

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2019 Capex Budget	Board Approved 2019 Capex Budget, Revised 8/24/19	Eligible for 2020 QCPAC Surcharge	Estimated Project Costs as of 6/30/2019	Estimated Project Cost as of 9/30/2019	Estimated Project Cost as of 11/30/2019	Final Project cost as of 12/31/2019	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense (Based on Qrtly Update)	Explanation for Change/Addition/Deletion since Petition Filing
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 46,000	\$ 46,000	Yes	\$ 46,000	\$ 36,000	\$ 58,000	\$ 69,936	Various	Yes	\$ 27.02	\$ 1,890	10 installed through 11/30. Projecting 1 more by year end.
Renewed Services (20)	Replacement of failed services	21, 22 & 23 workorders	DW17-183	26,101	2/2/2018	\$ 92,000	\$ 92,000	Yes	\$ 92,000	\$ 96,000	\$ 103,000	\$ 101,648	Various	Yes	\$ 27.02	\$ 2,747	27 replaced through 11/30. Projecting 1 more by year end.
Hydrants (10)	Replacement of non functional hydrants	30 & 31 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	\$ 50,000	Yes	\$ 50,000	\$ 36,000	\$ 42,000	\$ 40,209	Various	Yes	\$ 27.02	\$ 1,086	6 installed through 12/30. Projecting 1 more by year end.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 40,000	Yes	\$ 40,000	\$ 12,000	\$ 12,000	\$ 10,573	Various	Yes	\$ 27.02	\$ 286	3 installed through 12/30. Projecting 1 more by year end.
Radios (2750)	Replace out of warrantee failed radio meter readers	54 workorders	DW17-183	26,101	2/2/2018	\$ 275,000	\$ 30,000	Yes	\$ 30,000	\$ 42,500	\$ 48,000	\$ 48,942	Various	Yes	\$ 27.02	\$ 1,322	Deferred Radio Replacement program (Radios are 12 years old). 441 replaced through 12/30. Projecting 40 more by year end.
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)	50 workorders	DW17-183	26,101	2/2/2018	\$ 48,000	\$ 48,000	Yes	\$ 48,000	\$ 240,000	\$ 200,000	\$ 207,025	Various	Yes	\$ 27.02	\$ 5,594	1605 installed/repalced through 9/30. Projecting 200 more by year end.
Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	50 workorders	DW17-183	26,101	2/2/2018	\$ 300,000	\$ 300,000	Yes	\$ 300,000				Various	Yes	\$ 27.02	\$ -	
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence	1901598	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,000	Yes	\$ 75,000	\$ 75,000	\$ 75,000	\$ 66,204	Merrimack	Yes	\$ 28.86	\$ 1,911	
Replace 13 yr Vac Trailer - Safety & Maint issue	Replace 13 yr Vac Trailer - Safety & Maint issue	1917721	DW17-183	26,101	2/2/2018	\$ 100,000	\$ -	Yes	\$ -	\$ -	\$ 29,710	\$ 29,710	Merrimack	Yes	\$ 28.86	\$ 857	Then Company was leasing a vac machine for 2019. It was decided to buy out the lease
Protectus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade	n/a	DW17-183	26,101	2/2/2018	\$ 21,000	\$ 21,000	Yes	\$ 21,000	\$ 21,000	\$ -		Nashua	Yes	\$ 26.23	\$ -	Deferred until 2020
Pipe Freeze Kits (2)	RoFrost Turbo 2 Electric Pipe Freeze Kts	1915135	DW17-183	26,101	2/2/2018	\$ -	\$ 7,400	Yes	\$ 7,400	\$ 7,400	\$ 6,970	\$ 6,970	Nashua	No	\$ 26.23	\$ -	Existing Freeze kits have failed and not repairable 15+ years old
Network Digital Display Installation	Relocate & network display to Assignment room & new 75" display in Conference Rm	n/a	DW17-183	26,101	2/2/2018	\$ -	\$ 2,700	Yes	\$ 2,700	\$ 2,700	\$ 2,597	\$ -	Merrimack	No	\$ 28.86	\$ -	New technology available to display department information digitally
Plate Compactors (4)	Replacement of failed compactors unable to obtain repair parts	1918551	DW17-183	26,101	2/2/2018	\$ -	\$ 17,500	Yes	\$ 17,500	\$ 17,500	\$ 15,888	\$ 15,888	Nashua	No	\$ 26.23	\$ -	Existing units have failed and parts for repair are not available.
Network Digital Display	Network Digital Display	1917719	0.1 DSRR					No	\$ -	\$ 1,323	\$ 2,597	\$ -	Merrimack	No	\$ 28.86	\$ -	Existing steel sander rusted through and was replaced with new sander
Poly-Caster Sander	Poly-Caster Sander	1917720	DW17-183	26,101	2/2/2018			Yes	\$ -	\$ 7,460	\$ 7,460	\$ 7,460	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#313)	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907613	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969	\$ 1,969	\$ 1,969	\$ 1,969	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907612	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969	\$ 1,969	\$ 1,969	\$ 1,969	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907615	0.1 DSRR			\$ -	\$ 2,542	No	\$ 2,542	\$ 2,542	\$ 2,542	\$ 2,542	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#347)	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907987	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	\$ 1,060	\$ 1,060	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#348)	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907988	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	\$ 1,060	\$ 1,060	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	

2018 Dodge Ram Promaster 1500 Cargo Van (#349)	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907989	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	\$ 1,060	\$ 1,060	\$ 1,060	Merrimack	No	\$ 28.92	\$ -	
Meter Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC	1907885	0.1 DSRR			\$ -	\$ 2,849	No	\$ 2,849	\$ 2,849	\$ 2,849	\$ 2,850	Various	Yes	\$ 27.02	\$ 77	Equipment used in leak detection
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL	1607377, 1702856, 1806433, 1901176	DW17-183	26,101	2/2/2018	\$ 550,000	\$ 615,000	Yes	\$ 615,000	\$ 718,063	\$ 661,000	\$ 661,270	Nashua	Yes	\$ 26.23	\$ 17,345	Pavement contribution to the City of Nashua paid in 2018 (\$127,264)
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL	1702871, 1812907, 1901599	DW17-183	26,101	2/2/2018	\$ 559,350	\$ 255,000	Yes	\$ 255,000	\$ 378,600	\$ 378,600	\$ 373,328	Nashua	Yes	\$ 26.23	\$ 9,792	Pavement contribution to City of Nashua of \$67,650 included
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL	1702866, 1812908, 1901602	DW17-183	26,101	2/2/2018	\$ 122,270	\$ 120,000	Yes	\$ 120,000	\$ 174,926	\$ 105,000	\$ 97,541	Nashua	Yes	\$ 26.23	\$ 2,558	Pavement contribution to City of Nashua of \$18,000 included
Garden Street	Replace 74 LF of 8" CIP with 8 inch DIPCL and reconnect City Hall Fire serviced missed during Elm St work	1918487	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ -	\$ 97,000	\$ 61,918	Nashua	Yes	\$ 26.23	\$ 1,624	Connecting Nashua City Hall sprinkler connection that was missed during the Elm St project. Also replaces a portion of the Garden Street water main. Per City almost all work had to be performed on Sunday nights. Final pavnig in Spring 2020 \$18,000 not included.
W.Pearl Street	Replace 260 LF of 8 inch CI with 8 inch DIPCL	1702869, 1812909, 1901603	DW17-183	26,101	2/2/2018	\$ 138,050	\$ 140,000	Yes	\$ 140,000	\$ 224,486	\$ 175,000	\$ 178,120	Nashua	Yes	\$ 26.23	\$ 4,672	Pavement contribution to City of Nashua of \$27,200 included
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL	1814742, 1901604	DW17-183	26,101	2/2/2018	\$ 247,500	\$ 249,200	Yes	\$ 249,200	\$ 249,200	\$ 260,000	\$ 259,668	Nashua	Yes	\$ 26.23	\$ 6,811	Pavement contribution to City of Nashua of \$38,000 included.
West Hollis Street Check Valve Pit	Install at the int of W. Hollis St and Panther Dr.	n/a	DW17-183	26,101	2/2/2018	\$ 88,000	\$ -	Yes	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 26.23	\$ -	Deferred to future year to accommodate additional water main projects
NWS Improvements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805, 1900422				\$ 660,000	\$ 660,000	Yes	\$ 660,000	\$ 730,000	\$ 650,000	\$ 507,141	Nashua	Yes	\$ 26.23	\$ 13,302	Added security fence replacement (1,700 LF) along Manchester Street - some work will carry over into 2020 included
NWS Improvements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop	1806810, 1901607				\$ 550,000	\$ 550,000	Yes	\$ 550,000	\$ 550,000	\$ 694,000	\$ 548,252	Nashua	Yes	\$ 26.23	\$ 14,381	Adjusted cost based on final installed materials- some work will carry over into 2020 included
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL	1702835, 1806434, 1900421	DWGTFFinancing DW18-133	26,197	12/3/2018	\$ 522,500	\$ 522,500	Yes	\$ 522,500	\$ 526,000	\$ 490,000	\$ 369,378	Nashua	Yes	\$ 26.23	\$ 9,689	Adjusted cost based on final installed materials- some work will carry over into 2020 included
NWS Improvements - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL	1806808, 1901609				\$ 467,500	\$ 467,500	Yes	\$ 467,500	\$ 480,000	\$ 140,000	\$ 158,469	Nashua	Yes	\$ 26.23	\$ 4,157	Adjusted cost based on final installed materials- some work will carry over into 2020 included
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking	1806806, 1901610				\$ 635,800	\$ 635,800	Yes	\$ 635,800	\$ 655,000	\$ 1,338,000	\$ 1,302,871	Nashua	Yes	\$ 26.23	\$ 34,174	Adjusted cost based on final installed materials- some work will carry over into 2020 included
NWS Improvements Ponemah Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends	1901611				\$ 484,000	\$ 484,000	Yes	\$ 484,000	\$ -	\$ -	\$ -	Nashua	Yes	\$ 26.23	\$ -	Project cancelled and replaced with piping in projects above
			0.1 DSRR									\$ 174,347			\$ -	\$ -	
City of Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL	1829925, 1900484	DW17-183	26,101	2/2/2018	\$ 176,000	\$ 190,000	Yes	\$ 190,000	\$ 174,882	\$ 175,400	\$ 175,370	Nashua	Yes	\$ 26.23	\$ 4,600	Project Complete
City of Nashua Sewer - Ash Street	Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL	1814367, 1915975	DW17-183	26,101	2/2/2018	\$ 242,000	\$ 162,800	Yes	\$ 162,800	\$ 225,666	\$ 180,000	\$ 156,252	Nashua	Yes	\$ 26.23	\$ 4,098	Pavement contribution to City of Nashua of \$20,832 included
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL	1814740, 1915976	DW17-183	26,101	2/2/2018	\$ 990,000	\$ 1,710,500	Yes	\$ 1,890,050	\$ 1,780,000	\$ 1,610,000	\$ 1,608,850	Nashua	Yes	\$ 26.23	\$ 42,200	Pavement contribution to City of Nashua of \$344,000 included
City of Nashua Paving - Vilna St.	Replace 15 LF of 1.5 inch steel with 2 inch HDPE for paving program	1915860	DW17-183	26,101	2/2/2018	\$ -	\$ 16,750	Yes	\$ 16,750	\$ 20,566	\$ 20,566	\$ 17,400	Nashua	Yes	\$ 26.23	\$ 456	Includes final paving - complete

Interconnection to BWC	Carryover Costs to 2018 projects not recovered in prior QCPAC	1900429	0.1 DSRR			\$ -	\$ 3,400	No	\$ 3,400	\$ 3,400	\$ 3,400	\$ -	Nashua	Yes	\$ 26.23	\$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Woodward Avenue	Carryover Costs to 2018 projects not recovered in prior QCPAC	1910117	0.1 DSRR			\$ -	\$ 2,200	No	\$ 2,200	\$ 2,640	\$ 2,640	\$ -	Nashua	Yes	\$ 26.23	\$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Ritter Street	Carryover Costs to 2018 projects not recovered in prior QCPAC	1910116	0.1 DSRR			\$ -	\$ 6,890	No	\$ 6,890	\$ 10,000	\$ 10,000	\$ -	Nashua	Yes	\$ 26.23	\$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Factory Street	Carryover Costs to 2018 projects not recovered in prior QCPAC	1909270	0.1 DSRR			\$ -	\$ 20,209	No	\$ 20,209	\$ 24,250	\$ 20,209	\$ 20,209	Nashua	Yes	\$ 26.23	\$ 530	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Taylor Street	Carryover Costs to 2018 projects not recovered in prior QCPAC	1906988	0.1 DSRR			\$ -	\$ 233	No	\$ 233	\$ 233	\$ 233	\$ 233	Nashua	Yes	\$ 26.23	\$ 6	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Shakespeare HP System Exp	Carryover Costs to 2018 projects not recovered in prior QCPAC	1901942	0.1 DSRR			\$ -	\$ 257	No	\$ 257	\$ 257	\$ 257	\$ 257	Nashua	Yes	\$ 26.23	\$ 7	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
City of Nashua Paving - Mill St.	Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main	1915006	0.1 DSRR			\$ -	\$ 17,900	No	\$ 17,900	\$ 18,261	\$ 18,261	\$ 17,321	Nashua	No	\$ 26.23	\$ -	Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR
City of Nashua Paving - Ferryalls Ct	Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main	1908316	DW17-183	26,101	2/2/2018	\$ -	\$ 58,580	Yes	\$ 58,580	\$ 58,580	\$ 58,580	\$ 51,988	Nashua	Yes	\$ 26.23	\$ 1,364	Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete
City of Nashua Paving - Salvail Ct	Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area)	1908317	DW17-183	26,101	2/2/2018	\$ -	\$ 95,000	Yes	\$ 95,000	\$ 94,800	\$ 94,800	\$ 79,258	Nashua	Yes	\$ 26.23	\$ 2,079	Includes final paving - complete
City of Nashua Paving - Nutt St - Final Paving and restoration	Pavement restoration and final landscaping	1702842, 1907682	DW17-183	26,101	2/2/2018	\$ -	\$ 13,000	Yes	\$ 13,000	\$ 13,500	\$ 13,500	\$ 6,549	Nashua	Yes	\$ 26.23	\$ 172	\$6,240 of this will be recovered from Liberty Gas
City of Nashua Paving - Cheshire St - Final Cleanup	Fence repair and site clean up	1908353	DW17-183	26,101	2/2/2018	\$ -	\$ 1,400	Yes	\$ 1,400	\$ 1,400	\$ 1,400	\$ 486	Nashua	Yes	\$ 26.23	\$ 13	Completion of 2018 Workorder Project
City of Nashua - Simon St at Will St Upgrade	Abandon pump station pit and clean up intersection pipe work for improved flows	1915974	DW17-183	26,101	2/2/2018	\$ -	\$ 215,100	Yes	\$ 215,100	\$ 233,250	\$ 233,250	\$ 174,754	Nashua	Yes	\$ 26.23	\$ 4,584	Includes base paving - Finished paving required in 2020 not included
City of Nashua Paving - Main St.	Main St final paving at intersection with Factory St. Carry over from 2018	1900348, 1915859	DW17-183	26,101	2/2/2018	\$ -	\$ 24,500	Yes	\$ 24,500	\$ 24,500	\$ 24,500	\$ 1,402	Nashua	Yes	\$ 26.23	\$ 37	Final paving bill for this project.
City of Nashua Paving - Lemon St - Carry over from 2017	Paving only - Carry over from 2017	1702875, 1915858	DW17-183	26,101	2/2/2018	\$ -	\$ 24,850	Yes	\$ 24,850	\$ 24,850	\$ 19,000	\$ 18,316	Nashua	Yes	\$ 26.23	\$ 480	Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Lowell St - Carry over from 2017	Paving only - Carry over from 2017	1915857	DW17-183	26,101	2/2/2018	\$ -	\$ 37,000	Yes	\$ 37,000	\$ 40,000	\$ 36,180	\$ 37,084	Nashua	Yes	\$ 26.23	\$ 973	Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Green St - Carry over from 2017	Paving only - Carry over from 2017	1915844	DW17-183	26,101	2/2/2018	\$ -	\$ 10,000	Yes	\$ 10,000	\$ 11,000	\$ 9,500	\$ 8,906	Nashua	Yes	\$ 26.23	\$ 234	Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Beard St - Carry over from 2017	Paving only - Carry over from 2017	1915845	DW17-183	26,101	2/2/2018	\$ -	\$ 25,900	Yes	\$ 25,900	\$ 29,000	\$ 23,000	\$ 21,689	Nashua	Yes	\$ 26.23	\$ 569	Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Terrace St - Carry over from 2017	Paving only - Carry over from 2018	1915843	DW17-183	26,101	2/2/2018	\$ -	\$ 20,500	Yes	\$ 20,500	\$ 22,000	\$ 12,000	\$ 10,600	Nashua	Yes	\$ 26.23	\$ 278	Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Warren St - Carry over from 2017	Paving only - Carry over from 2017	1702870, 1915842	DW17-183	26,101	2/2/2018	\$ -	\$ 19,500	Yes	\$ 19,500	\$ 26,000	\$ 15,892	\$ 16,762	Nashua	Yes	\$ 26.23	\$ 440	Estimated paving contribution - Originally anticipated for 2020
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	1502180, 1601369, 1701489, 1807360, 1901612, 1908505	DW/GTF Financing DW19-026	26,247	5/3/2019	\$ 5,500,000	\$ 6,600,000	Yes	\$ 6,600,000	\$ 6,600,000	\$ 6,300,000	\$ 6,299,764	Merrimack	Yes	\$ 28.86	\$ 181,811	Bids higher than Engineers estimate due to tight contractor market and changes in final permit requirements that impacted initial design that engineers estimate was based on. \$300,000 of clean up work to be carried into 2020.

Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services	1900414	DW17-183	26,101	2/2/2018	\$ 60,000	\$ 60,000	Yes	\$ 60,000	\$ 20,000	\$ 20,000	\$ 7,961	Various	No	\$ 27.02	\$ -	
Asset Management Water Modeling Consulting	Water Modeling Consulting	1900414	DW17-183	26,101	2/2/2018	\$ 36,000	\$ 36,000	Yes	\$ 36,000	\$ 20,000	\$ 20,000	\$ -	Various	No	\$ 27.02	\$ -	
Asset Management Trimble R2 Units	Trimble R2 Units	1900414	DW17-183	26,101	2/2/2018	\$ 14,000	\$ 14,000	Yes	\$ 14,000	\$ -	\$ -	\$ -	Various	Yes	\$ 27.02	\$ -	
WAM/Synergen Upgrade Cost & Functionality Study	WAM/Synergen Upgrade Cost & Functionality Study	1900568, 1910219	0.1 DSRR			\$ -	\$ 45,000	No	\$ 45,000	\$ 45,000	\$ 45,000	\$ 27,804	Various	No	\$ 27.02	\$ -	Study to select replacement of Synergyn CMMS system which goes unsupported at the end of 2020.
Investment in developer installed services at 1xannual revenue	Per tariff	n/a	DW17-183	26,101	2/2/2018	\$ 60,000	\$ 60,000	Yes	\$ 60,000	\$ 85,000	\$ 85,000	\$ 90,434	Various	Yes	\$ 27.02	\$ 2,444	Projected based on \$75,935 paid out through 9/30.
2019 Ford Escape	Replace Totaled 2015 Ford Escape	1907481	DW17-183	26,101	2/2/2018	\$ -	\$ 23,998	Yes	\$ 23,998	\$ 23,988	\$ 23,988	\$ 23,998	Merrimack	No	\$ 28.86	\$ -	Vehicle in accident. Vehicle totalled and needed to be replaced.
Bower Dam reconstruction and engineering	Bower Dam reconstruction and engineering	1824545, 1900432	0.1 DSRR			\$ 25,000	\$ 25,000	No	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	Merrimack	No	\$ 28.86	\$ -	Design Engineering Work for 2020 Dam rehabilitation
Bowers Dam Letter of Deficiency design/analysis	perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity	1901734, 1907078	0.1 DSRR				\$ 35,000	No	\$ 35,000	\$ 35,000	\$ 35,000	\$ -	Merrimack	No	\$ 28.86	\$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam
Harris Dam Letter of Deficiency design/analysis	perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity	1907076	0.1 DSRR				\$ 40,000	No	\$ 40,000	\$ 40,000	\$ 40,000	\$ -	Merrimack	No	\$ 28.86	\$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam
Supply Pond Letter of Deficiency design/analysis	perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity	1907077	0.1 DSRR				\$ 35,000	No	\$ 35,000	\$ 35,000	\$ 35,000	\$ -	Merrimack	No	\$ 28.86	\$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 15,445	Yes	\$ 15,445	\$ 15,445	\$ 16,995	\$ 11,260	Various	Yes	\$ 27.02	\$ 304	4 pumps replaced through 11/30. Do not project any additional rebuilds through EOY
Booster Pump replacement/rebuild	WTP Rebuild pump end, Intermediate Pump #3	1914986	DW17-183	26,101	2/2/2018	\$ -	\$ 24,555	Yes	\$ 24,555	\$ 24,555	\$ 24,555	\$ 24,554	Nashua	Yes	\$ 26.23	\$ 644	Pump Bearings failed on Intermediate Booster Pump at WTP
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 15,000	\$ 15,000	Yes	\$ 15,000	\$ 15,000	\$ 11,000	\$ 16,995	Various	Yes	\$ 27.02	\$ 459	4 replaced through 11/30. Projecting 1 more by year end.
Chemical Feed pump replacements	Chemical Feed pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ 10,000	\$ 10,000	\$ 2,000	\$ -	Various	Yes	\$ 27.02	\$ -	No replacements to date in 2019, assume 1 replacement before EOY
Upgrade SCADA historian software, new hardware	upgrade SCADA historian software, new hardware	n/a	DW17-183	26,101	2/2/2018	\$ 150,000	\$ 150,000	Yes	\$ 150,000	\$ 150,000	\$ 67,500	\$ -	Various	Yes	\$ 27.02	\$ -	Scope of project was more clearly defined resulting in a reduction in cost.
Twin Ridge rebuild softener system, install radon treatment	Twin Ridge rebuild softener system, install radon treatment	1907731	DW17-183	26,101	2/2/2018	\$ 50,000	\$ 50,000	Yes	\$ 50,000	\$ 4,000	\$ 4,000	\$ 11,112	Plaistow	Yes	\$ 25.93	\$ 288	Project scope was limited to MTM media replacement
Misc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 10,700	Yes	\$ 10,700	\$ 10,700	\$ -	\$ -	Various	Yes	\$ 27.02	\$ -	Reduced by replacement of failed Fire Alarm CPU
Misc. Structural Improvements	Replace Fire Alarm System CPU	1907102, 1910221	DW17-183	26,101	2/2/2018	\$ -	\$ 9,300	Yes	\$ 9,300	\$ 9,300	\$ 9,300	\$ 9,251	Nashua	Yes	\$ 26.23	\$ 243	Fire Alarm CPU failed due to electrical surge.
Misc. Structural Improvements	Replace Natural Gas Heater, High Pine Station	1917491	DW17-183	26,101	2/2/2018			Yes			\$ 4,050	\$ 4,050	Nashua	Yes	\$ 26.23	\$ 106	Failed heater. Part of run rate Misc Structural Improvements
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	\$ 17,500	\$ 9,928	Yes	\$ 9,928	\$ -	\$ -	\$ -	Various	Yes	\$ 27.02	\$ -	Reduced by Miscellaneous Equipment purchased to date. No additional purchases projected by EOY
Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program	1907611	DW17-183	26,101	2/2/2018	\$ -	\$ 4,568	Yes	\$ 4,568	\$ 4,568	\$ 4,568	\$ 4,568	Nashua	Yes	\$ 26.23	\$ 120	Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Purchase Entry Tripod and Winch for WS Confined Space Program	1910296	DW17-183	26,101	2/2/2018	\$ -	\$ 3,004	Yes	\$ 3,004	\$ 3,004	\$ 3,004	\$ 3,004	Nashua	Yes	\$ 26.23	\$ 79	Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Replace Chlorine Analyzer, Twin Ridge	1915362	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ 4,449	\$ 4,449	\$ 4,449	Nashua	Yes	\$ 26.23	\$ 117	Routine Miscellaneous Equipment purchase
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	\$ 30,000	Yes	\$ 30,000	\$ 27,800	\$ 27,800	\$ -	Various	Yes	\$ 27.02	\$ -	

Miscellaneous SCADA/Electrical	Replace VFD, Pump #1 Bowers Landing	1916547	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ 2,200	\$ 2,200	\$ 2,118	Various	Yes	\$ 27.02	\$ 57	
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ 10,000	\$ 10,000	\$ -	\$ -	Nashua	Yes	\$ 26.23	\$ -	No additional WTP Structural/HVAC projected by EOY
WTP Structural/HVAC	Replace Heat Exchanger, WTP Office	1917470	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ -	\$ 8,328	\$ 8,328	Nashua	Yes	\$ 26.23	\$ 218	WTP Structural/HVAC project
Purchase new lab equipment	Purchase new lab equipment	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 18,500	Yes	\$ 18,500	\$ 18,500	\$ 18,500	\$ -	Nashua	Yes	\$ 26.23	\$ -	Reduced by purchase of HACH DR 900 below
Purchase new lab equipment	HACH DR 900	1908450	DW17-183	26,101	2/2/2018	\$ -	\$ 1,500	Yes	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,435	Nashua	Yes	\$ 26.23	\$ 38	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ 10,000	\$ 3,256	\$ 3,256	\$ -	Various	Yes	\$ 27.02	\$ -	
Miscellaneous Fencing and Security projects	WTP Perimeter Fence Carryover	1901608	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ 6,744	\$ 6,744	\$ 6,744	Various	Yes	\$ 27.02	\$ 182	
Purchase new vehicle for Water Supply Electrician	Purchase of a new vehicle for the Water Supply Electrician	1918314	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ -	\$ 32,400	\$ 28,897	Nashua	No	\$ 26.23	\$ -	unbudgeted. Made necessary due to the premature retirement of 2 dept. vehicles.
Replace Ferric Chloride Feed pump	Replace Ferric Chloride Feed pump	1901613	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ -	\$ 1,713	\$ 1,713	Nashua	Yes	\$ 26.23	\$ 45	pump rebuild was determined to be best course.
Carbon media changeout-filters 1 & 2	Carbon media changeout-filters 1 & 2	1901614 & 1916780	DW17-183	26,101	2/2/2018	\$ 1,000,000	\$ 1,050,000	Yes	\$ 1,525,000	\$ 975,000	\$ 975,000	\$ 990,662	Nashua	Yes	\$ 26.23	\$ 25,985	New PFAS regulations require that all filter media be changed out to ensure compliance with the new PFOA standard which is slated to go into effect on October 1, 2019. Filter media replacement being staged over 6 month intervals. 8 of 12 filters to be replaced in 2019, remaining four filters to be replaced in Spring 2020.
Add 3rd pump at Main Dunstable Booster, replace 1 existing	Add 3rd pump at Main Dunstable Booster, replace 1 existing	n/a	DW17-183	26,101	2/2/2018	\$ 120,000	\$ -	Yes	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 26.23	\$ -	Pump delivery time is about 30 weeks which delays this project until 2020
Add 3rd pump at Main Dunstable Booster, replace 1 existing	Rebuild Pump #1, Main Dunstable, Nashua	1901615	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ 15,995	\$ 15,995	\$ 15,995	Nashua	Yes	\$ 26.23	\$ 420	
Replace Kessler Farm booster pump package	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning to pit	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,000	Yes	\$ 75,000	\$ 75,000	\$ -	\$ -	Nashua	Yes	\$ 26.23	\$ -	Project deferred until 2020
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment	n/a	0.1 DSRR			\$ 25,000	\$ 25,000	No	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP	1908373	0.1 DSRR			\$ 20,000	\$ 20,000	No	\$ 20,000	\$ 20,000	\$ 20,000	\$ 1,310	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Public Education - Watershed signage	Public Education -Watershed signage	n/a	0.1 DSRR			\$ 20,000	\$ 20,000	No	\$ 20,000	\$ 20,000	\$ 20,000		Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module	1901618	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ 10,000	\$ 8,000	\$ 8,001	\$ 7,978	Nashua	Yes	\$ 26.23	\$ 209	
Camera System Upgrade	Carryover Costs from 2018 Project	1819073, 1900413	0.1 DSRR			\$ -	\$ 7,500	No	\$ 7,500	\$ 7,500	\$ 7,500	\$ 9,756	Nashua	Yes	\$ 26.23	\$ 256	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Dredging Feasibility Study	Carryover Costs from 2018 study	1807145, 1901939	0.1 DSRR			\$ -	\$ 24,600	No	\$ 24,600	\$ 24,600	\$ 24,600	\$ 39,520	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Source Water Protection Study	Carryover Costs from 2018 study	1901740	0.1 DSRR			\$ -	\$ 12,000	No	\$ 12,000	\$ 12,000	\$ 12,000	\$ 11,000	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Aquatic Vegetation Assessment	Carryover Costs from 2018 study	1807147, 1906080	0.1 DSRR			\$ -	\$ 4,200	No	\$ 4,200	\$ 4,200	\$ 4,200	\$ 9,545	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing Comcast Ethernet line to one of the buildings	1901619	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 40,000	Yes	\$ 40,000	\$ 36,000	\$ 24,985	\$ 22,896	Nashua	Yes	\$ 26.23	\$ 601	
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	\$ 35,000	Yes	\$ 35,000	\$ 35,000	\$ -	\$ -	Merrimack	No	\$ 28.86	\$ -	No upgrades enhancements will be completed in 2019
Wireless Access Points for Main Office	Wireless Access Points for Main Office	n/a	DW17-183	26,101	2/2/2018	\$ 14,000	\$ -	Yes	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.86	\$ -	Monies moved to Veecam Backup Project

KVM for Data Center	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console without having to move the Monitor/Keyboards/ Mouse connections each time.	n/a	DW17-183	26,101	2/2/2018	\$ 2,500	\$ -	Yes	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.86	\$ -	
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.	n/a	DW17-183	26,101	2/2/2018	\$ 1,200	\$ -	Yes	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.86	\$ -	
Digital Signage for Distribution	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed	1908376	0.1 DSRR	26,101	2/2/2018	\$ 2,000	\$ 1,270	Yes	\$ 1,270	\$ 1,270	\$ 1,270	\$ 1,270	Merrimack	No	\$ 28.86	\$ -	
VDI Pilot	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	\$ -	Yes	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.86	\$ -	
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 20,000	Yes	\$ 20,000	\$ 16,153	\$ 16,153		Merrimack	No	\$ 28.86	\$ -	
Misc Hardware	Mount in Vehicles	1908308	0.1 DSRR			\$ -		No		\$ 1,397	\$ 1,397	\$ 1,248	Merrimack	No	\$ 28.86	\$ -	
Misc Hardware	2 iPad Pros for IS Testing	1908309	0.1 DSRR			\$ -		No		\$ 2,450	\$ 2,450	\$ 2,298	Merrimack	No	\$ 28.86	\$ -	
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	\$ 12,000	Yes	\$ 12,000	\$ 12,000	\$ 12,000	\$ -	Merrimack	No	\$ 28.86	\$ -	
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	\$ 8,000	Yes	\$ 8,000	\$ 8,000	\$ 8,000	\$ -	Merrimack	No	\$ 28.86	\$ -	
Implement Customer Balances over the phone	Implement Customer Balances over the phone	n/a	DW17-183	26,101	2/2/2018	\$ 4,000	\$ 25,500	Yes	\$ 25,550	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.86	\$ -	Deferred
Click Resource Assistant	Allow for the moving of customer Appointment from an generic resource to a named resource.	1907952	0.1 DSRR			\$ -	\$ 22,828	No	\$ 22,828	\$ 22,828	\$ 22,828	\$ 22,828	Merrimack	No	\$ 28.86	\$ -	
Database Server License for GIS and other Apps	Purchase Server license for Virtual Environment	1915920	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ 7,200	\$ 7,200	\$ 7,305	Merrimack	No	\$ 28.86	\$ -	Previously licensed software was not suitable for Virtual environment
Veeam Backup Software	Replacement of existing backup software due to exorbitant vendor fees to keep original system running.	1909216	0.1 DSRR			\$ -	\$ 25,550	No	\$ 25,550	\$ 25,500	\$ 25,500	\$ 15,530	Merrimack	No	\$ 28.86	\$ -	
New RCO Manager Computer	New RCO Manager Computer	1917001	0.1 DSRR			\$ -		No	\$ -	\$ -	\$ 2,800	\$ 1,797	Merrimack	No	\$ 28.86	\$ -	Replace failed desktop computer
Kessler Farm Tank Design	Kessler Farm Tank Design	1915117	0.1 DSRR	26,101	2/2/2018	\$ -		No	\$ -	\$ -	\$ 50,000	\$ 36,355	Nashua	No	\$ 26.23	\$ -	Engineering for tank to be constructed in 2020.
Retainage	Payment of Retainage for projects that were used and useful in 2018.		DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ 148,006	\$ 174,418	\$ 33,586	Merrimack	No	\$ 28.86	\$ -	Retainage paid in 2019 for 2018 QCPAC projects.
Short term interest on the PWW Fixed Asset Line of Credit	Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020		DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ -	\$ -	\$ -	\$ 230,645	Various	No		\$ -	
Performance Management Platform Implementation & Technical Integration	Performance Management Platform Implementation & Technical Integration	1916551	DW17-183	26,101	2/3/2018	\$ -	\$ -	Yes	\$ -	\$ 13,804	\$ 13,804	\$ 13,804	Merrimack	No	\$ 28.86	\$ -	
Papercut MF Software for copiers	Papercut MF Software for copiers	1918363	DW17-183	26,101	2/3/2018	\$ -	\$ -	Yes	\$ -	\$ -	\$ -	\$ 3,708	Merrimack	No	\$ 28.86	\$ -	
Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -						\$ 14,968,170	\$ 16,902,524		\$ 17,557,124	\$ 16,890,831	\$ 16,543,576	\$ 15,803,137	Projected Property Tax Expense		\$ 412,020		

Total Projected PWW QCPAC Capex for 2019 -	\$ 16,832,524	\$ 14,898,170	\$ 17,169,748	\$ 16,704,314	\$ 16,110,199	\$ 15,395,402
Amount funded by SRF/DWGTF -	\$ 8,819,800	\$ 8,819,800	\$ 8,819,800	\$ 8,819,800	\$ 8,812,000	\$ 8,240,554
Amount to be funded by 2020 Bond Issue -	\$ 8,012,724	\$ 6,078,370	\$ 8,349,948	\$ 7,884,514	\$ 7,298,199	\$ 7,154,849

1. Tax rate is the sum of the local community rate plus the 11/30/2019 12/31/2019

2. Projects funded by 0.1 DSRR funds are not QCPAC eligible because the cash to fund these projects is not bonded. Total 2019 Capex to be funded by 0.1 DSRR funds - \$ 433,377 \$ 407,735