TOWN OF KIRKLIN 2017 CONSUMER CONFIDENCE REPORT

Annual Drinking Water Quality Report for the period of January 1 to December 31, 2017. This report is intended to provide you with information about your drinking water and the efforts made by the water system to provide safe drinking water. Kirklin Water Department is Ground Water

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

The Kirklin water supply is groundwater pumped from two wells located in the town.

Source water assessment and its availability

We have a source water assessment plan available from our office that provides more information such as potential sources of contamination. I am pleased to report that our water is safe and meets federal and state requirements.

Why are there contaminants in my drinking water?

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 (EPA) Safe Drinking Water Hotline (800-426-4791).

Sources of Drinking Water

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: microbial contaminants, such as viruses and bacteria, that 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 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; and 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 prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

If you have any questions about this report or your water utility, please contact the Town of Kirklin by calling 765-279-8786 or by writing P.O. Box 147, 113 N. Main St. Kirklin, IN 46050. If you want to learn more about your water utility, you can attend any of our regularly scheduled meetings The meetings are held on the second Monday of each month at the Community Center, 113 N. Main St. Kirklin, IN.

Description of Water Treatment Process

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

- Take short showers a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.

- · Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- · Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit www.epa.gov/watersense for more information.

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- · Eliminate excess use of lawn and garden fertilizers and pesticides - they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- · Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.

• Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Additional Information for 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. Town of Kirklin Water Dept. 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

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table..

· ·		l						Runoff from fertilizer
Nitrate [measured as Nitrogen] (ppm)	i0	10	0.5	ŅA		2016	No	Leaching from septic t sewage; Erosion of nat deposits
Nitrite [measured as Nitrogen] (ppm)	- Personal Control of	***	NA			2014	No	Runoff from fertilizer Leaching from septic t sewage; Erosion of na deposits
Fluoride (ppm)	4	4	NA		-	2015	No	Erosion of natural dep Water additive which promotes strong teeth; Discharge from fertiliz aluminum factories
Barium (ppm)	2	2	NA	ACCUMATES AND THE STATE OF THE		2015	No	Discharge of drilling v Discharge from metal refineries, Erosion of a deposits
Antimony (ppb)	6	6	NA	innes for project of production and beautiful and the second of the seco		2015	No	Discharge from petrol refineries; fire retardar ceramics; electronics; test addition.
Arsenic (ppb)	0	10	NA	des and s-defined fractions of the level of		2015	No	Erosion of natural dep Runoff from orchards from glass and electro production wastes
Beryllium (ppb)	4	4	NA	Agin abridani de Propinsi Propinsi Propinsi de Propinsi de Propinsi de Propinsi de Propinsi de Propinsi de Pro		2015	No	Discharge from metal refineries and coal-bur factories, Discharge fr electrical, aerospace, a defense industries
Cadmium (ppb)	· 5	. 5	NA			2015	No	Corrosion of galvaniza Erosion of natural dep Discharge from metal refineries; runoff from batteries and paints
Chromium (ppb)	100	100	NA			2015	No	Discharge from steel a mills; Erosion of natu deposits
Mercury [Inorganic] (ppb)	2	2	NA			2015	No	Erosion of natural dep Discharge from refine factories; Runoff from landfills; Runoff from cropland
Cyanide [as Free Cn] (ppb)	200	200	NA			2015	No	Discharge from plastic fertilizer factories; Di- from steel/metal facto
Selenium (ppb)	50	50	NA			2015	No	Discharge from petrol metal refineries; Erosi natural deposits; Disch from mines
Thallium (ppb)	0.5	2	NA			2015	No	Discharge from electric glass, and Leaching frocessing sites; drug factories
Radioactive Contam	inants					india:		
Beta/photon emitters (pCi/L)	0	50	NA			2014	No	Decay of natural and made deposits. The E considers 50 pCi/L to level of concern for B particles.
Alpha emitters (pCi/L)	0	15	NA.			2014	No	Erosion of natural de
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Synthetic organic cor	ıtaminants	includir	ıg pestici	des an	d herb	icides		
Atrazine (ppb)	3	3	NA			2016	No	Runoff from herbicide used on row crops
Benzo(a)pyrene (ppt)	0	200	NA.			2016	No	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	40	40	NA			2016	No	Leaching of soil furnigant used on rice and alfalfa
Chlordane (ppb)	0	2	NA.			2016	No	Residue of banned termiticide
2,4-D (ppb)	70	70	NA			2016	No	Runoff from herbicide used on row crops
Dalapon (ppb)	200	200	NA			2016	No	Runoff from herbicide used on rights of way
Dinoseb (ppb)	7	7	NA			2016	*No	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)	20	20	NA			2016	No	Runoff from herbicide use
Endothall (ppb)	100	100	NA			2016	No	Runoff from herbicide use
Endrin (ppb)	2	2	NA			2016	No	Residue of banned insecticide
Ethylene dibromide (ppt)	. 0	50	NA			2016	No	Discharge from petroleum refineries
Glyphosate (ppb)	700	700	NA			2016	No	Runoff from herbicide use
Heptachlor (ppt)	0	400	NA			2016	No	Residue of banned pesticide
Heptachlor epoxide (ppt)	0	200	NA			2016	No	Breakdown of heptachlor
Hexachlorobenzene (ppb)	0	1	NA.			2016	No	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopent adiene (ppb)	50	50	NA			2016	No	Discharge from chemical factories
Lindane (ppt)	200	200	NA			2016	No	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	40	40	NA			2016	No	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)	200	200	NA	:		2016	No	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
Pentachlorophenol (ppb)	0	1	NA.			2016	No	Discharge from wood preserving factories
Pictoram (ppb)	500	500	NA		-	2016	No	Herbicide runoff
Simazine (ppb)	4	4	NA		1.0	2016	No	Herbicide runoff
2,4,5-TP (Silvex) (ppb)	50	50	NA			2016	/ No	Residue of banned herbicide
Toxaphene (ppb)	0	3	NA			2016	No	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Co	ntaminant	HINEIR					建设建设	
Benzene (ppb)	0	5	NA			2014	No	Discharge from factories; Leaching from gas storage tanks and landfills
Carbon Tetrachloride (ppb)	0	5	NA			2014	No	Discharge from chemical plants and other industrial activities
Chlorobenzene (monochlorobenzene) (ppb)	100	100	NA			2014	No	Discharge from chemical and agricultural chemical factories
Dichloromethane (ppb)	0	5	NA	diministration of the second		2014	No	Discharge from pharmaceutical and chemical factories

1,1-Dichloroethylene (ppb)	7	7	NA		2014	No	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	0	5	NA		2014	No	Discharge from industrial chemical factories
1,2-Dichloropropane (ppb)	0	5	NA		2014	No	Discharge from industrial chemical factories
Ethylbenzene (ppb)	700	700	NA		2014	No	Discharge from petroleum refineries
Styrene (ppb)	100	100	NA		2014	No	Discharge from rubber and plastic factories, Leaching from landfills
Tetrachloroethylene (ppb)	0.	5	NA		2014	No	Discharge from factories and dry cleaners
Toluene (ppm)	1	1	NA		2014	No	Discharge from petroleum factories
trans-1,2- Dichloroethylene (ppb)	100	100	NA		2014	No	Discharge from industrial chemical factories
cis-1,2- Dichloroethylene (ppb)	70	70	NA		2014	No	Discharge from industrial chemical factories
1,1,1-Trichloroethane (ppb)	200	200	NA		2014	No	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	3-	5	NA		2014	No	Discharge from industrial chemical factories
1,2,4- Trichlorobenzene (ppb)	70	70	NA		2014	No	Discharge from textile- finishing factories
Trichloroethylene (ppb)	0	5	NA		2014	No	Discharge from metal degreasing sites and other factories
Vinyl Chloride (ppb)	0	2	NA		2014	No	Leaching from PVC piping, Discharge from plastics factories
Xylenes (ppm)	10	10	NA		2014	No	Discharge from petroleum factories; Discharge from chemical factories

Source Water Information

SWA = Source Water Assessment

Source Water Name

WELL#1

WELL#2

Type of Water

GW

GW

nt Status

Location

N Perry St. N Perry St.

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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. We are responsible for providing high quality drinking water, but we 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 Hotiline or at http://www.spa.gov/safewater/lead.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/17/2015	1,3	1.3	0.16	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/17/2015	0	15	. 5	0	dqq	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions:

The following tables contain scientific terms and measures, some of which may require explanation.

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Maximum Contaminant Level or 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.

Level 1 Assessment:

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total colliform bacteria have been

found in our water system.

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or MRDL:

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.

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. coll MCL violation

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of

has occurred and/or why total colliform bacteria have been found in our water system on multiple occasions.

microbial contaminants.

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2017	1 ,	1 - 1	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haioacetic Acids (HAA5)	2017	10	3 - 26.9	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2017	41	4.5 - 84.5	No goal for the total	80	dqq	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	09/17/2015	0,284	0.284 - 0.284	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	09/17/2015	0.986	0.986 - 0.986	4	4.0	bòsu	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

nit Descriptions						
Term	Definition					
ug/L	ug/L: Number of micrograms of substance in one liter of water					
ppm	ppm: parts per million, or milligrams per liter (mg/L)					
ppb	ppb: parts per billion, or micrograms per liter (μg/L)					
ppt	ppt: parts per trillion, or nanograms per liter					
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)					
NA	NA: not applicable					
ND	ND: Not detected					
NR .	NR: Monitoring not required, but recommended.					

Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	MCL: Maximum Contaminant Level: 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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
. AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. 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.
MRDL	MRDL: Maximum residual disinfectant level. 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.
MNR .	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

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