DW-SRF 2010 Project
Proposal for Green Project Reserve Methodology using format from EPA's • June 22, 2009 guidance for GPR business cases

ESTIMA	TE OF	VALUE OF WATER LOSS WORKSHEET			
1	Date:		6-Apr-10		
- 2	PWSID #	<i>‡</i>	90320		
	System	· · · · · · · · · · · · · · · · · · ·	CARIBOU UTILI		
- 2	Project N		Main Replaceme	TO THE RESERVE THE SECOND SECO	
	Location	ring Consultant	Alan Hitchcock. F	ughan to Lyndon)	
		Main size, age, and type	6" & 8" cast iron		
		d New Water Main size and type	12" Ductile Iron c		
		n Pipe Length	1,55		
10) Estimate	d Project Cost	\$ 284,07	70	
	a from Ut	ilities Annual Report (2008) to Maine Public Ut	ilities Commissior		<u>2008</u>
Page	Line	<u>Description</u>		<u>Units</u>	170 070 000
W-12 W-12	15 17	Total Production Water Total Revenue Water		gallons per year gallons per year	178,872,000 109,800,000
W-12	19	Total Non-Revenue Water		gallons per year	69,072,000
W-12	19	Percent Non-Revenue Water			39%
W-12	22	Utility Usage - treatment		gallons per year	1,818,000
W-12	23	Utility Usage - hydrant flushing		gallons per year	4,370,000
W-12 W-12	14 26	Utility Usage - bleeders Utility Usage - all other (running customers & blo	w-offs)	gallons per year gallons per year	2,857,000
W-12	30	Fire Protection	11-0113)	gallons per year	1,325,000
W-12	31	Main Breaks		gallons per year	8,575,000
W-12	35	Flushing Mains		gallons per year	10.015.000
W-12 W-12	36 37	Total Accounted for Non-Revenue Water Total Unaccounted Non-Revenue Water		gallons per year gallons per year	18,945,000 50,127,000
VV-12	31			50 - C.	6001 (0.00 pm.) (0.00
		Estimated Water Loss From ALL Breaks, Lea		gallons per year	61,559,000
		(PUC Accounts total of lines 14, 26,31,35 and % of Water Loss of Total Production Water	u 37)		34%
1		(PUC Lines 14,26,31,35,37 divided by Line 15	0		3470
	•		,	f1	0.050
W-9 W-9	9 23	Total Transmission Mains Total Distribution Mains		feet feet	9,856 161,237
VV-3	20	Total Mains in Service		feet	171,093
		Total Mains in Colvins		miles	32
		Estimated Distribution System Losses:			
		Loss Water per mile of pipe		gallons per mile per year	1,899,736
		Loss Water per foot of pipe per year Loss water per foot of pipe per day		gallons per foot per year gallons per foot per day	360 0.99
1		Loss water per loot of pipe per day		ganons per root per day	0.55
1		Water loss will vary with age of water main - asse			
		0 to 25 year old pipe		s gallons per mile per year	****
		26 to 50 year old pipe 51 to 75 year old pipe	10% of Total Los 30% of Total Los		189,974 569,921
1		over 75 year old pipe	60% of Total Los		1,139,842
1		,	,	All Loses:	
					Section (
		Age of Main to be replaced		years	100
		Length of Main to be Replaced CALCULATED WATER LOSS - FOR PROPOS	ED BBO IECT	mile gallons per year	0.29 334,613
1		CALCOLATED WATER LOSS - FOR PROPOS	EDPROJECT	gallons per year	334,013
W-2	29c	Total PRODUCTION COST of Water		\$/year	\$ 528,829
W-12	15	Total Production Water		1,000 gallons per year	178,872
		Production Cost of Water		per 1,000 gallons	\$ 2.96
		PROJECTED ANNUAL VALUE of WATER LOS	ss	per year	\$ 989
		THOUSE THE PARTY OF THE PARTY O		per year	•
				Annual Savings	\$ 989
		PV Factor (u	niform series prese	nt worth factor (1%, 75 years)	
				er Economic life of pipeline	
		VPTC - 2012 May (V 2017 T2017 V 2017		Project Cost	, m
				PV Percent of Project Cost:	
					and a control of
				ESTIMATED % Green \$ Amount Green	
				4 Amount Green	9 32,023



Maine Center for Disease Control and Prevention

An Office of the Department of Health and Human Services

John E. Baldacci, Governor

Brenda M. Harvey, Commissioner

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Augusta, Maine 04333-0011

Tel: (207) 287-2070; Fax: (207) 287-4172

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State of Maine Drinking Water Program
GREEN PROJECT RESERVE
BUSINESS CASE for a
WATER MAIN REPLACEMENT

ESTIMATE OF VALUE OF WATER LOSS

April 13, 2010

The Fiscal Year (FY) 2010 Appropriation Law (P.L. 111-88) included additional requirements affecting the Drinking Water State Revolving Fund (SRF) program. EPA has developed *Draft Procedures for Implementing Certain Provisions of EPA's Fiscal Year 2010 Appropriation Affecting the Clean Water and Drinking Water State Revolving Fund Programs* dated March 3, 2010. Public Law 111-88 included the language "Provided, that for fiscal year 2010, to the extent there are sufficient eligible project applications, not less than 20% of the funds made available under this title to each State for the Clean Water and Drinking Water State Revolving funds and not less than 20% of the funds made available under this title to each State for Drinking Water State Revolving Fund capitalization grants shall be used by the State for projects to address green infrastructure, water or energy efficiency improvements, or other environmentally innovative activities."

One of the project area identified in the EPA Green Project Guidance Documents is identified as Water Efficiency Improvements "distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks". A Business Case Analysis if required for a water main replacement project to be approved as providing "Water Efficiency Improvements".

The purpose of this document is to provide public water utilities regulated by the Maine Public Utilities Commission (MPUC) with a standard procedure for calculating an estimate of the value of the water losses saved in conjunction with a water main replacement project. This method does not preclude a utility from providing an alternative calculation methodology based on project specific information. Such alternative documentation shall be reviewed and may be approved by the MDWP.

The Maine Public Utilities Commission (MPUC) requires all Maine water utilities file an Annual Report with the Commission. The Annual Report is the source of much information useful for preparing an estimate of value of water loss for a Business Case analysis of Green Project Reserve.

The attached methodology utilizes specific data from a utility's Annual Report to the MPUC. Page W-12 provides a detailed analysis of utilities water production and consumption information. Specific details include Production Water (line 15), Revenue Water (Line 17), as well as estimated water losses from bleeders, blow-offs, main breaks, service leaks, and main flushing.

Page W-9 of the PUC Annual Report provides information on total transmission and distribution mains in service as well as annual additions and deletions.

With information on Page W-12, one can calculate total water losses from all breaks, leaks, and bleeders. From Page W-9, one can identify the total length of mains in service. With these two pieces of information, one can calculate the estimated water loss in gallons per foot of pipe per day.

Knowing that older water mains and services will typically be the source of more leaks, or water losses, a ratio to distribute water losses by the age of mains. Pipes 0 to 25 years old are not expected to leak therefore no water loss is attributed to pipes less than 25 years old. Pipes 26 to 50 years old will account for 10% of all water losses. Pipes 51 to 75 years old will account for 30% of water losses and pipes older than 75 years will represent 60% of all pipeline water losses.

Using the average water loss per foot and the specific pipeline proposed for replacement, one can allocate water losses associated with the proposed project.

Using the water production cost information found on Page W-2, one can calculate the Annual Projected Value of Water Loss associated with the proposed project.

The MPUC allows depreciation of water distribution mains over a 75 year period. Using the MPUC time period (which should be the absolute minimum that a new water main will remain in service, or economic life) a Present Value (PV) calculation can be made of the an Annuity (Annual Value) of Water Loss using a 1% value of money over 75 years.

MPUC defines "Service Life" as the average length of time a unit of equipment will remain in service taking into account factors such as the effect of normal wear and tear, economic and technological obsolescence and public requirements.

The resulting PV can be compared with the Project Cost Estimate to determine the % of project expense attributed to the value of reduced water loss.

ANNUAL REPORT

For Water Utilities

OF

Name	Caribou Utilities District
Address	PO Box 879 Caribou, Maine 04736
PUB:	TO THE LIC UTILITIES COMMISSION
	OF THE
	STATE OF MAINE
	FOR THE
YEAR E	NDED DECEMBER 31,2008
Signature of Person responsible for report	Kendall Roy
	TITLE President
	TELEPHONE
	E_MAIL

Ca	1	1	ine Number	ACCT.	ACCOUNT NAME	CURRENT YEAR	.1 Source of Supply & Pumping Expenses-Operations	.2 Source of Supply & Pumping Expenses- Maintenance
Salaries and Wages - Officers, Directors and Majority Stockholder	Salaries and Wages - Officers, Directors and Majority Stockholder	Salaries and Wages - Officers, Directors and Majority Stockholder	_	(a)	(b)	(c)	(d)	(e)
Salarics and Wages - Officers, Directors and Majority Stockholders	Salaries and Wages - Officers, Directors and Majority Stockholder	Salarics and Wages - Oliteers, Directors and Majority Stockholders		601	Salaries and Wages - Employees	251,509	35,996	
Contractual Services - Cher Contractual Services - Other Contractual Services - Contractual Services - Other Contrac	Contractual Services - Legal Contractual Services - Other	Contractual Services - Color Contractual Services - Color		603	Salaries and Wages - Officers, Directors and Majority Stockholder			
Section	5	Section	3					
6 615 Purchased Power 59,248 52,659 7 616 Fuel for Power Purchased 8 618 Chemicals 12,166 6 9 620 Materials and Supplies 68,043 6,372 10 631 Contractual Services - Engineering 5 11 632 Contractual Services - Accounting 5,013 2 13 634 Contractual Services - Legal 7 14 635 Contractual Services - Other 8 15 641 Rental of Building/Real Property 17,120 1 16 642 Rental of Equipment 1 17 650 Transportation Expenses 16,826 1 18 656 Insurance - General Liability 9,536 1 18 657 Insurance - General Liability 9,536 1 18 1059 Insurance - Workman's Compensation 7,297 1 10 10 10 10 10 10 10 10 10 10 10 10 10 1	6 615 Purchased Power 59,248 52,659 7 616 Fuel for Power Purchased 8 618 Chemicals 12,166 6 9 620 Materials and Supplies 68,043 6,372 10 631 Contractual Services - Engineering 5,013 11 632 Contractual Services - Legal 221 13 634 Contractual Services - Hanagement Fees 214 635 Contractual Services - Other 8 15 641 Rental of Building/Real Property 17,120 16 642 Rental of Equipment 560 Insurance - Vehicle Insurance - General Liability 9,536 Insurance - General Liability 9,536 Insurance - Other 10 Insurance - Other 11 Insurance - Other 11 Insurance - Other 12 Insurance - Other 12 Insurance - Other 13 Insurance - Other 14 Insurance - Other 15 Insurance - Other 16 Insurance - Other 17 Insurance - Other 18 Insurance - Oth	6 615 Purchased Power 59,248 52,659 7 616 Fuel for Power Purchased 8 618 Chemicals 12,166 6 9 620 Materials and Supplies 68,043 6,372 10 631 Contractual Services - Engineering 5,013 11 632 Contractual Services - Legal 221 13 634 Contractual Services - Management Fees 14 635 Contractual Services - Other 16,120 17,120	4	604	Employee Pensions and Benefits	78,024		
Tell Fuel for Power Purchased 12,166 12,167 12,172 13,172 14,172 15,17	Fuel for Power Purchased	Fuel for Power Purchased	5	610	Purchased Water			
Section	Section	Section	6	615	Purchased Power	59,248	52,659	
9 620 Materials and Supplies 68,043 6,372 10 631 Contractual Services - Engineering 5,013 11 632 Contractual Services - Accounting 5,013 12 633 Contractual Services - Legal 221 13 634 Contractual Services - Management Fees 14 635 Contractual Services - Other 15 641 Rental of Building/Real Property 17,120 16 642 Rental of Equipment 17 17 650 Transportation Expenses 16,826 18 656 Insurance - Vehicle 9,536 19 657 Insurance - General Liability 9,536 20 658 Insurance - Other 18 21 659 Insurance - Other 18 22 660 Advertising Expense	9 620 Materials and Supplies 68,043 6,372	9 620 Materials and Supplies 68,043 6,372	7	616	Fuel for Power Purchased			
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11	11	11	9	620	Materials and Supplies	68,043	6,372	
11	11	11	10	631	Contractual Services - Engineering			
12	12	12	11			5,013		
13	13	13						
14 635 Contractual Services - Other	14 635 Contractual Services - Other	14 635 Contractual Services - Other						
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19	19	19	-			10,820		
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27 675 Miscellaneous Expenses 3,815 28	27 675 Miscellaneous Expenses 3,815 28	27 675 Miscellaneous Expenses 3,815 28	26	670		11		
28	28	28	27			3,815		
1 1]]]	l I	28					
				ļ	Total Water Utility Expenses	528,829	95,027	

Line Number Name of Source Name of	Post chlorination with 15% Sodium Hypchlorite for disinfection; Flouride for dental health; Polyphosphat for corrosion control.
Line Number Name of Source Line Number Line Number	Post chlorination with 15% Sodium Hypchlorite for disinfection; Flouride for dental health; Polyphosphat for corrosion control.
1	Post chlorination with 15% Sodium Hypchlorite for disinfection; Flouride for dental health; Polyphosphat for corrosion control.
2 Theriault Well X X 3 4 5 6 7 8	15% Sodium Hypchlorite for disinfection; Flouride for dental health; Polyphosphat for corrosion control.
Theriault Well X X 4 5 6 7 8	disinfection; Flouride for dental health; Polyphosphat for corrosion control.
5 6 7 8	for corrosion control.
7 8	
	New wells on line July, 200
9 10 11	
FEET OF TRANSMISSION AND DISTRIBUTION MAINS	
Explain any important items included in column (f)	- D- In Hea
Kind of Pipe (Galvanized, Cast Iron, Diameter In Use First of Year Added During Year during Yr (or Cr.) during Yr	ng Yr End of Year
(a) (b) (c) (d) (e) (f)	(g)
Transmission	10
2 Cast Iron 18 18	18 8,042
3 12 8,042 4 8 1,796	1,796
5 Total Transmission 9,856 0 0	0 9,8
6 Distribution 12 4,166	4,166
7 10 2,830	2,830
8 Cast Iron 8 34,027	34,027
9 Cast Iron 6 68,849	68,849
10 Cast Iron 2.25 6,806	6,806
11 Cast Iron 2 814	814
12 Galv. Iron 2 258	258
13 Copper 1 1,761	1,761
14 Ductile Iron 12 16,168	16,168
15 Ductile fron 10 1,873	1,873 9,054
16 Ductile Iron 8 8,814 240	6,466
17 Ductile Iron 6 6,466 18 Ductile Iron 4 706	706
19 PVC 10 1,293	1,293
20 PVC 8 1,040	1,040
21 PVC 6 4,376	4,376
22 PE 2 0 750	750
23 Total Distribution 160,247 990 0	0 161,2
Miles of pipe = 30.76912879	30,95662879

WATER PRODUCTION AND CONSUMPTION

1. Show quantities of water produced and purchased and the quantities delivered to consumers and lost or unaccounted for during the year. Where estimates are used, the basis thereof should be set forth in a footnote.

	Thousand Gallons Delivered to Mains Month Groundwater Su						
Number	Month					Water	
	(a)	Purchased (b)	By Pumping	By Gravity	By Pumping	By Gravity	
1	(a)	(0)	(c)	(d)	(e)	(f)	
2	January		15,162				
3	February March		13,784				
4	April		15,128 15,180				
5	May		13,867				
6	June		14,017				
7	July		15,941				
8	August		15,895				
9	September		15,048				
10	October		14,401				
11	November		14,265				
12	December		16,184				
13	Totals	0	178,872	0	0		
14						THOUSAND GALLO	
15	Total PRODUCTION WATER					178,872	
16							
17	Total REVENUE WATER (Page	W-3, line 20, col. e) or	0			109800	
18							
19	Balance as NON-REVENUE WA	ATER	State Percentage:	38.62%	4	69072	
20							
21	Description and estimated cons	The second secon	Vater				
22	Utility Usage-at source/treatmen	0.00				1818 4370	
23	Utility Usage-flushing hydrants Number flushed: 146 Utility Usage-bleeders Number in use:						
24							
25							
26	Utility Usage-other purposes (specify): Drain, paint, fill, SMLS tank Municipal pool, ice rink						
27	Running water customers (winter) 10						
28	Running water customers (winter	r) 1	0			1687	
30	Fire Protection	Numba	of hydrant-using fires:	2		1325	
31	Main Breaks	The second secon	of breaks:	20		8575	
32		ervice Line losses before meters Number of cases: 3				545	
33	Other Non-Revenue uses/losses (specify): National Guard						
84	Street Flushing						
35	Sewer Flushing					6530 4630	
36	Total Accounted for Non-Revenue Water (Lines 22 through Lines 35)						
37	Total Accounted for Non-Revenue Water (Lines 22 through Lines 35) Unaccounted for Water						
38	Total Non-Revenue Water (Lines	s 36 plus Line 37)				36447 69072	
39	(2010)						
48	System DEMAND Data	Quantity (mgd)	Date				
11	Average Daily Demand:	0.424					
12	Maximum Day Demand:	0.62	1/26/2008				
	Peak Hour Demand: 65	0 GPM					

41 Average Daily Demand: 0.424
42 Maximum Day Demand: 0.62 1/26/2008
43 Peak Hour Demand: 650 GPM

Remarks

W-12