

## **BUSINESS PLAN TEMPLATE**

# FOR PROPOSED

## **COMMUNITY**

## **PUBLIC WATER SUPPLY SYSTEMS**

New Hampshire Department of Environmental Services
Water Supply Engineering Bureau
Public Water System Capacity Development

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#### INTRODUCTION AND INSTRUCTIONS

The 1996 amendments to the federal Safe Drinking Water Act (SDWA) included provisions that required each State to establish a program to "...ensure that all new community water systems and new nontransient, noncommunity water systems commencing operations after October 1, 1999 demonstrate technical, managerial, and financial capacity with respect to each national primary drinking water regulation in effect, or likely to be in effect, on the date of commencement of operations". (42 U.S.C.300g-9 section 1420a.) To satisfy this federal requirement, New Hampshire adopted administrative rule Env-Ws 371, "Capacity Assurance for Proposed Public Water Systems" effective September 23, 1999. Most of this rule describes how to prepare a business plan, which is the document that will be used to demonstrate a proposed water system has adequate technical, managerial and financial capacity.

All proposed community public water systems in New Hampshire therefore need to submit a business plan, defined in Env-Ws 371.03 (a) as:

"...a multifaceted assessment of a water utility's projected managerial and financial condition as it affects future economic viability, compliance with the NH Safe Drinking Water Act, and effective and efficient services to customers."

The purpose of this template is to assist the owners / governing bodies of a proposed community public water system prepare a business plan as required by the new rule. The completed business plan will help the system's owners better understand the short and long term managerial and financial responsibilities involved in operating and maintaining a well-run water system. The planning horizon for the business plan is five years and the water system owners should update the plan each year.

This business plan template categorizes information into the technical, managerial, and financial aspects of a water system. Part A concerns the technical aspects of the proposed water system, part B addresses the managerial issues, and Part C covers water system finances. The system owner needs to work closely with the water system's book keeper/accountant, certified operator, and/or engineering consultant to complete the business plan. Not all proposed water systems will be subject to every category in this business plan template. Please complete any section that is not applicable to your water system with "N/A".

The business plan approval process entails three steps consisting of the submission of three versions of the Business Plan, namely 1) Preliminary, 2) Revised and 3) Final. (see Env-Ws 371.05) Not all sections of this template, therefore, will need to completed for the first and second submissions. The business plan is part of the over-all new water system approval process, which is described in Env-Ws 371.04. The Preliminary Business Plan should be completed as described in Env-Ws 371.05 (c). Steps 8 through 13 inclusive in part B, therefore, can be left blank. Following source water development and approval, the revised Business Plan is to be submitted with updated treatment capital costs and operational costs, as per Env-Ws 371.05 (d). Lastly, the final Business Plan is to be submitted prior to construction of the pump station, distribution pipe or water storage components as per Env-Ws 371.05 (e). The main difference between the initial business plan and the revised and final business plans is that the latter two plans should incorporate successively more refined construction and operation cost data.

## PART A. TECHNICAL

1) Technical Description (ref. Env-Ws 371.10)
Use the space below to describe the technical components of the water system.
a) Water system start-up date or approximate age
b) Number of Service Connections.
c) Approximate Population Served.
d) System Treatment Classification (I, II, III or IV)
e) System Distribution Classification (I,II,III or IV)
f) Water Source (check all that apply)
<ul> <li>( ) Groundwater</li> <li>( ) Surface Water</li> <li>( ) Water purchased from wholesaler</li> <li>g) If the water source is from on-site groundwater, describe the following well characteristics for each well:</li> </ul>
Well Name: Well Name: Well Name:
a) diameter inches in. in. b) depth feet ft. ft. c) yield gpm gpm gpm d) age yrs yrs yrs e) location (For each well, note the distance and a compass bearing from a fixed location in the space below)
h) Land use types served by water system (check all that apply)
<ul> <li>( ) Residential</li> <li>( ) Commercial</li> <li>( ) Industrial</li> <li>( ) Other - please describe</li> </ul>

i) Average Daily der	nand	gals/day
j)Peak Daily Deman	1	gals/day
k)Treatment (check	all that apply)	
a. Disinfect	ion with chlorine	(
		·······(
c. Disinfec	ion with ultraviolet light	(
		ıl(
e. Softening	for hardness	(
f. Oxidatio	n / Filtration for iron / manga	nese removal(
h. Aeration	for radon removal	·······
i. Aeration	for VOC removal	(
		(
k. Activated	l alumina for arsenic / flourid	le(
		(
m. Surface v	ater treatment	(
n. None	• • • • • • • • • • • • • • • • • • • •	(
m) Hydro-pneumatic	Tanks - Number, Volume &	& Operating Pressure
n) Distribution Syst		
ii) Distribution syst	ZIII	
lease fill in the type, le	ngth and diameter of distribut	tion piping
<u>Type</u>	<u>Length</u>	<u>Diameter</u>


### PART B. MANAGEMENT: Section I

## Ownership and Authority (Env-Ws 371-21)

The purpose of Part B is to define the proposed type of ownership during the establishment of the water system, and the proposed plans for transfer (if any) of ownership of the system. Part B also requires documentation of the ownership's legal authority to maintain the water system and requiring that customers maintain connection to the system.

1.	Name of System:		
2.	Location: (Town)		
3.	Contact information	on of Initial Owner:	
	Name		
	Mailing Address:		
			E-mail
	Privat Coope Other  Please explain	c (municipal, village district, water te erative (explain)  n why a type of public ownership	is not planned for the water
		of ownership, along with informat	ase attach a description of the rationale tional documents (Env-Ws 371-21 (c) &
	Will the Own	nership change once the system is	operational?
	Yes	ultimate owner with contact in Please describe the trigger po	ve describing the process. Identify the nformation, as in 1 through 3 above. int of ownership change; i.e., system percent of development is sold, or (x)

5. Ass	suring Payment for V	Vater Service: (Env-W	s 371.22)	
	Describe procedure	es to be used to insure p	payment for water se	ervices.
		e certification from a Nand enforceable in Nev	-	rney that the method used
6. M	aintaining a Connect	ion to the Water System	m: (Env-Ws 371.23)	)
	system requiring th	enant for each property at the water service co stomer shall be liable t	nnection be maintain	ned for domestic
	Yes	No		
		ining and using the co		npshire attorney that the ntral system is legal and
7. (		cate number of Board g Body		
		cription of the type of one how selected, and replaced		
	Please provide the	following information	regarding members	of the Governing Body:
	Name/Title	Address	Telephone	Term (expires)

Please descri	be the Governin	ng Body meeting sch	nedule:	
Please descri	be how the Gov	verning Body is elec	ted or appointed	d
8. Legal Documents	:			
Please attach	a copy of the C	Governing Body's By	ylaws (Env-Ws	371.25 (a))
charges; disc sprinkler cha	connect or act	tivation charges; av and fees for lost bill	vailability char	wing items: water user rges; hydrant and fire low device permits and
Part B. MANAGE	MENT: Sectio	n II		
Organization, O	peration and	l Compliance		
including identifications system (employee of day functions, speci	ion of the certiful contract operation is to clean	fied operator, the relator), scheduling, detors, emergency platerly identify the income.	ationship betwee efinition of responding, and SD dividuals respo	een the operator and the ponsibilities for day-to- WA compliance. The onsible for the specific
9. Organizational Ch	nart: (Env-Ws	371.20 (6))		
Please attach of personnel)		ng the organizational	l structure of th	ne system (i.e., in terms
10. Operation:				
Grade of Sys	tem (Env-Ws 3	67)		
		Contificat On anaton	(a)	
N. //D*/1		Certified Operator(		
Name/Title	Address	Telephone #	Grade	Certification #
Please attach	copies of opera	ator's certificate(s)		

Are the operators employees of the public water system, or are they contract operators?

	Employee Contract	Name(s)Name(s)	
	Explain rationale fo	r choice (employee vs. contract) (Env-Ws 371-20 (b)(4))	
	-	to be under contract (non-employee), attach copy of the a ater system and the proposed contract operator.	– igreeme
1.	Operator Coverage		
	whether the operato Weekdays	rator coverage schedule (i.e., give name of operator, and r is on duty or on call):	_
	Sniits		
2.	Responsibilities		
	Identify the person i	responsible for the following functions:	
	Function	Name Telephone	<u>e</u>
	Routine System Ope	eration	
	Emergency Operation	ons (Incl. Planning)	
	Liaison with NHDE	S-WSEB	_
	Customer Communi	ications	_
	Media Contact		_
		nnel Matters	_
	Billing/Debt Collect		_
	Consumer Confiden	ce Report	_
	Sampling/Monitoring	ng/Record Keeping/SDWA-Compliance	
	Long-Term Capital	Planning	
	Maintaining Materia	al Inventory	_
	Legal Affairs		
	User Rate Setting		
	Please attach letters	of intent from specialized contractors indicating their	
		rest in repairing the water system for the following	
	specialties: (Env-W		

- (1) Electrical/mechanical repair, as required by Env-Ws 360.08; and
- (2) Repair of the distribution piping or other construction repair to the building

and storage facilities as required by Env-Ws 360.08.

13. Emergency Plan (Env-Ws 371.20(5))

Please attach a copy of the water system's Emergency Plan as specified in Env-Ws 360.14

## PART C. FINANCIAL

IAN		
Ini	tial Capital Costs (Env-Ws 371.31)	
		Projected
		Total Cost
1.	Construction Costs	
	Water Source Development	
	Hydrogeological Investigation	\$
	Source Construction	\$
	Water Treatment Equipment	\$
	Control Building	\$
	Water Storage Tankage	\$
	Water Distribution System	\$
	Customer Connection to System(per	unit)\$
2.	Engineering Costs	
	Design Engineering.	\$
	Field Engineering, including inspection	\$
3.	Legal Costs in Establishing Water System	\$
4.	Miscellaneous Costs (please list)	
		\$
		\$
	<b>Total Initial Capital Costs</b>	\$
5.	Schedule of Useful Life of Water System Componer	nts (Env-Ws 371-32).
	Please attach a tabular schedule of facil showing the average life expectancy an items costing over \$500. Include such and electrical equipment, water source, water storage facilities (atmospheric tar water distribution facilities.	d retail replacement price of categories as: mechanical water treatment equipment,
Projec	eted Operational Expenditures (Env-Ws 371.34)	
6.	Name and Location of Public Water System:	
	Town	

7. Initial Year of Bud	get Calculation _			
8. Consumer Price In	dex (C.P.I.) used	in projections:		
9. Operating Expenses	s Year 1	Year 3	Year 5	
Year <u>Power</u>	20	20	20	
Electrical Propane	\$ \$	\$ \$	\$ \$	
Subtotal	\$	\$	\$	
Water Treatment	*Include any incre	ase in costs due to reg	ılatory changes	
Repairs Chemicals Test equip	s \$	\$ \$ \$	\$ \$ \$	
Subtotal	\$	\$	\$	
Maintenance and	<u>Repairs</u>			
Distribution syste Repair	sm \$	\$	\$	
Water storage Repair	\$	\$	\$	
Mechanical, Elec Control Repair		\$	\$	
Flushing & Valve Exercise	\$	\$	\$	
Subtotal	\$	\$	\$	
Personnel and Ad	lministrative Cos	<u>sts</u>		
Emplo	oyee(s)\$	\$	\$	
Contra Opera		\$	\$	
Insura	nce \$	\$	\$	
Permi Licens		\$ 11	\$	

	Managem Contractu				
	Legal, Admin.	ŕ	<u> </u>	\$	
	Water Qu	ality			
	Complian Testing		\$	\$	
	Other			·	
	Costs	\$	\$	\$	
Subtotal		\$	<u> </u>	<u></u>	
	Please des	scribe othe	er costs:		
Debt Serv	<u>vice</u>				
		The water	er system's debt is	identified as:	
		\$	for	years at	%
	Payment	\$	\$	\$	
<u>Taxes</u>					
	Real Esta	te \$	\$	\$	
	Business Profits				
	Taxes	\$	\$	\$	
	Other	\$	\$	\$	
Subtotal		\$	\$	\$	
Addition	al Expenditu	ıres			
	_				
Capitai R	leserve Acco				
	Supply	\$	\$	<u> </u>	
	Treatmen	4 C	\$	\$	

		Storage	\$	\$	\$		
		Distributio	n \$	\$	\$		
		Other	\$	\$	\$		
	Sub Total	I	\$	\$	\$		
	Grand T	otal:	Operating	Expenses			
			Year 1	Year 3	Year	r 5	
			\$	\$	\$		
10.	Operating	g Revenue (V	Vater Rate) (	Env-Ws 371.3	4 (f)).		
	ca co in bi	lculate the pommercial, in creasing blo	rojected user adustrial, othe ck rate, decrea (monthly, qua	fees. Include to r, etc.), rate str asing block rat	ater rate conce he user categor cucture (flat rat e), whether me her projected f	ries (residenti e, block rate, eters are to be	used,
	Co By	umber of onnections y Category	Year 1	Yea	nr 3	Year 5	_
		esidential					
		ommercial					
	In	dustrial					
	O.	ther					

	Projected User Fees* by Category	Year I	Year 3	Year 5
	Residential	\$	\$	\$
	Commercial	\$	\$	\$
	Industrial	\$	\$	\$
	Other	\$	\$	\$
Revenu	ies:			
	Water sales	\$	\$	\$
	Connection Fees	\$	\$	\$
	Other Revenues**	\$	\$	\$
Grand Tota	al: O <sub>l</sub>	perating Rev	renue	
		Year 1	Year 3	Year 5
		\$	\$	\$
		leveloped for		ear user, using the rate chment to Part C, Section
11. Operation	ng Balance			
Total	Year 1		Year 3	Year 5
Operati Revenu			\$	\$
Total Operati Expend				

	Year 1	Year 3	Year 5
	\$	\$	\$
(Total Annual O	perating Revenue -	Total Annual Operating E	xpenditure) =
	Year 1	Year 3	Year 5
	\$	\$	\$
Operating Ratio	(Total Operating R	evenue / Total Operating I	Expenditure)
	Year 1	Year 3	Year 5
Please atta initial purc language c	haser of real estate ould be as follows: ted water use for th	of a rate notification docu to be served by the commu	ment, to be signed by each nity water system. Sample  gallons per day. Based on are:
Year 1	\$	per year	
Year 2	\$	per year	
Year 3	\$	per year	
Year 4	\$	per year	
Year 5	\$	per year	
	tomers are not bille	d individually, these costs	will be reflected in the

condominium association fee.

Use the results from the calculation of operating expenditures, Part C, Section 9 to project a water rate for an average user (i.e., a residential customer using 100,000 gallons per year) using the rate structure developed for the system (Refer to attachment to Part C, Section 10).

If the initial purchaser refuses to sign the rate notification document, the water system owner shall include the following statement in the deed:

"This property is served by a public water system. As a public water system it is subject to the USEPA and New Hampshire Safe Drinking Water Acts. Compliance with the Act can have significant expense. Revenue to these expenses is derived entirely form the users."