DW-SRF 2011 Project

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

	6DE 55	O IECT ID #	0044.00		
	-	ROJECT ID #	2011-02		
	Date:		10/23/2012		
	PWSID :	7	ME0090040	OTD.OT	
3 Syste			ANSON WATER DISTRICT		
	Project N		Main Replacement Project		
	Location		Main Street		
6	Enginee	ring Consultant	Dirigo		
7	' Existing	Main size, age, and type	8" cast iron unlined		
8	B Proposed New Water Main size and type New Main Pipe Length		12 unch Ductile Iron		
9			(6,200	
10) Estimate	ed Project Cost	\$ 1,038,9	3,975	
					2011
		ilities Annual Report to Maine Publ	ic Utilities Commission		<u>2011 data</u>
age	<u>Line</u>	<u>Description</u>		<u>Units</u>	
/-12	15	Total Production Water		gallons per year	73,746,0
/-12	17	Total Revenue Water		gallons per year	34,938,0
V-12	19	Total Non-Revenue Water		gallons per year	38,808,0
V-12	19	Percent Non-Revenue Water			5
V-12	22	Utility Usage - treatment		gallons per year	
/-12	23	Utility Usage - hydrant flushing		gallons per year	
/-12	14	Utility Usage - bleeders		gallons per year	
V-12	26	Utility Usage - all other (running cus	stomers & blow-offs)	gallons per year	
V-12	30	Fire Protection	J.SOIG & DIGW OIIG	gallons per year	
V-12 V-12	31	Main Breaks		gallons per year	
V-12	35	Flushing Mains		gallons per year	·
V-12	36	Total Accounted for Non-Revenue		gallons per year	
V-12	37	Total Unaccounted Non-Revenue V	Vater	gallons per year	38,808,0
		Estimated Water Loss From ALL (PUC Accounts total of lines 14,	•	ers gallons per year	38,808,0
		% of Water Loss of Total Produc	tion Water		5
M 0	0	(PUC Lines 14,26,31,35,37 divide	d by Line 15)	faat	70.0
N-9	9	Total Transmission Mains		feet	72,6
N-9	23	Total Distribution Mains		feet	48,4
		Total Mains in Service		feet	121,0
				miles	
		Estimated Distribution System Loss	ses:		
		Loss Water per mile of pipe		gallons per mile per year	1,692,9
		Loss Water per foot of pipe per yea	ır	gallons per foot per year	3
		Loss water per foot of pipe per day		gallons per foot per day	0
		Water loss will vary with age of wat	er main - assume Straigh	t line projection as follows:	
		0 to 25 year old pipe	0 % of Total Loss	gallons per mile per year	
		26 to 50 year old pipe	10% of Total Loss	gallons per mile per year	169,2
			30% of Total Loss		
		51 to 75 year old pipe		gallons per mile per year	507,8
		over 75 year old pipe	60% of Total Loss	gallons per mile per year	1,015,7
				All Loses:	1,692,9
		Age of Main to be replaced		years	
		Length of Main to be Replaced		mile	1
		CALCULATED WATER LOSS - FO	אם מפתחשפים מפת ובת		1,192,7
		OALGOLATED WATER LUSS - FC	M FROFUSED FRUJEU	T gallons per year	1,192,7
V-2	29c	Total PRODUCTION COST of Wat	er	\$/year \$	\$ 231,8
/-12	15	Total Production Water		1,000 gallons per year	73,7
VV-12	10	Production Cost of Water		per 1,000 gallons \$	
		PROJECTED ANNUAL VALUE of	WATER LOSS	per year	3,7
		THOSE OF EATHER THE SECOND		por your	<i>,</i> – – – – – – – – – – – – – – – – – – –
				Annual Savings \$	\$ 3,7
		PV	Factor (uniform series pro	esent worth factor (1%, 75 years):	
				s over Economic life of pipeline:	
]		to the control of the	, 131,2
				Project Cost \$	\$ 1,038,9
				PV Percent of Project Cost:	1
				-	
				ESTIMATED % Green	
		1		\$ Amount Green \$	\$ 197,