THE STATE OF NEW HAMPSHIRE

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HPUC 29DEC'17AH11:45

December 29, 2017

Ms. Debra A. Howland, Executive Director New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, NH 03301-2429

RE: DW 17-103 West Swanzey Water Company, Inc. Rate Filing

Dear Ms. Howland:

On July 21, 2017, West Swanzey Water Company, Inc. ("West Swanzey") submitted a permanent rate filing including revised tariff pages. The New Hampshire Public Utilities Commission ("the Commission") issued Order No. 26,046 on August 4, 2017 in this docket and suspended West Swanzey's proposed tariff and scheduled a prehearing conference to occur on September 27, 2017 immediately followed by a technical session. The prehearing conference and technical session were held as scheduled. On September 27, 2017 the Staff ("Staff") of the Commission proposed a procedural schedule. On October 3, 2017, the Commission approved the proposed procedural schedule which provided for two rounds of discovery, a technical session and settlement conference. On November 29, 2017, Staff filed a Settlement Agreement amongst Staff and West Swanzey with the intent to resolve issues discussed in the determination of permanent rates. On December 6, 2017, at the Hearing on the Merits, Record Request #3 was assigned to this recommendation letter to update the record for actual costs associated with estimated Step Adjustment invoices.

The Settlement Agreement filed on November 29, 2017 stated that Staff and West Swanzey agreed to a total revenue requirement in the amount of \$96,379. In deriving this revenue requirement, the Settling Parties agreed to a permanent rate increase of \$17,954 or 24.38%, as shown on Attachment A, Schedule 1, and based on proforma test year of 2016. The Settling Parties also agreed to a step increase of \$4,797 or 5.24%, shown on Attachment B, Schedule 1 and based on estimated 2017 plant additions of \$24,500 which will be fully in service and useful at the time rates are implemented.

Staff's review of the final invoice costs for the step adjustment reduce plant additions by \$1,600 from \$24,500 to \$22,900. Accumulated depreciation then changes by \$80 from (\$1,225) to (\$1,145). Net plant in service (net 2017 plant in rate base) reduces from \$23,275 to \$21,755.

The rate of return reduces from 6.02% to 5.87% as a reflection of lower debt costs. The annual depreciation expense reduces from \$2,450 to \$2,290. The property tax expense reduces from \$946 to \$884. The step increase revenue requirement reduces by \$345, from \$4,797 to \$4,452. The percent of increase in revenue requirement from water sales reduces from 5.24% to 4.86%.

Staff recommends the following replacements to the Settlement Agreement:

A. Revenue Requirement: Permanent Rates and Step Adjustment

The Settling Parties agree to a total revenue requirement in the amount of \$91,582. In deriving this revenue requirement, the Settling Parties agree to a permanent rate increase of \$17,954 or 24.38%, Attachment A, Schedule 1, based on proforma test year 2016, as well as a step increase of \$4,452 or 4.86%, Attachment B-Revised, Schedule 1, based on 2017 plant additions which will be fully in service and used and useful at the time rates are implemented.

B. Effective Date for Permanent Rates and Step Adjustment

The Settling Parties agree that the total rate increase of \$22,406, or 29.24%, comprised of the permanent rate increase of \$17,954, or 24.38%, Attachment A, Schedule 1 and the step increase of \$4,452 or 4.86%, Attachment B-Revised, Schedule 1, shall be effective as of the date of the Commission order approving this Agreement.

West Swanzey has reviewed Staff's recommendation and has informed Staff that they concur with Staff's recommendation. If you have any questions regarding the above, please do not hesitate to contact me.

Sincerely,

Robyn J. Descoteau

Utility Analyst, Gas & Water Division

Robyr of Descoteau

Attachment: Original calculation of Permanent Revenue Requirement, Attachment A
Revised calculation of Step Increase Revenue Requirement, Attachment B-Revised

cc: Service List

DW 17-103 WEST SWANZEY WATER COMPANY, INC. REVENUE REQUIREMENT

Average Rate Base (Schedule 2)		\$ 186,171
Rate of Return (Schedule 1a)	x _	 5.06%
Operating Income Requirement		9,420
Adjusted Net Operating Income (Schedule 3, Column 6)	_	26,523
Revenue Deficiency / (Surplus) Before Income Taxes (Schedule 3, Column 7)		(17,103)
Divided by Tax Factor (Schedule 1b)	÷_	 78.03%
Revenue Deficiency / (Surplus) after Tax Effect (Schedule 3, Column 7)		(21,918)
Add: Pro-forma Test Year Water Revenue per Company (Schedule 3, Column	6)_	113,500
Revenue Requirement from Water Sales per Staff		91,582
Less: Adjusted Test Year Water Sales (See Note below*)	_	 (73,628)
Increase / (Decrease) in Revenue Requirement from Water Sales	=	\$ 17,954
Percent Increase / (Decrease) in Revenue Requirement from Water Sales	_	24.38%

^{*} Adjusted Test Year Water Sales: Test Year Water Sales plus Staff Adjustment #7

DW 17-103 WEST SWANZEY WATER COMPANY, INC. WEIGHTED AVERAGE COST OF CAPITAL

		Capital St	ructure						Weighted										
	Per	Test Year	Percent	Interest Rate @ 12/31/16									Annual nterest	Annual Amortization		Total Annual Cost of Debt		Cost Rate	Average Cost
Long-term Debt:																			
Ocean Bank: 04/28/99	\$	7,051	4.50%	4.00%		\$	367	\$	20	\$	387	5.49%	0.25%						
Ocean Bank: 09/23/03		92,831	59.29%	4.25%			4,826		256		5,082	5.47%	3.24%						
NHDES SRF: 10/1/13		35,982	22.98%	2.72%			243		218		461	1.28%	0.29%						
Total Long-term Debt		135,864	86.77%		-	\$	5,436	\$	494	\$	5,930	4.36%	3.79%						
Common Equity:																			
Common Stock		30,471	19.46%																
Retained Earnings		(9,760)	-6.23%																
Total Common Equity		20,711	13.23%								_	9.60%	1.27%						
Total Capitalization	\$	156,575	100.00%										5.06%						

(a) Per review of Loan Statements from response to Staff 1-3

Cost of Equity Rate of 9.60% as approved in Lakes Region Rate Case: DW15-209, Order #25,969, dated 11/28/16.

DW 17-103 WEST SWANZEY WATER COMPANY, INC. EFFECTIVE TAX FACTOR

Taxable Income	100.00%
Less: NH Business Profits Tax	8.20%
Federal Taxable Income	91.80%
Federal Income Tax Rate	15.00%
Effective Federal Income Tax Rate	13.77%
Add: NH Business Profits Tax	8.20%
Effective Tax Rate	21.97%
Percent of Income Available if No Tax	100.00%
Effective Tax Rate	21.97%
Percent Used as a Divisor in Determining	70 020/
the Revenue Requirement	78.03%

DW 17-103 WEST SWANZEY WATER COMPANY, INC. AVERAGE RATE BASE

	5-Quarter Average Per Company		Company Pro-Forma Adjustments	P	Company Pro-Forma Test Year	Αdjι	Staff ustments Sch 2a)	Adj#	Test Year Average Per Staff		
Plant in Service											
Plant in Service (Schedule 2b)	\$	476,121		\$	476,121	\$	108	1	\$	476,229	
Less: Accumulated Depreciation (Schedule 2b)		(220,097)	(206)		(220,303)		(108)	2		(220,411)	
Net Plant in Service		256,024	(206)		255,818					255,818	
Contributions in Aid of Construction (CIAC) (Schedule 2b)		(151,157)	-		(151,157)		-			(151,157)	
Accumulated Amortization of CIAC (Schedule 2b)		60,038			60,038					60,038	
Net Contributions in Aid of Construction		(91,119)			(91,119)					(91,119)	
Net Plant in Rate Base		164,905	(206)		164,699					164,699	
Materials & Supplies (Schedule 2b)		696	-		696		-			696	
Prepaid Expenses (Schedule 2b)		4,635	-		4,635		(1,024)	3		3,611	
Cash Working Capital (Schedule 2b)		13,328	1,208		14,536		(895)	4-5		13,641	
Deferred Assets							3,524	6-7		3,524	
Total Average Rate Base	\$	183,564	\$ 1,002	\$	184,566	\$	1,605		\$	186,171	

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STAFF PRO-FORMA ADJUSTMENTS TO RATE BASE

Adj#

Plant in Service

1	To adjust Plant for Audit Issue #3, misposted depreciation entry.		\$ 108
2	Accumulated Depreciation To adjust Accumulated Depreciation for Audit Issue #3, misposted depreciation entry.		\$ (108)
	Prepaid Expenses		
3	To adjust Prepaid expenses: include only those prepaids not included in Cash Working Capital: 5-Quarter Average per Staff Less: Year-end average per Company	\$ 3,611 (4,635)	\$ (1,024)
	Cash Working Capital		
4	To reverse Company Pro-forma for working capital.		\$ (1,208)
5	To adjust cash working capital. See Schedule 2b. Amount per Staff Less: Amount per Company	\$ 13,641 (13,328)	\$ 313
	Total Adjustments - Working Capital		\$ (895)
	<u>Deferred Assets</u>		
6	To set up Deferred Asset for costs associated with NHDES mandate to replace System Operator, improve reporting requirements, comply with Sampling Schedule and Sanitary Survey. Account #626-Testing/Misc Pumping Operating Expenses Account #642-Treatment Labor	\$ 2,484 2,802	\$ 5,286
7	To record first year's expense for Deferred Asset (NHDES) Three year amortization: 5,286 / 3 years		\$ (1,762)
	Total Adjustments - Deferred Assets		\$ 3,524

DW 17-103 WEST SWANZEY WATER COMPANY, INC. CALCULATION OF AVERAGE RATE BASE

	1	12/31/15	03/31/16 06/30/		06/30/16	30/16 09/30/16		12/31/16		_	5-Quarter Average Per Staff	5-Quarter Average Per Company	Staff Adjustments	Adjustment #	
Plant in Service	\$	473,699	\$	473,802	\$	477,702	\$	477,702	\$	477,702	9	\$ 476,121	476,121	\$ -	
Accumulated Depreciation		(212,504)		(216,102)		(220,031)		(223,960)		(227,887)		(220,097)	(220,097)	-	
Contributions in Aid of Construction (CIAC)		(151,157)		(151,157)		(151,157)		(151,157)		(151,157)		(151,157)	(151,157)	-	
Accumulated Amortization - CIAC		57,013		58,526		60,038		61,551		63,063		60,038	60,038	-	
Materials & Supplies		696		696		696		696		696		696	696	-	
Prepaid Expenses (a)		2,129		-		7,962		5,308		2,654		3,611	4,635	(1,024)	3
Cash Working Capital											(b)	13,641	13,328	313	5
Total Average Rate Base											<u> </u>	\$ 182,853	\$ 183,564	\$ (711)	

(a)	Staff's	Calculation	of	Prepaid	Expenses:
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	2015 2015 Local Tax State Tax			2016 cal Tax	2016 ate Tax	Total Prepaids			
12/31/15	\$ 1,732	\$	397	\$ -	\$ _	\$	2,129		
01/31/16	1,155		265	-	_		1,420		
02/28/16	577		132	-	-		709		
03/31/16	-		-	-	-		-		
04/30/16	-		-	8,218	1,513		9,731		
05/31/16	-		-	7,471	1,375		8,846		
06/30/16	-		-	6,724	1,238		7,962		
07/31/16	-		-	5,977	1,100	<u> </u>	7,077		
08/31/16	-		-	5,230	963		6,193		
09/30/16	-		-	4,483	825		5,308		
10/31/16	-		-	3,735	688		4,423		
11/30/16	-		-	2,988	550		3,538		
12/31/16	-		-	2,241	413		2,654		

(b) Staff's Calculation of Cash Working Capital:

	-	
Cash Working Capital		\$ 13,641
Cash Working Capital % (75 days /	365 days) x _	20.55%
Adjusted Total O & M Expenses (So	h 3)	\$ 66,379

DW 17-103 WEST SWANZEY WATER COMPANY, INC. OPERATING INCOME STATEMENT

	(1) Per Test Year		Adju	(2) Pro-forma Adjustments Per Company		(3) Adjusted Test Year Per Company		(4) Staff djustments (Sch 3a)	(5) Adj #	(6) Adjusted Test Year Per Staff		(7) Revenue Deficiency / (Surplus)		(8) Revenue Requirement	
Operating Revenues			_				_		_	_	====		,	_	
Water Sales	\$	69,906	\$	39,872	\$	109,778	\$	3,722	8	\$	113,500	\$	(21,918)	\$	91,582
Other Operating Revenues															
Total Operating Revenues		69,906		39,872		109,778		3,722			113,500		(21,918)		91,582
Operating Expenses															
Operation & Maintenance Expenses:															
Source of Supply Expenses		3,260		-		3,260		_			3,260				3,260
Pumping Expenses		17,243		_		17,243		(5,112)	9-12		12,131				12,131
Water Treatment Expenses		10,128		_		10,128		4,301	13-15		14,429				14,429
Transmission & Distribution Expenses		3,476		_		3,476		-			3,476				3,476
Customer Accounts Expenses		5,228		800		6,028		_			6,028				6,028
Administrative & General Expenses		25,523		5,877		31,400		(4,345)	16-20		27,055				27,055
Total Operation & Maintenance Expenses		64,858		6,677		71,535		(5,156)			66,379				66,379
Depreciation Expense		15,507		206		15,713		_			15,713				15,713
Amortization Expense - CIAC		(6,050)		200		(6,050)		_			(6,050)				(6,050)
Amortization Expense - Other		207		_		207		_			207				207
Taxes other than Income		9,694		-		9,694		- 921	21		10,615				10,615
Total Operating Expenses		84,216	-	6,883		91,099		(4,235)	21		86,864				86,864
Total Operating Expenses		04,210	1	0,003		91,099		(4,233)			80,804				00,004
Net Operating Income / (Loss)															
Before Income Taxes		(14,310)		32,989		18,679		7,957			26,636		(21,918)		4,718
Income Taxes				1,251		1,251		(1,138)	Sch 3b		113		(4,815)		(4,702)
Net Operating Income (Loss)	\$	(14,310)	\$	31,738	\$	17,428	\$	9,095		\$	26,523	\$	(17,103)	\$	9,420

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STAFF PRO-FORMA ADJUSTMENTS TO OPERATING REVENUES AND EXPENSES

<u>Adj #</u>

Pro-forma Adjustments to	Operating Revenues:

8	To increase test year water revenues due to a commercial meter that had been tampered with and as a result did not read properly for two billing periods.	-	\$ 3,722
	Total Adjustments - Operating Revenues	-	\$ 3,722
	Pro-forma Adjustments to Operating Expenses:		
	Pumping Expenses		
9	To adjust test year purchased power expense to actual test year expenses (Audit Issue #4). Actual test year billings for electricity costs Less: Purchased power expense per Company filing	\$ 6,545 (6,996)	\$ (451)
10	To remove 2015 testing costs from Account 626-Testing/Misc Pumping Operating Expenses.		\$ (40)
11	To adjust Account 626-Testing/Misc Pumping Operating expenses to reflect first two quarters of 2017 and last two quarters of 2016 which more accurately measures expense going forward. Total expense calculation of Q1, Q2 2017 and Q3, Q4 2016 \$ 5,334 General Ledger balance at 12/31/16 (7,471)		\$ (2,137)
12	To set up Deferred Asset for costs associated with NHDES mandate to bring system's Lead & Copper and Alklinity balances into compliance. (Aggressive sampling schedule) Account #626-Testing/Misc Pumping Operating Expenses	-	\$ (2,484)
	Total Adjustments - Pumping Expenses	-	\$ (5,112)
	Water Treatment Expenses		
13	To adjust Account 642-Treatment Labor expenses to reflect first two quarters of 2017 and last two quarters of 2016 which more accurately measures expense going forward. Total expense calculation of Q1, Q2 2017 and Q3, Q4 2016 \$ 13,515 General Ledger balance at 12/31/16 (8,174)		\$ 5,341
14	To set up Deferred Asset for costs associated with NHDES mandate to replace System Operator, improve reporting requirements, comply with Sampling Schedule and Sanitary Survey. Account #642-Treatment Labor		\$ (2,802)
15	To record first year's expense for Deferred Asset (NHDES) Account #626; See Adjustment above: Account #642; See Adjustment above: Three year amortization: \$ 2,484 2,802 5,286 / 3 years		\$ 1,762
		-	
	Total Adjustments - Water Treatment Expenses	-	\$ 4,301

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STAFF PRO-FORMA ADJUSTMENTS TO OPERATING REVENUES AND EXPENSES

Adj#

Administrative & General Expenses

16	To adjust insurance expense to 2016 premium amount. 2016 commercial package premium Less: Insurance expense recorded by Co during the test year	\$ 1,810 (1,784)	\$ 26
17	To adjust Company pro-forma related to PUC Audit. Original Company pro-forma: Adjusted Company pro-forma: \$ 2,400 / 3 years 800 (1,219) / 3 years (406)		\$ (394)
18	To reverse Company pro-forma related to EE Houghton Co, Inc. Jan - March 2017 costs.		\$ (4,177)
19	To reverse Company pro-forma related to Supervision.		\$ (1,500)
21	To correct Company pro-forma related to Supervision: Total annual management / rental fees indicated per revised agreements Less: Management / rental fees charged to Company during the test year Total Adjustments - Administrative & General Expenses Pro-forma Adjustments to Taxes: Taxes Other than Income To adjust test year property tax expense: 2016 Municipal Property Tax (See Staff DR# 1-10) 2016 State Utility Property Tax (See Staff DR# 1-10) Total pro-forma property taxes per Staff Less: Pro-forma property taxes per Company (Schedule 3)	\$ 13,100 (11,400) - - - - - - - - - - - - - - - - - -	\$ 1,700 (4,345)
	Income Taxes		
22	To reverse Company's Income Tax adjustment. (See Staff Schedule 3b)		\$ (1,251)
23	To record income tax effect of pro-forma adjustments to revenue and expenses. (See Staff Schedule 3b)	-	\$ 113

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STAFF PRO-FORMA ADJUSTMENTS TO INCOME TAXES

INCOME TAXES

To reflect the income tax effect of proforma adjustments to revenue and expenses:

Operating Revenues:

Total Proforma Adjustments to Water Revenues	\$ (3,722)
Operating Expenses:	
Total Proforma Adjustments to Source of Supply Expenses Total Proforma Adjustments to Pumping Expenses Total Proforma Adjustments to Water Treatment Expenses Total Proforma Adjustments to Transmission & Distribution Expense Total Proforma Adjustments to Customer Accounts Expenses Total Proforma Adjustments to Administrative & General Expenses Total Proforma Adjustments to Depreciation Expense Total Proforma Adjustments to Amortization Expense - CIAC Total Proforma Adjustments to Amortization Expense - Other Total Proforma Adjustments to Taxes other than Income Marginal Revenue (Expense) Subject to Income Taxes	-
Less: New Hampshire Business Profits Tax @ 8.2% Amount Subject to Federal Income Tax	(42) 471
Less: Federal Income Tax @ 15.0% Proforma Adjustments net of Income Taxes	(71) \$ 400

DW 17-103 WEST SWANZEY WATER COMPANY, INC. CALCULATION OF CUSTOMER RATES

		Present		Proposed Proposed				Total	al			
			Rates	% Increase	<u>Ir</u>	ncrease		Rates	Quantity	R	evenue	
Fixed (Charge:											
5/8"	Meter	\$	18.87	24.38%	\$	4.60	\$	23.47	66	a \$	1,549	
3/4"	Meter *	\$	20.76	24.37%	\$	5.06	\$	25.82	-		_	
1"	Meter *	\$	26.42	24.38%	\$	6.44	\$	32.86	10	а	329	
1 1/2"	Meter *	\$	33.97	24.37%	\$	8.28	\$	42.25	-		_	
2"	Meter *	\$	54.72	24.38%	\$	13.34	\$	68.06	5	а	340	
3"	Meter *	\$	207.57	24.38%	\$	50.60	\$	258.17	-		_	
4"	Meter *	\$	264.18	24.38%	\$	64.40	\$	328.58	_		_	
6"	Meter *	\$	396.27	24.38%	\$	96.60	\$	492.87	_		_	
8"	Meter *	\$	547.24	24.38%	\$	133.39	\$	680.63	_		_	
		·					·		81	a \$	2,218	
										X		Quarters
Total A	annual Fixed Charge Revenue									^ _ \$	8,872	Q.0.0.10.0
Consu	mption Charge (per 100 Gallons):	\$	0.629	36.29%	\$	0.23	\$	0.857	78,516	b \$	67,308	
Private	Fire Protection:											
1"	Service	\$	29.76	24.38%	\$	7.26	\$	37.02	-	\$	_	
2"	Service	\$	59.54	24.38%	\$	14.52	\$	74.06	-		_	
4"	Service	\$	178.60	24.38%	\$	43.55	\$	222.15	-		_	
6"	Service	\$	357.19	24.38%	\$	87.10	\$	444.29	2	а	889	
8"	Service	\$	595.32	24.38%	\$	145.17	\$	740.49	4	а	2,962	
										a \$	3,851	
										x		Quarters
Total A	Annual Private Fire Protection Revenue									^ _ \$	15,402	Q.0.0.10.0
											,	
Total P	Proposed Annual Revenues (Sch 1)									\$	91,582	

^{*} Meter rate based on AWWA M1 ratio which uses 5/8" meter rate as a base.

a = Number of Customers per NHPUC Annual Report S-8

b = 100 Gallons Sold per Billing Summaries

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STEP INCREASE REVENUE REQUIREMENT

Increase in Net Income Requirement:

2017 Plant Additions (Att B; Sch 2) Less: Accumulated Depreciation (Att B; Sch 2) Net 2017 Plant in Service	\$	22,900 (1,145) 21,755			
Net 2017 Plant in Rate Base	\$	21,755			
Rate of Return (Att B; Sch 1a)	x	5.87%			
Increase in Operating Income Requirement	\$	1,278			
Net Increase in Operating Expenses:					
Annual Depreciation Expense: 2017 Plant Additions less Retirements (Att B; Sch 2)	\$	2,290			
Property Tax Expense for 2017 Plant Additions (Att B; Sch 3)		884			
Step Increase in Revenue Requirement	\$	4,452			
Adjusted Test Year Water Sales (Att A; Sch 1)	\$	91,582			
Percent Increase / (Decrease) in Revenue Requirement from Water Sales					

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STEP ADJUSTMENT WEIGHTED AVERAGE COST OF CAPITAL

		Capital Structure									
		Staff	Adjusted	Interest			Ann	ual			
		Adjustments Per Staff		Rate	Α	nnual	Amorti	zation	Total A	Annual	Cost
	Per Filing	(a)	(a)	(b)	In	terest	(c)	Cost	of Debt	Rate
Long-term Debt:											
S Brown Loan: 2017	26,400	3,500	22,900	5.00%		1,145		200		1,345	5.87%
Total Long-term Debt	26,400	3,500	22,900		\$	1,145	\$	200	\$	1,345	5.87%

(a) Adjusted to actual cost of Plant Additions.

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STEP INCREASE COST ADDITIONS AND RETIREMENTS

2017 Plant Additions:

2017 Plant Additions.					_				
Account		mount *	Depreciation Rate	Annual reciation	Dep	umulated reciation 12/31/17	Net Plant in Service		
311: Pumping Equipment	\$	22,900	10.00%	\$ 2,290	\$	(1,145)	\$	21,755	
	\$	22,900		\$ 2,290	\$	(1,145)	\$	21,755	
 * Estimate: Final invoices pending as of 11/27/17 <u>Audited costs</u>: Everett E. Houghton, 8/29/17 (2) Danfoss VF Drives, Model FC102 	\$	8,858							
Everett E. Houghton, 12/1/17		9,121							

Estimate: Final invoices pending as of 11/27/17 Audited costs:	
Everett E. Houghton, 8/29/17 (2) Danfoss VF Drives, Model FC102	\$ 8,858
Everett E. Houghton, 12/1/17 Remove old well pump controllers, install VFDs, check system. Tap main exiting bldg, install ball valves on existing taps. Build & install EOS ProControl system. Finish ProControl installation, swap all pumps & equipment to ProContro, program system & test operations	9,121
Everett E. Houghton, 12/10/17 Complete SCADA install and associated programing. Install tank pressure transducer and system end pressure transducer. Install Eemax 480 Vot, 3 phase 32KW 2.5 gpm on demand water heater for soda ash mixing	4,921
	\$ 22,900

DW 17-103 WEST SWANZEY WATER COMPANY, INC. STEP INCREASE PROPERTY TAX CALCULATION

Municipal Taxes - Town of Swanzey

Assesed Valuation (See Staff DR#1-10) Net Plant in Service, 12/31/15 Assessment Adjustment Percentage	 250,000 261,195 95.71%	-			
Assessment Adjustment Percentage 2017 Net Plant Additions (Att B; Sch 2) Net Book Value after application of assessment adjustment percentage 2017 State Tax Rate (per \$1,000 of Valuation) (Staff DR# 1-10) Estimated State Taxes on 2017 Net Additions to Plant	\$ 95.71% 21,755		\$ 20,823 6.60	\$	137_
Net Increase in Property Tax Expense for 2017 changes to Plant				<u>,</u>	884

DW 17-103 WEST SWANZEY WATER COMPANY, INC. CALCULATION OF CUSTOMER RATES

			oposed New Rates	% Increase	;	oposed STEP crease	Proposed Rates		Quantity	Total evenue	
Fixed (5/8" 3/4" 1" 1 1/2" 2" 3" 4" 6" 8"	Meter Meter *	\$ \$ \$ \$ \$ \$ \$ \$ \$	23.47 25.82 32.86 42.25 68.06 258.17 328.58 492.87 680.63	4.86% 4.84% 4.85% 4.86% 4.86% 4.86% 4.86%	\$ \$ \$ \$ \$ \$ \$ \$ \$	1.14 1.25 1.59 2.05 3.31 12.54 15.96 23.94 33.06	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	24.61 27.07 34.45 44.30 71.37 270.71 344.54 516.81 713.69	12 a - 5 a - - - - 83 a	\$ 1,624 - 413 - 357 - - - 2,395 4	Quarters
Total A	Annual Fixed Charge Revenue								х	\$ 9,578	Quarters
Consu	mption Charge (per 100 Gallons):	\$	0.857	4.45%	\$	0.04	\$	0.895	78,516 b	\$ 70,305	
1" 2" 4" 6" 8"	Fire Protection: Service Service Service Service Service Service Service Annual Private Fire Protection Revenue	\$ \$ \$ \$	37.02 74.06 222.15 444.29 740.49	4.86% 4.86% 4.86% 4.86%	\$ \$ \$ \$ \$ \$	1.80 3.60 10.80 21.60 36.00	\$ \$ \$ \$	38.82 77.66 232.95 465.89 776.49	- - 2 a 4 a 	\$ 932 3,106 4,038 4 16,151	Quarters
Total Proposed Annual Revenues (Attachment A; Sch 1 + Attachment B; Sch 1)										\$ 96,034	

^{*} Meter rate based on AWWA M1 ratio which use 5/8" meter rate as a base.

a = Number of Customers per NHPUC Annual Report S-8

b = 100 Gallons Sold per Billing Summaries

SERVICE LIST - EMAIL ADDRESSES - DOCKET RELATED

Pursuant to N.H. Admin Rule Puc 203.11 (a) (1): Serve an electronic copy on each person identified on the service list.

Executive.Director@puc.nh.gov alexander.speidel@puc.nh.gov amanda.noonan@puc.nh.gov dbrown1@ne.rr.com jayson.laflamme@puc.nh.gov mark.naylor@puc.nh.gov ocalitigation@oca.nh.gov stephenpstcyr@yahoo.com steve.frink@puc.nh.gov

Docket #: 17-103-1 Printed: December 29, 2017

FILING INSTRUCTIONS:

a) Pursuant to N.H. Admin Rule Puc 203.02 (a), with the exception of Discovery, file 7 copies, as well as an

electronic copy, of all documents including cover letter with:

DEBRA A HOWLAND EXECUTIVE DIRECTOR NHPUC 21 S. FRUIT ST, SUITE 10 CONCORD NH 03301-2429

- b) Serve an electronic copy with each person identified on the Commission's service list and with the Office of Consumer Advocate.
- c) Serve a written copy on each person on the service list not able to receive electronic mail.