regional Municipality's Defined Contribution Savings plan (Item #2Cb) for non-union staff members, to become effective January 1, 2017.

BACKGROUND

The Halifax Regional Water Commission Employees' Pension Plan (the "DB Plan") is a registered, defined benefit plan providing pension benefits on pensionable earnings capped at \$140,950, which represents the Canada Revenue Agency (CRA) maximum annual pensionable earnings as of January 1, 2015. This cap will remain in place for a period of 8 years starting in 2015, and will increase 1% thereafter.

Pursuant to the framework approved by the Board as noted above, the Halifax Water Employees' Defined Contribution Plan (the "DC Plan") and a Notional Retirement Compensation Arrangement (the "NRCA") were established, effective January 1, 2017.

1. DC Plan:

A registered, defined contribution plan providing pension benefits on members' pensionable earnings between the DB Plan cap and CRA maximum, annual pensionable earnings threshold. Members contribute at a rate of 9% of pensionable earnings, which is matched by Halifax Water.

2. NRCA:

A non-registered agreement with individual members which provides pension benefits on members' earnings over the CRA maximum, annual pensionable earnings threshold. The NRCA is a non-contributory arrangement between Halifax Water and individual members. Halifax Water contributes 9% of a members eligible earnings annually, holding these funds in trust for members until their retirement, termination or death. Interest applied to members' accounts is based on the annual Canadian Socio-Economic Information Management System (CANSIM) rate released by Statistics Canada.

DISCUSSION

The Financial Report from Industrial Alliance (see Appendix A attached) reports the revenues and disbursements for the DC Plan during the January 1, 2021 to October 31, 2021 period. The balance at the beginning of the period was \$33.2 thousand. Revenues for the period consisted of new deposits of \$5.7 thousand, and investment revenue of \$3.2 thousand. Disbursements totaled \$8.2 thousand, leaving a balance at the end of the period of \$33.9 thousand.

As of December 31, 2020, the liability with respect to NRCA member accounts was \$48.4 thousand, with contributions of \$15.5 thousand in 2020, and interest applied totaling \$0.3 thousand. For further details on the NRCA, see Appendix B attached.

ATTACHMENTS

Appendix A Industrial Alliance Financial Group, Financial Report for the Halifax Water Employees' Defined Contribution Plan – January 1, 2021 to October 31, 2021

Appendix B Notional Retirement Compensation Arrangement Dashboard at December 31, 2020

Report Prepared by:

**Heather
Britten**

Digitally signed by
Heather Britten
Date: 2021.11.19
09:13:07 -04'00'

Heather Britten, Quality Assurance Officer 902-490-1895

Period from January 1, 2021 to October 31, 2021

Contract 42730-001
Summary of transactions

	<u>Book value</u>	<u>Market value</u>
Balance at the beginning of the period	\$ 33,225.12	\$ 33,225.12
Revenues		
New deposits	\$ 5,710.50	\$ 5,710.50
Investment revenues	\$ 3,192.62	\$ 3,192.62
Total revenues	\$ 8,903.12	\$ 8,903.12
Disbursements		
Deaths, withdrawals, other	\$ 7,787.50	\$ 7,787.50
Fees	\$ 357.58	\$ 357.58
Taxes	\$ 41.46	\$ 41.46
Total disbursements	\$ 8,186.54	\$ 8,186.54
Balance at the end of the period	\$ 33,941.70	\$ 33,941.70

Item 4-I

Halifax Water Board

November 25, 2021

Appendix B

**Halifax Water
Notional Retirement Compensation Arrangement**

Annual Summary				
Year	Opening Balance	Contributions	Interest Earned	Closing Balance
2017	\$0.00	\$10,070.37	\$7.79	\$10,078.16
2018	\$10,078.16	\$10,149.62	\$121.76	\$20,349.53
2019	\$20,349.53	\$11,878.05	\$310.44	\$32,538.03
2020	\$32,538.03	\$15,508.59	\$338.48	\$48,385.10