

SCHEDULE A**SAMPLING REQUIREMENTS****Non-GUDI and Medium Risk GUDI Wells, with Natural Filtration, Greensand Filtration, Disinfection and Water Distribution System**

PARAMETER	MINIMUM FREQUENCY	LOCATION
parameters as per the source water protection monitoring plan	In accordance with Step 5 of the Source Water Protection Plan and approved annual monitoring program	In accordance with Step 5 of the Source Water Protection Plan and approved annual monitoring program
water volume	continuous*	each individual well and combined flow; as per the Water Withdrawal Approval
temperature	daily grab or continuous*	CT control point
pH	daily grab or continuous*	water entering the distribution system; and as required by process monitoring if pH control is practised

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PARAMETER	MINIMUM FREQUENCY	LOCATION
turbidity	<u>For GUDI Wells</u> continuous*	<u>For GUDI Wells</u> raw water at each individual GUDI well before pre-treatment and/or disinfection; and as requested by NSE.
	<u>For Non-GUDI Wells</u> Daily Grab or continuous*	<u>For Non-GUDI Wells</u> from individual wells or the combined flow entering the distribution system; and as requested by NSE
turbidity within distribution system	weekly grab	distribution system sample points
backwash waste water	in accordance with the approved annual monitoring program to comply with discharge criteria	in accordance with the approved annual monitoring program to comply with discharge criteria
chlorine residual	continuous*	all locations where water enters the distribution system from individual wells or combined wells; storage tank outlet
	twice weekly grab, spread evenly throughout the week	distribution system sample points

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total coliform and E.coli (present/absent) **	twice weekly (spread evenly throughout the week)	all locations where water enters the distribution system from individual wells or combined wells; and distribution system sample points
parameters as per the corrosion control program	quarterly grab sample	select distribution sample points
lead	annual grab sample - during warmest month	select distribution system sample point(s)
total trihalomethanes	quarterly grab sample	select water distribution system sample point(s) representative of the longest retention time - generally furthest from the source
haloacetic acids	quarterly grab sample	select distribution system sample point(s)
parameters as per the process monitoring program	in accordance with the approved annual monitoring program	in accordance with the approved annual monitoring program
	UV monitoring	see 7(b), UV light requirements

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parameters as per the Guidelines for Monitoring Public Drinking Water Supplies (GMPDWS)	annually for GUDI wells; every two years for non-GUDI wells (Note - fluoride is a required parameter regardless of whether fluoridation is occurring or not because natural fluoride may be present)	raw water from each individual well; and treated water entering the distribution system
MPA testing	every 2 years, in spring following a rainfall	raw water from each individual GUDI well; in accordance with the Protocol for Determining Groundwater Under the Direct Influence of Surface Water.
unless specified otherwise in the approved monitoring program, all health-related parameters in the Guidelines for Canadian Drinking Water Quality, latest edition, having maximum acceptable concentrations (MACs)	every 5 years - timing for individual parameters may fluctuate (e.g. pesticides during application periods, etc.) (Note - algal toxins does not apply to groundwater supplies.)	raw water from each individual well; and treated water entering the distribution system except bacteria, THMs, HAAs, and lead which are to be taken in the distribution system
Viruses	as requested by NSE	raw water from each individual well; and water distribution system

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<i>Giardia & Cryptosporidium</i>	as requested by NSE	raw water from each individual well; and water distribution system

- * Continuous monitoring - readings shall be taken a minimum of once every five minutes. Any report submitted to NSE shall include the maximum value for turbidity and the minimum value for residual chlorine recorded on the continuous monitoring equipment.
- ** The presence of coliform will require an immediate notification to NSE and resampling of the water.