

## Prinking Water Quality and Compliance For The Town Of Langham 20\_16\_ Annual Notice to Consumers

Introduction											
The Water Security Agency (WSA) requires that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the waterworks in submitting samples as required by a Permit to Operate a waterworks. The following is a summary of the Town of Langham water quality and sample submission compliance record for the year 2015 time period. This report was complete on											
Water Quality Sta											
Bacteriological Quality Parameter/Location Limit			Regular Samples Required		Regular Samples Submitted		# of Positive Regular Submitted (%)				
Total Coliform an	d	0 Organi	sms/100	mL	52		57		ı		
Background Bacte	eria	Less that	n 200/10	0 mL	52		51		0	0	
<u>Water Disinfection –</u> <u>Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples</u>											
Parameter	Minimum Limit		Total Cl Residua	nlorine al Range	Free Chlor Residual R		# Tests Required	# Test Subm	mali marina di m	#Adequa Chlorine	
Chlorine	0.1 mg/l	free OR									-/
Residual	0.5 mg/l	L total	0.43	- <i>4.32</i>	0.26-	4.06	_52_		<i>57</i>	100	%
<u>Water Disinfection – Free Chlorine Residual for Water Entering Distribution System for Waterworks Records – From Water Treatment Plant Records</u>											
					Test Level		# Tests		# Tests No	t Meeting	
Parameter	arameter Limit (mg/L)		Range		Performed		Requirements				
Free Chlorine Res	sidual		at least	0.1	0.91-9	1.30	345			0	
A minimum of 0.1 milligrams per litre (mg/L) free chlorine residual is required for water entering the distribution system. Tests are normally performed on a daily basis by the waterworks operator and are to be recorded in operation records. This data includes the number of free chlorine residual tests performed, the overall range of free chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirements of 0.1 mg/L free chlorine residual.											
Turbidity - From Water Treatment Plant Records											
	Limit	Test Level	ĺ		lot Meeting	Maxim	um ty (NTU)		# Tests Required		# Tests Performed
Parameter	(NTU) 1.00	Range	-0.13	Requiren			2.13		365		365
Turbidity			0.12								7
<u>Chemical – Heal</u>											
All Waterworks s category once ex chromium, fluori	very 2 ye	ars. The	Chemical	Health (	category in	to subr Icludes	nit water s analysis for	ample: r arsen	for WSA ic, barium	's Chemi , boron,	cal Health cadmium,

The last sample for Chemical Health analysis was submitted on <u>FeB 4/2015</u> indicated that the provincial drinking water quality standards were not exceeded.

Sample results

Parameter	Limit MAC (mg/L)	Limit IMAC (mg/L)	Sample Result(s)	#Samples Exceeding Limit		
Arsenic	0.010		0.001	0	* Results expressed	
Barium	1.0		0,0023	0	as average values	
Boron		5.0	0.12	0	for communities or	
Cadmium	0.005		0.00001	0	waterworks that	
Chromium	0.05		0.0005	0	fluoridate drinking	
Fluoride (avg.*)	1.5	<b>∀</b> €	0.01	0	water supplies or	
Lead	0.01		0.0001	0	those with elevated	
Nitrate (avg.*)	45.0		0.04	0	concentrations of	
Selenium	0.01		0.0001	0	fluoride or nitrates	
Uranium	0.02		0.007	0		
<u>Chemical – Trihalomethanes (THMs)</u>						
Parameter Trihalomethanes	THMs Limit (mg/L) 0.1	Sample Result (average)	# Samp Require 4 (1 eve		#Samples Submitted	

Note: Only water supplies derived from surface water or groundwater under the influence of surgace water are required to monitor for THMs. Waterworks using groundwater sources beyond the influence of surface water do not need to report THMs since sampling/analysis will not likely have been performed.

## **General Chemical**

Comercial officiality				
	Aesthetic	Sampling Results	# Samples	# Samples
Parameter	Objectives * (mg/L)	(average)	Required	Submitted
Alkalinity	500	105	1/2 YRS	1/2 YRS
Bicarbonate	No Objective	128		
Calcium	No Objective	31		
Carbonate	No Objective	41		
Chloride	250	9		
Conductivity	No Objective	340		
Hardness	800	/3/		
Magnesium	200	13	×	
pН	No Objective	7.50		
Sodium	300	16		
Sulphate	500	60		
Total dissolved				
Solids	1500	214		
			-	

All waterworks serving less than 5000 persons are required to submit water samples for WSA's General Chemical category once every two years if a ground water source and once per three months every second year if a surface water or blended surface/groundwater source. The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO<sub>3</sub>), magnesium, sodium, sulphate and total dissolved solids.

The last sample for General Chemical analysis was required on	2015	and submitted on
FEB 4 / 2015		

\*Objectives apply to certain characteristics of substances found in water for human consumptive or hygienic use. The presence of these substances will affect the acceptance of water by consumers and/or interfere with the practice of supplying good quality water. Compliance with drinking water aesthetic objectives is not mandatory as these objectives are in the range where they do not constitute a health hazard. The aesthetic objectives for several parameters (including hardness as CaCO<sub>3</sub>, magnesium, sodium and total dissolved solids) consider regional differences in drinking water sources and quality.

More information on water quality and sample submission performance may be obtained from:

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