### **GENERAL OVERVIEW:**

Community Name:		Date visited:	
Have there been any recent weath	er events (high precipitation, ov	verland flooding, snow melt):	
Is water quality (clarity, colour, o	dour) affected by weather?		
Has there been an increase in turb	oidity or colour in the water rece	ently? Y/N	
Have there been complaints of wa	iter taste or odours from resider	nts? Y/N	
Service/Existing Population:		_	
No. of homes on public WW colle	ection system:	No. of homes on private septic:	
Number of homes on private well	s:	No. of industrial users:	
Treatment and Disinfection Bui	ilding		
Year of Construction:	Treatme	ent Processes:	
Type of building construction (me	etal, wood, brick):		
Condition of treatment building:		_	
Design capacity:		Typical Flows:	
Does system meet peak demand?		unsanitary conditions present? Y / N	
Describe any obvious maintenanc	e requirements:		
Describe any upgrades completed	in last 5 years:		
Operations			
Number of water system operator	s?	Are operators certified? Y/N	
Circle records that are available:	a) Flows	b) Free and Total chlorine residual	
	c) Chemical consumption	d) Treatment/disinfection system maintenance	
	e) Source water monitoring g) Other(s):	f) Distribution system maintenance	
Circle any of the following that ar	re available on site:		
a) Standard Operating Procedures	b) Contingency Plans	c) Emergency Response Plans	
d) Maintenance Assurance Manua	e) Source Water/Well He	ead Protection Plan	
T 1-4 1-1 11	completing the above form:		
List any risks identified through c			

### **SOURCE WATER:**

Surface Water Supply (if applicable)				
Name of water supply:				
Have there been reports of beavers or muskrats in the wa	ater suppl	ly? Y/N		
Other wildlife or birds?	Y/N			
Any on-site septic systems near the water source or intak	Y/N			
Any new excavations or developments in the water supp	Y/N			
Any farms or livestock in or near the water supply	Y/N			
Any recent spills (septic or other ) in the water supply ar	ea?	Y/N		
Any algal blooms been observed?	Y/N			
Has the water level in the source dropped in recent years	Y/N			
Have there been any water shortages?		Y/N		
Groundwater Supply (if applicable)				
Has a hydrogeological assessment been done?	Y/N	Date of Assessment:		
Has a GUDI assessment been performed for the well?	Y/N	Date of Assessment:		
Is the sanitary seal intact?	Y/N			
Are vents protected from debris and rainwater?	Y/N			
Does casing extend 600 mm above ground?	Y/N			
Is the wellhead secured to prevent unauthorized access?	Y/N			
Are there any farms or livestock near by the well?	Y/N			
Have there been any water shortages?	Y/N			
What is the distance to nearest known septic field?				
List any risks identified through completing the above form:				
Source Water Risks Identified:				

### **DISINFECTION:**

Type of disinfection system(s):		Is o	lisinfection system operational?	Y / N
Are all chemicals ANSI/NSF 60 Certified? Y	7 / N	Is o	losing system flow paced?	Y / N
Age of disinfectant chemical:	Conc	centration	of feed solution:	
For the following equipment, select if they are	functional, and	d if regula	arly calibrated	
<u>Equipment</u>	Functional	<u>1?</u>	Calibrated Regularly?	
a) Pocket Colorimeter (chlorine analyzer)	Y / N / NA	A	Y/N/NA	
b) Chlorine Dosing Pump(s)	Y/N/NA	A	Y/N/NA	
c) Flow Meter	Y/N/NA	A	Y/N/NA	
d) Online Chlorine Analyzer	Y / N / NA	A	Y/N/NA	
e) Other:	Y / N / NA	A	Y/N/NA	
f) Other:	Y / N / NA	A	Y/N/NA	
Calculating CT - Refer to Water Resources	Management 1	Division		
Peak flowrate through the system (in m <sup>3</sup> /min)			m <sup>3</sup> /min	
Minimum chlorine residual at end of contact chamber/1st custome		tomer:	mg/L	
Does the system have a contact pipe or tank?			Y/N	
If system has contact pipe/tank, select the confi	guration and a	ssociated	baffle factor:	
<u>Configuration</u>			baffle factor (Fsc)	
a) single or multiple unbaffled inlets and	outlets		0.3	
b) baffled inlet or outlet			0.5	
c) perforated inlet baffle, with outlet wei	r		0.7	
d) contact pipe (no baffles)			1	
What CT is being achieved?n	ng · min/L	Are CT	requirements (> 6 mg min/L) met	? Y/N
Chlorine Residual				
Range of Cl2 residual at disinfection building (mg/L): Free:		<u> </u>	Total:	
Range of Cl2 residual within distribution system (mg/L) Free:				
Range of Cl2 residual at dead ends (mg/L):	Free:	:	Total:	
List any risks identified through completing the	above form:			
Disinfection Risks Identified:				

### **OTHER TREATMENT EQUIPMENT (if applicable):**

General Treatment	
Has there been an increase in turbidity or colour in the water recently?	Y/N
Have there been complaints of water taste or odours from residents?	Y/N
Type of treatment system:	
List chemicals used at the facility:	
Are all chemicals ANSI/NSF 60 Certified?	Y/N
Are chemicals stored properly? (e.g. secondary containment, compatibility)	Y/N
Have any chemicals surpassed their date of expiry?	
MECHANICAL AND ELECTRICAL EQUIPMENT	
Number of pumps:	
Type of pumps:	
Size of pumps:	
Condition of pumps:	
Condition: Other comments:  Instrumentation (pressure gauges, flow meters, etc.): Condition: Other comments:	
The same states identified the same lating the above forms	
List any risks identified through completing the above form:  Other Treatment Equipment Risks Identified:	
Mechanical and Electrical Equipment Risks Identified:	

### **DISTRIBUTION SYSTEM:**

Typical pressures:  Maximum pressure (pressures at low lying areas):  Minimum pressure (pressures at high elevations):  Have there been recent events causing pressure drop:  b) flushing:  c) new high demand users:  y/N  d) fire fighting:  y/N  e) other:  Is a detectable free chlorine residual consistently maintained in distribution system?  y/N  Have there been recent significant changes in water demand?  Cross Connection Control Program	
Are drawings available? Y/N Are there <b>functioning</b> hydrants: Y/N Is flushing performed: Y/N Frequency of flushing:  Are there records of distribution system pressures? Y/N  Typical pressures:  Maximum pressure (pressures at low lying areas):  Minimum pressure (pressures at high elevations):  Have there been recent events causing pressure drop: a) breaks: Y/N b) flushing: Y/N c) new high demand users: Y/N d) fire fighting: Y/N e) other:  Is a detectable free chlorine residual consistently maintained in distribution system? Y/N Have there been recent significant changes in water demand? Y/N  Cross Connection Control Program	
Is flushing performed: Y/N Frequency of flushing:  Are there records of distribution system pressures? Y/N  Typical pressures:  Maximum pressure (pressures at low lying areas):  Minimum pressure (pressures at high elevations):  Have there been recent events causing pressure drop:  a) breaks: Y/N  b) flushing: Y/N  c) new high demand users: Y/N  d) fire fighting: Y/N  e) other:  Is a detectable free chlorine residual consistently maintained in distribution system? Y/N  Have there been recent significant changes in water demand? Y/N  Cross Connection Control Program	
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d) fire fighting: $Y/N$ e) other:  Is a detectable free chlorine residual consistently maintained in distribution system? $Y/N$ Have there been recent significant changes in water demand? $Y/N$ Cross Connection Control Program	ſ
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Is a detectable free chlorine residual consistently maintained in distribution system? Y / N  Have there been recent significant changes in water demand? Y / N  Cross Connection Control Program	ſ
· ·	
a) Public water supply users that also have a private well:  Yes, with BFPs / Yes,  b) Industrial facilities (such as a fish plant) on public water supply Yes, with BFPs / Yes,  Do any customers have backflow preventers?  Y / N  Are backflow preventers inspected annually by specialist?  Y / N  Are there any abandoned wells or surface water sources?  Y / N	s, without BFPs / No
Are abandoned sources decommissioned properly?  Y/N	
Are availabled sources decommissioned property:	
List any risks identified through completing the above form:	
Distribution Risks Identified:	

### TREATED WATER STORAGE:

Type of storage tank:	a) Below-ground Reservoir:	Y/N
	b) Standpipe:	Y/N
	c) Elevated Tank:	Y/N
Capacity:	igal, USgal, m³, L	
Construction Material	:	
Year Constructed:		
Condition:		
Does storage include p	pest protection (screens on vents/overflows)?	Y/N
Do openings, hatches,	and ports have gaskets, as required?	Y/N
Is the facility secure from unauthorized access?		Y/N
Are security measures	in place?	Y/N
Is a maintenance plan	in place?	Y/N
Has prescribed mainte	nance and inspection been performed?	Y/N
Are there signs of cracks or rust?		Y/N
What maintenance has	s been performed in past 12 months?	
List any risks identifie	ed through completing the above form:	_
Storage Risks Identif	fied:	

### **SAMPLE SITES:**

Are sample taps clean, free of rust and have suitable flow?  Are there nearby sources of contamination of the sampling tap?  Is the tap regularly used?  Are there private treatment systems upstream of any sample taps?  Have distribution system repairs been made in area of any sample sites?  Have there been low pressure events since last testing?	Y/N Y/N Y/N Y/N Y/N	
Is the tap regularly used?  Are there private treatment systems upstream of any sample taps?  Have distribution system repairs been made in area of any sample sites?	Y/N Y/N	
Are there private treatment systems upstream of any sample taps?  Have distribution system repairs been made in area of any sample sites?	Y/N	
Have distribution system repairs been made in area of any sample sites?		
	Y / N	
Have there been low pressure events since last testing?	- / - 1	
-	Y/N	
BACTERIOLOGICAL SAMPLING PROCEDURE		
Does sampling protocol follow Health and Community Services procedure?	Y / N	
Were aerators, swivels, and/or remote hoses removed prior to sampling?	Y / N	
Were sterile bottles used and adequate storage available at the prescribed temperatures?	Y / N	
Were clean gloves used to handle sample bottles and collect samples?	Y / N	
Was tap flushed for five minutes before collecting sample?	Y / N	
OTHER:		
Has Department of Health and Community Services		
indicated that there has been a waterborne illness outbreak?	Y/N	
Has the facility been subject to other BWAs in past 12 months?	Y / N	
Were the most recent sample results satisfactory?	Y / N	
Have additional water sources been added recently?	Y / N	
Is there evidence of forced access to: Disinfection building	Y / N	
Pump Station	Y / N	
Storage Tanks	Y / N	
Other:	Y / N	
Are there any known leaks in the municipal sewage system?	Y / N	
Are any components of the water supply system near on-site septic systems?	Y/N	
This was a single interest of the same and the same for any		
List any risks identified through completing the above form:		