2018 Water Quality Report Ligonier Water Works

This letter explains the quality of drinking water provided by Ligonier Water Works. Included is a listing of results from water quality testing, an explanation of our water sources, and tips on how to interpret the data. We are happy to share our results with you. Please read them carefully.

We are proud to report that the water provided by Ligonier Water Works meets or exceeds established water quality standards. The water source for Ligonier Water Works is supplied by groundwater pumped from two wells that are 200 feet deep located at approximately 1mile north of the city limits.

We continue to update the controls at our water plant to ensure the quality of water being distributed to you. Over the years the Ligonier Water Works has successfully completed the planning and implementation stages of our Well Head Protection Program. Signs indicate the exact location of our area of protection.

Important Health information
Drinking water, excluding 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 (EPA) Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled) 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 can pick up substances resulting from the presence of animals or 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 operation, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, 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 storm water 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 storm water 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 insure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in the water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide same protection for public health. Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as persons with cancer undergoing chemo-therapy, 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 and CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA Safe Drinking Water Hotline (800-426-4791).

How to Read the Water Quality Table
The results of the tests performed in 2018 or the most recent, testing available are presented in the table. Terms used in the water quality table and in other parts of this report are defined here.

- Maximum Contaminants Level or MCL: The highest level of contaminants that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal: The level of contaminants in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
- Detected Level: The highest level detected of a contaminant for comparison against the acceptance levels for each parameter.
- Action Level: The concentration of a contaminant which, if exceeded < triggers treatment or other requirements which a water system must follow.
- Range: The lowest to the highest values for all samples tested for each contaminant. If only one sample is tested, or no range is required for this report, then no range is listed for that contaminant in the table.

We encourage public interest and participation on our community's decisions affecting drinking water. Regular Board of Public Works and Safety (BOW) meetings are held on the second and fourth Wednesday of each month at 301 S. Cavin Street at 10:00 am. The public is welcome to attend.

This report may also be viewed on the City’s website: www.ligoner-in.org
The Ligonier Water Works’ phone is 260-894-4241 · PWSID # 52570 I0

Water Testing For Ligonier Water Works as of		05/01/2017		
Test	Test Date	Detection Level	MCL	Result mg/L
Nitrate	06/06/18	1.0	10.0	BDL
Regulated Volatile Compounds				
Test	Test Date	Detection Level	MCL	Result mg/L
Benzene	5/21/18	0.5	5	BDL
Carbon Tetrachioride	5/21/18	0.5	5	BDL
Chlorobenzene	5/21/18	0.5	100	BDL
1,2-Dichlorobenzene	5/21/18	0.5	600	BDL
1,4-Dichlorobenzene	5/21/18	0.5	75	BDL
1,2-Dichloroethane	5/21/18	0.5	5	BDL
1,1-Dichloroethylene	5/21/18	0.5	7	BDL
1,2-Dichloroethylene, cis	5/21/18	0.1	70	BDL
1,2-Dichloroethylene, trans	5/21/18	0.5	100	BDL
Dichloromethane	5/21/18	0.5	5	BDL
1,2-Dichloropropane	5/21/18	0.5	5	BDL
Ethyl benzene	5/21/18	0.5	700	BDL
Styrene	5/21/18	0.5	100	BDL
Tetrachloroethylene	5/21/18	0.5	5	BDL
Toluene	5/21/18	0.5	1000	BDL
1,2,4-Trichlorobenzene	5/21/18	0.5	70	BDL
1,1,1-Trichloroethane	5/21/18	0.5	200	BDL
1,1,2-richloroethana	5/21/18	0.5	5	BDL
Trichloroethylene	5/21/18	0.5	5	BDL
Vinyl Chloride	5/21/18	0.5	2	BDL
Total Xylenes	5/21/18	0.5	10000	BDL
Regulated Inorganic Chemicals				
Test	Test Date	Detection Level	MCL	Result mg/L
Antimony	5/16/18	0.0010	0.006	BDL
Arsenic	5/14/18	.0010	0.010	0.0022
Barium	5/23/18	.01	2.0	0.14
Beryllium	5/21/18	0.001	0.004	BDL
Cadmium	5/17/18	0.001	0.005	BDL
Chromium	5/17/18	0.005	0.1	BDL
Cyanide (Free)	6/5/18	0.01	0.2	BDL
Flouride (Adjusted)	10/12/12	0.05	2.0	0.20
Fluoride (Natural)	6/6/18	0.05	4.0	0.32
Mercury	5/22/18	0.0002	0.002	BDL
Nickel	5/21/18	0.01	0.1	0.01
Selenium	5/21/15	0.001	0.05	BDL
Thallium	4/24/15	0.0010	0.002	BDL
Sodium	5/11/18	1.0	No MCL	4.2

Synthetic Organic Compounds				
Test	Test Date	Detection Level	MCL	Result mg/L
Alachlor (Lasso)	05/15/19	0.2	2	BDL
Atrazine	05/15/19	0.5	3	BDL
Benzoapyrene	05/15/19	0.1	0.2	BDL
Carbofuran	05/21/19	0.9	40	BDL
Chlordane (Alpha &Gamma)	05/15/19	0.2	2.0	BDL
2,4-D	05/29/19	1	70	BDL
Dalapon	05/29/19	5	200	BDL
DBCP	05/07/19	0.02	0.2	BDL
Dinoseb	05/29/19	1	7	BDL
Diquat	05/29/19	2	20	BDL
Di (2-ethylhexyl) adipate	05/15/19	0.6	400	BDL
Di (2-ethylhexyl) phthalate	05/15/19	0.6	6	BDL
Endothall	05/08/19	9	100	BDL
Endrin	05/15/19	0.1	0.2	BDL
Ethylene Dibromide (EDB)	05/07/19	10	50	BDL
Glyphosate (Round-Up)	06/03/19	30	700	BDL
Heptachlor	05/15/19	0.2	0.4	BDL
Heptachlor Epoxide	05/15/19	0.1	0.2	BDL
Hexaclorobenzene	05/15/19	0.1	1	BDL
Hexachlorocyclopentadiene	05/15/19	0.5	50	BDL
Lindane	05/15/19	0.1	0.2	BDL
Methoxychlor	05/15/19	0.1	40	BDL
Oxamyl (Vydate)	05/21/19	2	200	BDL
Pentachlorophenol	05/29/19	0.4	1	BDL
Picloram (Tordon)	05/29/19	1	500	BDL
Simazine	05/15/19	0.35	4	BDL
2,4,5-TP (Silvex)	05/29/19	1	50	BDL
Toxaphene	05/08/19	1	3	BDL
TTHM				
Test	Test Date	Detection Level	MCL	Result mg/L
TTHM	08/29/18	0.5		18.5
HAA5	0/29/18	1.0		3.2
TTHM	08/29/18	0.5		BDL
HAA5	7/26/16	1.0		BDL

Inorganic Contaminants	Date Tested	Units	MCLG	MCL	Range	Major Sources
Fluoride	2008	ppm	4	4	.45-1.4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	2008	ppm	10	10	1.5	Runoff from fertilizer use; Leaching from septic tanks;sewage; Erosion of natural deposits.
Gross Bata	6/6/2003	pci/l	5	5	2.6	Decay of natural & man-made deposits of certain manerals that are radioactive & may emit from of radiation known as photons & beta radiation
Gross Alpha	6/6/2003	pci/l	5	5	1.8	Erosion of natural deposits of certain minerals that are radioative & may emit a form of radiation known as alpha radiation .
Copper (1)	2008	ppm	1.3	AL=1.3	0.25	Corrosion of household plumbing system; erosion from natural deposits; Leaching from wood preservatives.
Lead (2)	2008	ppm	0.015	0.015	0.001	Corrosion of household plumbing system;erosion of natural deposits.

Key to Table

AL=Action Level ppm= Parts per Million

MCL= Maximum Contaminant Level ppb= Parts per Billion

MCLG = Maximun Contaminant Level Goal NA= Not Applicable

pci/l= Picocuries per Liter (a measure of radioactivity)