

**STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION**

Re: Pennichuck Water Works, Inc.

American Recovery and Reinvestment Plan of 2009 SRF Financing

DW 09-

DIRECT PREFILED TESTIMONY OF DONALD L. WARE

March 31, 2009

1 **Professional and Educational Background**

2 **Q. What is your name and what is your position with Pennichuck Water**
3 **Works, Inc.?**

4 A. My name is Donald L. Ware. I am the President of Pennichuck Water
5 Works, Inc. (the "Company"). I have worked for the Company since 1995.
6 I am a licensed professional engineer in New Hampshire, Massachusetts
7 and Maine.

8 **Q. Please describe your educational background.**

9 A. I have a Bachelor in Science degree in Civil Engineering from Bucknell
10 University in Lewisburg, Pennsylvania and I completed all the required
11 courses, with the exception of my thesis, for a Masters degree in Civil
12 Engineering from the same institution. I have a Masters in Business
13 Administration from the Whittemore Business School at the University of
14 New Hampshire.

15 **Q. Please describe your professional background.**

16 A. Prior to joining Pennichuck Corporation, I served as the General Manager
17 of the Augusta Water District in Augusta, Maine from 1986 to 1995. I
18 served as the District's engineer between 1982 and 1986. Prior to my
19 engagement with the District, I served as a design engineer for the State
20 of Maine Department of Transportation for six months and before that as a
21 design engineer for Buchart-Horn Consulting Engineers from 1979 to
22 1982.

23 **Q. What are your responsibilities as President of the Company?**

1 A. As President, I am responsible for the overall operations of the Company,
2 including water quality and supply, distribution, engineering and water
3 system capital improvements. With regard to capital improvements
4 overseen by the Company's Engineering Department, I work closely with
5 the Department and the Company's Chief Engineer regarding project
6 selection, project design, project management and construction
7 management.

8 **Q. What is the purpose of your testimony?**

9 A. I will be describing three capital improvements that the Company
10 proposes to complete using loan funds issued by the New Hampshire
11 Department of Environmental Services (NHDES) through the State
12 Revolving Loan Fund (SRF) using funds provided to the NHDES by the
13 American Recovery and Reinvestment Plan of 2009 (ARRP).

14 **Q. How many projects did the Company submit for funding with the**
15 **ARRP Funds?**

16 A. The Company submitted applications for 14 projects with an estimated
17 cost of \$3,376,000. Per Exhibit TCL-1 which is attached to Mr. Leonard's
18 prefiled testimony in support of the Company's financing petition, a total of
19 265 projects with an estimated construction cost of over \$246 million were
20 submitted to the NHDES for consideration by water departments, districts
21 and water utilities throughout the State. The PWW projects identified
22 below were ranked high enough to qualify for part of the \$38 + million in
23 available SRF ARRP financing.

1 Q. Which of the projects were approved by the NHDES for ARRP funds?

2 A. The NHDES approved the following projects submitted by PWW:

- 3 • The interconnection of the Ashley Commons community water
4 system with the Town of Milford water system - \$450,000
- 5 • The replacement of a failing 20,000 gallon steel atmospheric tank
6 at the Glenridge community water system - \$98,000
- 7 • The replacement of 2,456 lineal feet of unlined cast iron and steel
8 water main in the French Hill area of Nashua and the cleaning and
9 lining of 5,745 lineal feet of unlined 6" water main in the French Hill
10 area of Nashua - \$1,300,000.

11 Q. **Could you please describe the need for the Company to interconnect**
12 **the Ashley Commons community water system with the Town of**
13 **Milford?**

14 A. During the past several years, the quality of the raw water from the Ashley
15 Commons well has deteriorated significantly. Levels of sulfates, hardness,
16 total dissolved solids and fluoride have all increased. The Company
17 currently treats the water for hardness. The Company has received
18 increased complaints, and most recently an insurance claim, due to the
19 aggressive nature of the water and the premature failure of water piping
20 and fixtures within the homes at Ashley Commons. As a result of the
21 deteriorating raw water quality, the Company evaluated two options to
22 correct the current water quality problems:

- 1 1. Rebuild the Ashley Commons Booster Station, storage and
2 treatment systems or
- 3 2. Interconnect the Ashley Commons CWS to the Town of Milford
4 water system and abandon the Ashley Commons source of
5 supply.

6 The Company completed a detailed analysis of these two options, and
7 determined that the best option was to interconnect with the Town of
8 Milford water system. In 2008, the Company applied to the NHDES for a
9 grant to fund 25% of the interconnection costs through the State grant
10 program for the interconnection of public water systems. A copy of that
11 application is attached as Exhibit DLW-1 to this testimony. This exhibit
12 shows the interconnection, even without the benefit of the ARRP 50%
13 principal forgiveness, to have a far lower annual operating cost than the on
14 site treatment option. In addition, the Company filed an E-22 with the
15 Commission in June of 2008 detailing this project. Although the State had
16 previously approved the 25% grant application, the Company had delayed
17 the project because of the impact of the Commission's decision in DW 04-
18 048. See September 5, 2008 Supplemental Testimony of Donald L. Ware
19 filed in DW 08-073. Given the highly advantageous terms of the ARRP
20 funds, the Company will now proceed with the project, assuming the
21 Commission approves this financing request.

1 Q. Could you please explain difference between the \$450,000 funded by
2 the ARRP funds and the \$489,000 detailed in the E-22 filed with the
3 NHPUC in June of 2008?

4 A. Yes. The \$39,000 reduction in the estimated cost reflects a reduction in
5 the project contingency from 20% to 10% reflecting the fact that the design
6 has been completed and a more detailed engineering estimate of the
7 projected project costs has been completed.

8 Q. Could you please describe the need for the Company to replace the
9 20,000 gallon atmospheric tank at the Glenridge community water
10 system.

11 A. The Company needs to replace the 20,000 gallon atmospheric tank as the
12 existing tank has reached the end of its useful life due to significant interior
13 and exterior corrosion. The existing tank is cast into one wall of the Glen
14 Ridge booster station and is integral to the station structure making its
15 replacement more difficult. The Company is planning to replace this single
16 20,000 gallon steel tank with two 9,000 gallon precast concrete tanks.

17 Q. Please describe the need for the replacement/rehabilitation of the
18 water mains located in the French Hill area of Nashua.

19 A. The Company has over 100 miles of unlined cast iron water main. The
20 unlined cast iron water main limits fire protection, yields red water during
21 high usage periods and can cause excessive pressure drops during high
22 usage periods. A listing of the streets where the water mains will be
23 replaced and where the water mains will be cleaned and lined is attached

1 to this testimony as Exhibit DLW-2. The logic behind which streets the
2 Company will replace water main on versus cleaning and lining the water
3 main is described in my June 2008 direct prefiled testimony in DW 08-073.

4 **Q. Does this complete your testimony?**

5 **A. Yes.**

State Grant Application

Page 1 of 2

APPLICATION FOR STATE GRANT FOR PUBLIC WATER SYSTEMS
INTERCONNECTION AND WELL INVESTIGATION GRANTS UNDER RSA 486-A

SECTION I.

REQUEST AND CERTIFICATION

REQUEST FOR GRANT

GRANT REQUESTED \$ 871.21/month for 20 years
or \$209,090 in total over
20 years

ASHLEY COMMONS COMMUNITY WATER SYSTEM EPA #1562020

(City, Town, Precinct)

The Pennichuck Water Works, Inc.

(legal name of applicant)

25 Manchester Street, Merrimack, NH 03054

(herein called the "Applicant")

(address)

hereby makes application to the State of New Hampshire (herein called the "State") for assistance as indicated above for the completed construction of:

A 4.360' +/- interconnection between the Ashley Commons Community Water

System and the Milford Water System.

(herein called the "Project")

The attached statements and exhibits are hereby made part of this application, and the undersigned representative of the Applicant certifies that the information in the application and in the attached statements and exhibits is true, correct and complete to the best of his knowledge and belief. He further certifies that he has been authorized to file this application by formal action of the governing body of the Applicant as is evidenced by the attached Authorization made by the Applicant's governing body. If a State grant for the Project is made pursuant to RSA 486-A, the governing body of the Applicant agrees that: the Applicant will construct the Project in accordance with the plans and specifications approved by the division; the Applicant will provide proper and efficient operation and maintenance of the Project; the Applicant has adopted or will adopt a system of charges to assure that each recipient of water service within the Applicant's jurisdiction will pay a proportionate share of the costs of operation and maintenance, including replacement, of water services provided by the Applicant; failure to install the facilities in accord with the plans and specifications or to provide proper and efficient operation and maintenance of such facilities shall result in loss of payments of the annual grant installment next following such failure; the Applicant shall participate in regional and statewide water supply planning initiatives and to consider the results of such initiatives for purposes of long-term water supply planning and infrastructure development.

June 27, 2008

Donald L. Ware

President

(Date)

(Signature of Representative)

(Title of Representative)

Donald L. Ware

SECTION II - COST INFORMATION

Project Cost Estimates (list below or provide separate cost breakdown)

1. Engineering and other technical services	\$	21,400	Engineering Survey	\$24,986	Milford Entrance Fee
2. Construction (interconnection grants only)	\$	365,115			
3. Contingency (20%)	\$	77,303			
4. Total project cost	\$	488,804			
5. Estimated grant-eligible cost	\$	467,403			

Financing of local share of project

- Bond \$ 488,804 Term 20 years Rate 6.5 %
- Current revenue or one-year appropriation \$ 0

Required application attachments

- A certified copy of warrant articles, city council resolution, or other budget appropriation which authorizes funding of the project. For projects not yet fully funded, please include a statement as to how (town meeting, City Council, etc.) and when funding is anticipated.
- A form certifying authorization of an individual to act on behalf of the water system's governing body (Selectmen, Commissioners, etc.) (See form in application package.)
- Anticipated or actual debt amortization schedule for the project, if appropriate.
- Current water rate structure for all public water systems applying for funds or proposed to be interconnected under the project.
- A statement as to how the proposed project and resulting land use impacts conform to land use master plans in the affected municipalities.

Pennichuck Water Works, Inc. (PWW)

Grant Application for Interconnection of the Ashley Commons CWS (EPA #1562020) and the Town of Milford water system June 25, 2008

Attached please find the following information to support this application:

1. An estimate of the cost to connect the Ashley Commons CWS with the Town of Milford water system. This estimate includes a life cycle cost analysis that details that the interconnection of the Ashley Commons CWS with the Town of Milford water system is the preferred option to upgrading the Ashley Commons water supply facilities in regards to correcting the water quality problems at Ashley Commons.

The Ashley Commons CWS is currently provided water with a single well that has fluoride levels in excess of 2 ppm, high levels of sulfates, total dissolved solids and hardness. The nature of the water makes it aggressive to copper and brass and as a result the customers in this system have experienced shortened copper pipe and water fixture lives.

This project was not part of the original 2008 Pennichuck Water Works capital improvements plan. The Pennichuck Water Works Board is aware of the proposed project (as witnessed by the Corporate resolution regarding the Company's filing for the grant application) and has authorized the project construction as witnessed by the attached approved Capital Expenditure Form. The Company plans to install the required water main this fall.

2. This project is planned for construction during the fall of 2008. The Company is currently evaluating its available construction financing options. At present the Company is considering financing the project via a 20 year 6.5% mortgage style loan from the Pennichuck Corporation to Pennichuck Water Works.
3. The Resolution by the PWW Board authorizing Donald L. Ware or John Boisvert to act on behalf of PWW regarding this grant application.
4. The debt amortization schedule for the proposed inter company loan referenced in paragraph 2 above is attached. The attached amortization schedule assumes that the project will be funded with the proceeds from this loan.
5. A copy of PWW's current rate structure is attached.
6. The Ashley Commons CWS is fully built out therefore the interconnection with the Town of Milford Water System will not impact land use in Milford and will not impact the Milford master plan.

Pennichuck Water Works, Inc.
2008 Capital Improvements Request/Company Expenditures Authorization

Part A: Capital Improvements Budget Request - To be completed by the Project Manager

Work Order Project - Equipment -

Date: 6/25/08

Project Manager: DW

Project Name : Ashley Commons - Town of Milford water system interconnect

Will you be managing the project? Yes

Project Location: Milford

If No, Name Person: _____

Project Description - The Project will result in connecting the Ashley Commons Water System to the Town of Milford Water System resulting in the discontinuance of the Ashley Commons on site water supply. The interconnection will involve the installation of about 3850 LF of 12" water main along Emmerson and Armory Road and about 540 LF of 8" water main along Old Brookline Road and Ashley Drive

Problem Statement - The water from the Ashley Commons well is high in fluoride, sulfates, hardness and total dissolved solids. The Fluoride levels are over the secondary SDWA limits. The sulfates and TDS make the water very aggressive to the piping and water fixtures inside the homes at Ashley Commons resulting in premature pipe and fixture failures

Check applicable performance measures which will be improved by this project -

Customer Satisfaction - Equipment Replacement - Regulatory Compliance -

Customer Growth - New Technology - Other -

Check applicable Asset Treatment for this project -

New Asset, No replacement of existing asset -

New Asset, Replaces an existing asset, Retirement with no COR* -

New Asset, Replaces an existing asset, Retirement with COR -

Asset Removal, no replacement, Retirement with COR -

Deferred Asset - Recommended Amortization Period - _____ years

Description of Asset to be retired - Ashley Common Booster Station, Tank,

Treatment

*COR - Cost of Removal

Project Justification - Cite data quantifying benefits. Discuss any alternatives considered. Show cost-benefit analysis if appropriate.

The Company needs to install new treatment or find a new source of water from this water system. Attached please find an analysis of the cost of rebuilding the existing booster station and treatment system vs. interconnecting the Town of Milford Water System. The interconnection is the least cost option for solving the water quality problems at Ashley Commons. *

Attach additional supporting data as necessary

Pennichuck Water Works, Inc	
Ashley Commons Upgrade	
Life Cycle Cost Analysis	
27-Jun-08	
On Site Storage and Treatment -	
Well Electricity (3 HP)* -	\$ 384
Annual Well maintenance -	\$ 459
Annual Well Water Quality Sampling -	\$ 6,318
Treatment System Labor (3 hours per week)-	\$ 8,132
Booster Electricity (5 HP @ 8 Hrs/day) -	\$ 1,097
Misc. Electricity -	\$ 329
Dispose of Brine Backwash -	\$ 750
Treatment Chemicals -	\$ 5,900
Deprecation on Storage (9,000 gallons) @ 2% -	\$ 774
Depreciation on Zone Booster and treatment @ 2.5% -	\$ 10,343
Property Taxes -	\$ 9,186
Pretax ROI on Total Project -	49,071
Estimated Annual Operating Cost -	\$ 92,742
Estimated Annual Increase in PWW Bill -	3.95
Purchased Water from the Milford Water Department -	
Purchased Water Cost -	\$ 4,696
Depreciation on Water Mains @ 1.33% -	\$ 6,501
Deprecation on Storage @ 2% -	\$ -
Property Taxes -	\$ 2,377
Pretax ROI on Total Project -	\$ 51,573
Less 25% grant on Interconnect -	\$ (10,933)
Estimated Annual Operating Cost -	\$ 54,214
Estimated Annual Increase in PWW Bill -	2.31
Model Data:	
Average cost per KwHr -	\$ 0.13
PWW Debt -	6.50%
PWW Equity -	9.75%
PWW percent equity -	42%
PWW marginal tax rate -	60.39%
PWW pretax ROI -	10.55%
Number of in PWW customers -	23486
*Based on (gpd/house)	181
Existing Ashley Commons Well production (gpm)-	25
Number of Homes @ Ashley Commons -	29
Town Mil Rate -	\$19.8
Labor and Truck Rate per hour -	\$52.1
Purchased Water Cost from Milford (per 748 gallons)-	\$ 1.83
On site Capex per Estimate-	\$ 465,090
Interconnection Capex per Estimate (Includes Milford Entrance Fee) -	\$ 488,804
Milford Entrance Fee (per gallon) -	\$ 4.76
Milford Entance Fee for Ashley Commons -	\$ 24,985.24

Ashley Commons					
Milford NH					
3/31/2008					
Emerson Road & Armory Road					
Inventory					
3,825	Fl	12" DI Pipe	\$	23.49	\$ 89,849.25
5	Ea.	12" Mj DI Gate Valves	\$	1,129.00	\$ 5,645.00
1	Ea.	12" x 12" Mj DI Tee	\$	481.00	\$ 481.00
1	Ea.	12" x 8" Mj DI Tee	\$	400.00	\$ 400.00
15	Ea.	12" Mega Lugs	\$	61.70	\$ 925.50
1	Ea.	12" Mj Plug	\$	90.75	\$ 90.75
535	Fl	8" CL52 DI CL Pipe	\$	15.35	\$ 8,212.25
1	Ea	8" Tyon Plug	\$	50.85	\$ 23.99
2	Ea	8" MEGA LUGS	\$	31.52	\$ 63.04
2	Ea	8" Gate Valve	\$	572.00	\$ 1,144.00
1	Ea	8" X 4" Mj DI Tee	\$	37.00	\$ 37.00
50	Fl	4" CL52 DI CL Pipe	\$	10.64	\$ 532.00
2	Ea	4" Mj DI 45 Bends	\$	77.00	\$ 154.00
1	EA	4" Mj DI 90 Bends	\$	80.34	\$ 80.34
1	Ea	4" Mj DI Sleeve	\$	79.38	\$ 79.38
1	Ea	4" Mj DI Gate Valve	\$	281.63	\$ 281.63
10	Ea	4" Mega Lugs	\$	18.65	\$ 186.50
14	Ea	Thrust Block	\$	25.00	\$ 350.00
95	Fl	12" CL 51 DI CL Pipe/ Field Lock Gaskets	\$	23.49	\$ 2,231.55
100	Fl	18" AWWA C-900 Pipe	\$	35.00	\$ 3,500.00
16	ea	12" S.S spacers	\$	300.00	\$ 4,800.00
4	Ea	US Met 94 Hydrants	\$	1,509.00	\$ 6,036.00
3	Ea	12" x 6" DI MJ Tees	\$	444.00	\$ 1,332.00
1	Fl	8" x 6" DI MJ Tees	\$	256.17	\$ 256.17
35	Fl	6" CL52 DI CL Pipe	\$	11.14	\$ 389.90
8	Ea	8" Mega Lugs	\$	22.40	\$ 179.20
4	Ea	6" Gate Valve	\$	359.13	\$ 1,436.52
11	Ea	Gate Boxes	\$	40.00	\$ 440.00
3	Ea	1" Air Release Valves	\$	178.83	\$ 536.49
				Sub Total	\$ 129,673.46
LABOR, EQUIPMENT & MATERIAL					
32	Days	Large Crew	\$	3,900.00	\$ 124,800.00
83	Tons	Road Restoration	\$	80.00	\$ 6,640.00
27	Tons	Road Restoration	\$	80.00	\$ 2,160.00
14	Yds	Rte 13 Road Restoration	\$	80.00	\$ 1,120.00
4.9	Tons	Rte 13 Road Restoration	\$	80.00	\$ 392.00
4	Days	Traffic Control	\$	110.00	\$ 440.00
33	Days	Traffic Control	\$	45.00	\$ 1,485.00
385	Yds	Graveled and pavement cut back 18"	\$	55.00	\$ 21,175.00
2090	Yds	SAND	\$	22.00	\$ 45,980.00
215	Yds	Driveways Pavement	\$	68.00	\$ 14,620.00
2450	Yds	Loam & Seed	\$	10.00	\$ 24,500.00
4510	Fl	Engineering Design & Inspection	\$	3.00	\$ 13,530.00
4510	Fl	Survey			\$ 7,900.00
				Sub Total	\$ 256,842.00
				Total	\$ 386,616.46
				Contingencies	\$ 77,303.09
				Grand Total	\$ 463,919.55

Pennichuck Water Works		
Ashley Commons Capex Estimates		
9-Jun-08		
	On Site with Treatment	
Site Work:		
Clearing & Grubbing -	\$ 15,000	
Driveway & Parking -	\$ -	
Set and Backfill Tanks -	\$ 11,400	Includes Crane Rental
Backfill Tanks (Materials only) -	\$ 4,200	280 CY @ \$15/CY
Stone Base for Tanks -	\$ 575	23 CY @\$25/CY
Utility Piping:		
Water (Tanks to Building, Overflow, well) -	\$ 12,700	Piping Old to New
Propane Gas (1000 gallon Tank) -	\$ 10,100	Purchase, set and pipe
Landscaping -	\$ 8,700	725 SY @ \$12/SY
Building Structure:		
Frost Wall, Block, Roof, Doors, Slab -	\$ 78,400	28'x16' Building @\$175/SF
Process:		
Softening -	\$ 14,000	Pressure Filters
Fluoride and Sulfates (RO) -	\$ 22,000	Packed Tower
Chem Feed - Chlorine, Corrosion Control -	\$ 5,000	Chlorine & Phosphate
Storage (9,000 Gallons) -	\$ 15,000	Above Ground
Backwash/Residuals -	\$ 7,500	2,000 gallon Holding Tank
Mechanical:		
Piping -	\$ 72,000	
Heating -	\$ 1,500	
Booster Pumps (2@5 HP) -	\$ 4,500	
Electrical:		
Electrical Installations, Inc. -	\$ 65,000	
Generator -	\$ 28,000	
Demolition of Existing Station -	\$ 12,000	
Total Estimated Project Cost -	\$ 387,575	
Project Contingency (20%) -	\$ 77,515	
Total Estimated Project Cost -	\$ 465,090	
Booster Station costs -	\$ 413,715	
Water Main Costs -	\$ 12,700	
Storage Costs -	\$ 38,675	

Pennichuck East Utilities		
Maple Hills SRF Estimate		
Anticipated Monthly Payment		
27-Jun-07		
Amount of Loan -	\$ 488,804	
Mortgage Style Payment -	(\$3,644.39) per month	
Data:		
Duration of Bond -	20	Years
Interest Rate -	6.50%	
Number of Payment Periods -	240	

SECRETARY'S CERTIFICATE

I, Richard A. Samuels, duly qualified and acting Secretary of Pennichuck Water Works, Inc., and keeper of its records, including the minutes of meetings of the Board of Directors, hereby certify:

1. That the attached resolution is a true and correct copy of the resolution as adopted by unanimous consent of the Board of Directors on the 17th day of June, 2008 and has not been amended or repealed and remains in full force and effect on the date of this Certificate; and
2. That said consent was duly obtained in all respects in accordance with law and to the extent required by law, due and proper notice of such was given; and a legally sufficient number of members of the governing body voted in the proper manner and for the adoption of said resolution; that all other requirements and proceedings under the law incident to the proper adoption or passage of said resolution including publication, if required, have been duly fulfilled, carried out, and otherwise observed; and that I am authorized to execute this Certificate.

IN WITNESS WHEREOF, I have hereunto set my hand this 18th day of June, 2008


Richard A. Samuels, Secretary

**Proposed Resolutions Granting Construction of the Ashley Commons Community
Water System**

VOTED: That the Board of Directors hereby determines that construction of Interconnection of the Ashley Commons Community Water System, EPA #1562020 with the Town of Milford Water system, via 3,825' +/- of water main; and 535' of 8" water main (the "Project") is desirable and in the public interest, and to that end it is necessary to apply for assistance through an interconnection grant from the New Hampshire Department of Environmental Services and, therefore,

That Donald L. Ware and John Boisvert, and each of them, are hereby authorized on behalf of the Corporation to file an application for a grant to be made in accordance with New Hampshire Code of Administrative Rules Chapter Env-Dw 1100;

That if such grant is made, the Corporation agrees to repay any loan associated with the project as stipulated in the grant agreement;

That each of Donald L. Ware and John Boisvert are hereby authorized to furnish such information and to take such other action as may be necessary to enable the Corporation to qualify for the grant;

That each of Donald L. Ware and John Boisvert are hereby designated as an authorized representative of the Corporation for the purpose of furnishing such information, data, and documents pertaining to the applicant for a grant as may be required, and otherwise to act as the authorized representative of the Corporation in connection with this application;

That certified copies of this resolution be included as part of the application to be submitted for a grant; and

This if such grant is made, the Corporation agrees to make provisions for assuming proper and efficient operation and maintenance of the facilities after completion of the construction thereof.

Notice to Customers

RATES APPROVED BY THE NHPUC

The New Hampshire Public Utilities Commission (NHPUC) approved a 11.07% rate increase for service rendered effective July 18, 2006 for general metered customers and a 20.50% step increase for service rendered effective January 5, 2007 for all customers. On June 19, 2007, an additional 3.07% increase was approved for service rendered effective June 1, 2007 for all customers. The following schedule shows the rates for each category of service:

MONTHLY GENERAL METERED RATE

Meter Size	Rate
5/8"	\$15.36
3/4"	\$22.11
1"	\$35.61
1 1/2"	\$69.39
2"	\$113.60
3"	\$208.32
4"	\$343.57
6"	\$681.74
8"	\$1,087.64
10"	\$1,561.06

In addition to this standard customer charge, the monthly volumetric charge is:

\$2.40 per 100 Cubic Feet
100 Cubic Feet = 748 gallons

MONTHLY PRIVATE FIRE PROTECTION

The charge shall be determined by the size of the pipe entering the property as follows:

Connection Size	Charge
4" or smaller	29.35
6"	49.25
8" or larger	72.51

Customers may direct any questions concerning rates or service to Pennichuck at its company's Customer Service Department, PO Box 1947, Merrimack, NH 03054-1947, by calling 603-882-9191 or 1-800-553-5191 or via email at customer-service@pennichuck.com. Customers may also contact the NHPUC at their offices at 21 S. Fruit Street, Concord, NH 03301, or by phone at 1-800-852-3793.



PENNICHUCK

25 Manchester Street, PO Box 1947
Merrimack, NH 03054-1947

2009-03 FRENCH HILL WATER MAIN IMPROVEMENTS

<u>Street</u>	<u>Amount of Main Replaced</u>	<u>Amount of Main to be Relined</u>
Cross St	93' of 1 1/2" steel	1647' of 6" CIP
Holman / Grove St	354' of 2" steel	
Jefferson St	844' of 4" CIP	172' of 6" CIP
Lessard St	470' of 4" CIP	
Lock St		2450' of 6" CIP *
Norton St	435' of 4" CIP	330' of 6" CIP
Shattuck St		540' of 6" CIP
Summer St	260' of 6" CIP	606' of 6" CIP
TOTALS	2456 ft	5745 ft

*The City of Nashua is considering replacement of Sewer and Drain on a portion of Lock St both within and outside the scope of our proposed work. The proposed sewer work will force replacement of a portion of the water main rather than relining.