Consumer Confidence Report City of Vienna for year 2019.the annual CCR report will NOT be mailed to each customer. Please call the waterplant at 618-658-3821 or City Hall at 618-658-5161 to request a copy to be mailed to you.

Annual Drinking Water Quality Report City of Vienna Facility # IL08760350

VIENNA

IL0870350

Annual Mater Quality Report for the period of January 1 to December 31, 2019

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by VIENNA is Surface Water

For more information regarding this report contact:

Name Dale Leggett or Herb Hosfeldt

Phone 618-658-3821

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source 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.

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 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. 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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

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

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).

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 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 irinking 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.

Source Water Information

Source Water Name	Type of Water	Report Status Location	
CC10-MASTER METER FROM MILLSTONE WDFF IL1515050 TP04	SW	Active east side of the city of	determination.
IN70810 - BLOCMFIELD LAKE 3.5MI NE VIENNA	SW	Active North east of city limits	napolary
IN70811 - SIDE CHANNEL RESERVOIR	SW	Active NE EDGE OF VIENNA	

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The City Council meets on the 1st and 3rd Wednesday's of the month at 6:30 Pm. at City Hall, which is located at 205 North 4th Street, Vienna, IL. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at 618-658-3821. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl
If you would like a copy of the source water assessment please contact either the Waterplant at 618-658-3821 or City Hall at 618-658-5161 to request a copy to be mailed to you.

Source of Water: VIENNA Illinois. EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems. Hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Causes of pollution to the lake include nutrients, siltation, suspended solids, and organic enrichment. Primary sources of pollution include agricultural runoff, land disposal (septic systems), and shoreline erosion. The city of vienna has (2) RAW water sources. Drinking water for the City of Vienna, Illinois (Facility No. 0870350) is supplied by the Vienna community water supply (CWS). Bloomfield Lake and the Vienna Reservoir act as the source of this drinking water.

Water Quality Test Results

Maximum residual disinfectant level

goal or MRDLG:

na:

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

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

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.

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.

Maximum Contaminant Level Goal or 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 or 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. MERCIE. .

> 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.

not applicable.

millirems per year (a measure of radiation absorbed by the body) meen:

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

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	2019	1.9	1.6 - 1.9	MRDLG = 4	MHDL = 4	ppm	M	Water additive used to control microbes.
Chlorite	2019	0.73	0.44 - 0.73	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAAS)	2019	15	0 - 12.22	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2019	B	0 - 5.55	No goal for the total	80	pph	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	2019	0.026	0.026 - 0.026	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride	2019	0.7	0.746 ~ 0.746	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Manganese	2019	5	4.7 - 4.7	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate (measured as Nitrogen)	2019	0.05	0.05 - 0.05	10	10	ppm	M	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	2019	14	14 ~ 14		3	ppm	N	Erosion from naturally occuring deposits. Used in water softener regeneration.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	ИCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	01/06/2015	0.915	0.915 - 0.915	0	£-	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	01/06/2015	0.287	0.287 - 0.287	0	15	pCi/L	N	Erosion of natural deposits.

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 MIN	0.28 NTU	N	Soil runoff.
Lowest monthly % meeting limit	0.3 NTU	100%	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

The city of Vienna also purchases drinking water from Millstone PWD .The 2019 Millstone CCR Report is also included for your information.

Annual Drinking Water Quality Report

MILLSTONE PWD

IL1515050

Annual Water Quality Report for the period of January 1 to December 31, 2019

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by MILLSTONE PWD is Ground Water

For more information regarding this report contact:

Dennis Jolly

618 - 949 - 3340

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Source 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.

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- 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.
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Source Water Information

Source Water Name	Type of Water	Report Status	Location
WATER FROM BURNSIDE W.D., ONLY 62 BURNSIDE CC04 PER MARION	GW	active	One mile east of New Simpson Hill Grade School on Gilead Hill Road. MSL of 756 feet.
WELL 5 (00757)	GW	active	<u> </u>

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please source by City Hall or call our water operator at 618-949-3340 . To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois F website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

Source of Water: MILLSTONE PWDTo determine Millstone PWD's susceptibility to groundwater contamination, a Well Site Survey, published in 1994 by the Illinois EPA, was reviewed. Based on information obtained in this document, one potential source of groundwater contamination is present that could pose a hazard to the groundwater pumped by the Millstone PWD community water supply wells. This site is a lime sludge lagoon located 50 feet from Well #5. Based on information provided by Millstone PWD's water supply officials, this lime sludge lagoon has changed its status (sludge removed) and the four wells listed in the above site data table have been properly abandoned. The community's source water is susceptible to SOC contamination from non-point sources related to agricultural land use. Also, as a result of monitoring conducted at the wells and entry point to the distribution system, the land-use activities, and a source water protection initiatives by the facility, the Millstone PWD's source water is not susceptible to VOC and IOC contamination. Furthermore, in anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that the Millstone PWD's wells are not vulnerable to viral contamination. This determination is based on the evaluation of the following criteria considered during the Vulnerability Waiver Process: the community's wells are properly constructed with sound integrity and proper site conditions; all potential routes and sanitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate a history of disease outbreak; and the sanitary survey of the water supply did not indicate viral contamination threat. However, having stated this, the "[U.S.] EPA is proposing to require States to identify systems in karst, gravel, and fractured rock aquifer systems as sensitive and these systems must perform routine source water monitoring". Because the community's wells are open to an unconfined sand and gravel aquifer, the Illinois EPA evaluated the well hydraulics associated with the Millstone PWD's well field. The amount of overburden should provide an adequate degree of filtration to prevent the movement of pathogens into the wells. Source of Water: DS3 SALINE VALLEY CONSERVANCY DISTRICTTO determine Saline Valley's susceptibility to contamination, a Well Site Survey, published by the Illinois EPA in 1989, was reviewed. Based upon this survey, there are 7 potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Saline Valley's wells. These include 2 wells, 1 above ground fuel storage tank, 1 below ground fuel storage tank, 1 warehouse, 1 waste disposal, and 1 grain elevator. The Peabody Coal Company (PCC) operated Eagle No. 2, an underground mine with a coal processing plant and refuse disposal areas on the surface. The refuse disposal areas are located east of Saline Valley wells. There is extensive groundwater contamination in the vicinity of the refuse disposal areas. Concentrations of chloride, iron, manganese, sulfate and total dissolved solids (TDS) exceed the 35 Illinois Administrative Code Part 620.410 Class I: Potable Resource Groundwater concentrations. PCC will be required to implement an adequate corrective action at the site to remediate groundwater contamination. information, the Illinois EPA has determined that the Saline Valley community water supply's source water is susceptible to contamination. As such, the Illinois EPA has provided 5-year recharge area calculations for the wells. The land use within the recharge area of the wells was analyzed as part of this susceptibility determination. This land use includes agricultural properties.

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples		Likely Source of Contamination
0	1 positive monthly sample.	1		0	И	Naturally present in the environment.

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

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	0.201	0	ppm	N	Erosion of natural deposits; Leaching wood preservatives; Corrosion of house plumbing systems.

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.

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.

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.

Maximum Contaminant Level Goal or 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 or The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a MRDL:

disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not

Water Quality Test Results

goal or MRDLG: reflect the benefits of the use of disinfectants to control microbial contaminants.

na: not applicable.

mrem: millirems per year (a measure of radiation absorbed by the body)

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

kegulated Contaminants

Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2019	1.9	1.4 - 1.9	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2019	27	8.5 - 33.7	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2019	80	26.1 - 98.3	No goal for the total	80	ppb	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
Arsenic - While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPAs standard balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and	08/01/2018	8.46	8.46 - 8.46	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes.
circulatory problems.								
Barium	08/01/2018	0.0295	0.0295 - 0.0295	2	2	ppm	N	Discharge of drilling wastes; Discharge formetal refineries; Erosion of natural deposit
Fluoride	08/01/2018	0.69	0.69 - 0.69	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Sodium	08/01/2018	23.4	23.4 - 23.4			ppm	N	Erosion from naturally occuring deposits. Used in water softener regeneration.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Gross alpha excluding radon and uranium	04/01/2015	3.8	3.8 - 3.8	0	15	pCi/L	N	Erosion of natural deposits.