

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER

2022 ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: 7670065 NAME: Windsor Borough

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

WATER SYSTEM INFORMATION:

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact <u>Windsor Borough</u> at 717 244-6615. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at <u>2 East Main St</u>, <u>Windsor PA 17366 on the 3rd Monday of each month (6:00 pm)</u>.

SOURCE(S) OF WATER:

Our water source(s) is/are: (Name-Type-Location)

Cabin Creek 001 Surface Windsor Township

Beaver Creek 002 Surface Lower Windsor Township

Susquehanna 003 Surface Chanceford Township

Red Lion Water Authority

A Source Water Assessment of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our source(s) of is/are potentially most susceptible to [insert potential Sources of Contamination listed in your Source Water Assessment Summary]. Overall, our source(s) has/have [little, moderate, high] risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page: www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045. Complete reports were distributed to municipalities, water supplier, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Harrisburg

Regional Office, Records Management Unit at (717) 705-4708.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the *Safe Drinking Water Hotline* (800-426-4791).

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, <u>2019</u>. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DEFINITIONS:

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Mrem/year = millirems per year (a measure of radiation absorbed by the body)

pCi/L = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter (μ g/L)

ppm = parts per million, or milligrams per liter
(mg/L)

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

DETECTED SAMPLE RESULTS:

Chemical Contar	minants							
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
TTHM Windsor Boro	80	N/A	29.8	0.1-31.4	ppb	11/8/22	N	By-product of drinking water chlorination
Trihalomethanes Red Lion Water Auth	80	N/A	35.20	15.4-76.2	ppb	2022	N	By-product of drinking water chlorination
HAA5 Windsor Boro	60	N/A	00.1	0-21.0	ppb	8/9/22	N	By-product of drinking water disinfection
Haloacetic Acid Red Lion Water Auth	60	N/A	21.7	12.9-32.3	ppb	2022	N	By-product of drinking water disinfection
Fluoride Red Lion Water Auth	2	2	0.63	N/A	ppm	2022	N	Erosion of natural deposits; Water additive which promotes strong teeth
Nitrate Red Lion Water Auth	10	10	4.72	3.71-5.36	ppm	2022	N	Runoff from fertilizer use; Leaching from septic tanks; Sewage; Erosion of Natural deposits
Barium Red Lion Water Auth	2	2	0.29	N/A	ppm	2022	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chlorine (Distribution)	MRDL= 4.0 mg/L	4.0	1.78	1.13-1.78	mg/L	2022	N	Water additive used to control microbes

^{*}EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine Windsor Boro	0.20	1.03	1.024-1.48	ppm	8/8/22	N	Water additive used to control microbes.
Chlorine Red Lion Water Auth	0.20	1.18	1.18-2.20	ppm	12/3/2022	Z	Water additive used to control microbes

Lead and Cop	per						
Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead Windsor Boro 2022	15	0	0.00	ppb	0	N	Corrosion of household plumbing.
Lead Red Lion Water Auth 2022	15	0	0.00	ppb	0	N	Corrosion of household plumbing
Copper Windsor Boro 2022	1.3	1.3	0.00	ppm	0 out of 10	N	Corrosion of household plumbing.
Copper Red Lion Water Auth 2022	1.3	1.3	0.047	ppm	0	N	Corrosion of household plumbing

Microbial (related to Assessments/Corrective Actions regarding TC positive results)						
Contaminants	тт	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination	
Total Coliform Bacteria	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement		See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Naturally present in the environment.	

Turbidity						
Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Y/N	Source of Contamination
Turbidity Red Lion	TT=1 NTU for a single measurement	0	0.04	12/17/22	N	Soil runoff
Water Auth	TT= at least 95% of monthly samples<0.3		100%		N	

Total Organic Carbon (TOC)						
	Range of %	Dange of nevert	Number of	Violetien	Sauraca of	
Contaminant	Removal Required	Range of percent removal achieved	quarters out of compliance	Violation Y/N	Sources of Contamination	
TOC	N/A	3.68-52.38%	0	N	Naturally present in	
Red Lion Water Auth					the environment	

ETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:
THER VIOLATIONS:

EDUCATIONAL INFORMATION:

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of
 industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff,
 and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Information about Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Red

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Red Lion Municipal Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

OTHER INFORMATION:

Nitrate: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age.
High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short
periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice
from your health care provider.