

APPLICATION FOR APPROVAL TO ESTABLISH, EXTEND, RENOVATE, OR ALTER A PUBLIC WATER SUPPLY—*Part 2—Proposed Treatment Train Form*

This application form details the information to be submitted by any person wishing to establish, extend, renovate or alter a public water supply. Approval for establishment and/or changes of a public water supply must be obtained in writing from the Regional Health Authority. This application form has been prepared in accordance with Section 5 of *The Health Hazard Regulations, 2002.*

This application form and additional documents must be completed and forwarded to the <u>Population Health Unit</u>, as noted above, **at least one month** prior to the planned construction/operation of a new or significantly altered public water supply. Water source and manufacturer's technical information on equipment design and operations should be attached to the application. Further information may be requested by the Regional Health Authority. <u>This application form focuses on the proposed treatment system to determine if potential</u> <u>areas of concern are addressed from PART 1</u>. <u>This form is PART 2 of 2</u>.

Please ensure that each section of the application is completed in a concise and clear manner. Fill in areas that apply only to your system.

Public Water System Approval of Application Process Overview

The approval process for public water systems is separated in two parts. <u>Both parts need to be approved prior to construction and operation</u>.

PART 1: Administrative and Source Assessment —> Identify any potential chemicals/pathogens of concern

PART 2: Proposed Treatment Train Assessment —> Determining if above issues in Part 1 are addressed

The proposed water system treatment train must be **designed** to:

- 1. Address any issues or areas of potential concern identified in the *Letter of Assessment* sent to you from the <u>Population Health Unit</u> office AND
- 2. Meet the water treatment objectives as directed and determined by your district public health inspector as noted below:

Unsecured Ground Water Source or Any Surface Water Source:	 4 log reduction of Virus 3 log reduction of <i>Cryptosporidium parvum cysts</i> 3 log reduction of <i>Giardia lamblia cysts</i> 2 forms of treatment (minimally) Less than 1 NTU of Turbidity 0 Coliforms for both Total and <i>E.coli</i>
Secured Ground Water Source:	4 log reduction of Virus Less than 1 NTU of Turbidity 0 Coliforms for both Total and <i>E.coli</i>

Section V— Source Assessment Results—as noted in Letter of Assessment

Surface water source \Box | Ground water source: \Box Secure \Box Unsecure

Chemicals of potential concern: _____

Pathogens of potential concern:

Section VI— Designer Contact Information			
1. Applicant Facility Name:			
Construction Application Details			
Name of Consultant / Engineer / Designer / Supplier			
Mailing Address/Postal Code			
Phone Number			
Estimated cost of project:			

3. Description of Works (Brief description of the works to be constructed altered or decommissioned) :							
□ New □ Existing □ Renovations □ Extension							
4. General and detailed p	lans of th	e proposed works:					
□ Are Enclosed With The	Applicati	ion	-	By A Professiona By A Professiona	-	dor	
□ Will Be Forwarded By (Date):		-	e of Completion			
Section VII— Water In	Section VII— Water Infrastructure Technical Data— <u>Check all that apply and fill in as much detail where applicable.</u>						
1. What water treatment	units are	proposed? (Attach technical d	ata sheets if	available)			
Pre-Treatment: Aeration Coagulation/ Flocculation Softening Algae Control Iron Removal Distillation Sedimentation		☐ High Rate Sand ☐ Cartridge ☐ Reverse Osmos ☐ Other: ☐ Diatoma	Filtration: □ Biological Filtration (SS) □ High Rate Sand		Disinfection: Sodium Hypochlorite Calcium Hypochlorite Chlorine Gas Chlorine dioxide Ozonation Ultraviolet Light Other:		
Back Flow Prevention Devices: Are they in place Yes- location(s)] No -			
	han Dua	First Location		Second Locati	on	Third Location	
Meter Location (Raw Wat filtration, distribution, etc	-						
Units (Imperial gallons/ Cu Meter/ Other)	ubic						
Pre-Treatment							
Pre-oxidation					□ Manufa	turer Specification Sheet Atta	ached
Description/Model							
Third Party Certification Standard	□ NSF_		_Other				
Softener					🗆 Manufa	turer Specification Sheet Atta	ached
Description/Model							
Third Party Certification Standard	□ NSF_	CSA	_□Other				
Other					□ Manufa	cturer Specification Sheet Atta	ached
Description/Model							
Third Party Certification Standard	□ NSF_	□CSA	Other				

Filtration

quirements

Cartrie	dge Filtration		Number:				🗆 Manufactur	er Sp	pecification Sheet Attached
Filter #	Description/Model		Filter Fabric		Max Flow		Pore Size (Nominal/ Absolute)		Third Party Certification Standard (i.e. NSF, CSA,etc)
Other	Filters & Methods		Number:				🗆 Manufactur	er Sp	pecification Sheet Attached
Туре с	of Filter (Check One)	🗆 Pr	essure	rafilt	ration 🗆 Nan	ofiltration	□ Microfiltration □ Grit	Re	verse Osmosis
Filtrat One)	ion Method (Check	□Hi	gh Rate Sand □Slow Sa	and	Diatomaced	ous Earth 🗌]Multi-media □Membra	ne	
Descri	ption &Method	Filte	r Media	Sur	face Area (m²	or ft²)	Filtration Rate (m/h or gpm/ft ²)		Third Party Certification Standard (i.e. NSF, CSA)
Disinf	ection								
Disinf	ection Chemical/Met	hod					🗆 Manufactur	er Sp	ecification Sheet Attached
□ Soc	lium Hypochlorite 🛛	Calciu	um Hypochlorite 🛛 Chl	orin	e Gas 🗆 Chlo	orine dioxid	e 🗆 Ozonation 🗆 Othe	r:	
Third	Party Certification Sta	ndaro	k		NSF 60 □CSA	<u>.</u>	Other		
	cal/Method (state al vs. Chlorinator)		id and commercial centration strength	prio dist	infection Cont or to entering ribution (ozo uded)		Proposed Dosage of Chemical		Dosing Equipment Model Number
Ultrav	iolet Light						🗆 Manufactur	er Sp	ecification Sheet Attached
Descri	ption/Model								
Third I Standa	,		= 55A 🗆 CSA ner			Class A	A		
	um Dosage (mJ/ or Maximum flow								
Max c min)	ertified flow (L/								
Patho Claims									
Opera	tor is required to subi	nit U	V water quality results t	o sh	ow that wate	r entering t	the UV light equipment n	neets	the manufacturer's re-

Other

Other Treatment				\Box Manufacturer Specification Sheet Attached
Description/Model				
Third Party Certification Standard	□ NSF	CSA	□Other	

Disposal and Handling of Wastewater from treatment system

Possible waste streams include but are not limited to waste, filter backwash, settling tank sludge, etc.

Type of waste stream	Method of disposal

Section VIII— Water Piping and Storage System Technical Data

1. Is there a distribution system present/proposed?
Yes____(# of service connections)
No

2. Where one of the items listed below is present, check the box and provide the specific information

Raw Water Storage					
Location	Approximate useable capacity (L)	How often is it filled and when			

Are the raw water reservoirs aerated?
Yes (method of aeration)
No

Method of algae control if any _____

Raw, Treated, and Distribution	□Man	ufacturer Specification Sheet Attached	
Pipe diameter (in or mm)	Approximate length (ft or m)	Pipe Material	Elevated, Surface or Underground

	Pressure Tank							
Mc	odel		Capacity (L/s)			Manufacture	er Data Sheet A	ttached
	Treated Water Storage Reservoir							
	Elevated, Surface,	Construction		Baffled Tank or	Tanka in Ca			

#	Elevated, Surface, Underground, Pressurized or Gravity	Construction material	Baffled Tank or Non-baffled Tank?	Tanks in Series or Parallel	Volume (L)	Location

Raw, Treated, and Emergency Water pumping			
Model	Power Rating (kw)	Capacity (L/s)	Manufacturer Data Sheet Attached

Please describe any location where a sewer line and water line are within 10 meters of each other: ____

TREATMENT TRAIN DIAGRAM— CAttached

Please attach copies of professional drawings by a Professional Engineer/Reputable Water Vendor. Attach additional sheets if extra space is required. Please indicate the following items (if applicable) on the treatment train diagram of the proposed and existing system below: all equipment and treatment devices, detailed equipment plan indicating all types of treatment devices and operation equipment, including their intended uses, water distribution lines, and hydrants/flushouts, and their connections to all water users. Be sure to indicate the direction path of flow through the system.

CLEANING AND MAINTENANCE SCHEDULE

Please attach the cleaning and maintenance schedule of for the all equipment and chemicals.

Signature

Printed Name of Person Signing	Title
Address	Postal Code
Telephone Number	Fax Number
Date of Application	Signature

***Please do not <u>INSTALL, CHANGE OR ALTER</u> any part of a Public Water System until the source assessment and treatment train has been submitted for review AND has received approval from the local health authority as per Section 5(1) of *The Health Hazard Regulations*, :

"No person shall establish, extend, renovate, or alter a public water supply unless the owner or operator has obtained written approval to do so from the local authority"***

A Public Health Inspector will respond to the applicant within 20 business days upon receiving this application.

The completed application and any questions about this application form or part of approval process, can be submitted to your local health inspector by:

Phone: 306-425-8512	In Person: 1016 La Ronge Avenue, La Ronge, SK SOJ 1LO
Email: healthinspectors@pophealthnorthsask.ca	Mail: PO Box 1920 La Ronge, SK, SOJ 1LO