

2017 Consumer Confidence Report Data

LENA WATERWORKS, PWS ID: 44304931

Water System Information

If you would like to know more about the information contained in this report, please contact Doug Bergeson at (920) 373-5324.

We are pleased to present our Annual Water Quality Report for 2017. This report is designed to inform you about the quality of the water and services we deliver to you each day. Our goal is to continue to provide a safe and dependable drinking water supply to our customers. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We currently draw our water from two deep sandstone wells that are constructed in the Elk Mound Group of the Cambrian Aquifer. • Well #1 is located within the Village Hall at 117 E. Main St. • Well #2 is located at 439 Harley St. Our water plant utilizes a hydrous manganese oxide treatment process. Village of Lena routinely monitors for constituents in your drinking water according to State and Federal Laws. The following tables show the results of our monitoring for the period of January 1st, 2017 through December 31st, 2017.

Opportunity for input on decisions affecting your water quality

We welcome the public to our Lena Utility meetings which are held at the Village Hall, 117 E. Main St, in the the Conference Room. Meeting are held on the 3rd Monday of each month @ 6:30 pm.

Health Information

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).

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 systems 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 Environmental Protection Agency's safe drinking water hotline (800-426-4791).

Source(s) of Water

Source ID	Source	Depth (in feet)	Status
1	Groundwater	500	Active

Source ID	Source	Depth (in feet)	Status
2	Groundwater	496	Active

To obtain a summary of the source water assessment please contact, Doug Bergeson at (380) 373-5324.

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 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 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 prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

Definitions

Term	Definition
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
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 or why total coliform bacteria have been found in our water system, or both, on multiple occasions.
MCL	

Term	Definition
	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.
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.
MFL	million fibers per liter
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.
MRDLG	Maximum residual disinfectant 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.
mrem/year	millirems per year (a measure of radiation absorbed by the body)
NTU	Nephelometric Turbidity Units
pCi/l	picocuries per liter (a measure of radioactivity)
ppm	parts per million, or milligrams per liter (mg/l)
ppb	parts per billion, or micrograms per liter (ug/l)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or picograms per liter
TCR	Total Coliform Rule
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

Detected Contaminants

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

Disinfection Byproducts

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2017)	Violation	Typical Source of Contaminant
HAA5 (ppb)	D-5	60	60	1	1		No	By-product of drinking water chlorination
TTHM (ppb)	D-5	80	0	4.7	4.7		No	By-product of drinking water chlorination

Inorganic Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2017)	Violation	Typical Source of Contaminant
BARIUM (ppm)		2	2	0.130	0.051 - 0.130		No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE (ppm)		4	4	0.2	0.2 - 0.2		No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
NICKEL (ppb)		100		0.6300	0.0000 - 0.6300		No	Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products.
SODIUM (ppm)		n/a	n/a	14.00	9.60 - 14.00		No	n/a

Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date (if prior to 2017)	Violation	Typical Source of Contaminant
COPPER (ppm)	AL=1.3	1.3	0.2500	0 of 10 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD (ppb)	AL=15	0	3.60	1 of 10 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits

Radioactive Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2017)	Violation	Typical Source of Contaminant
GROSS ALPHA, EXCL. R & U (pCi/l)		15	0	5.3	0.0 - 5.3		No	Erosion of natural deposits
RADIUM, (226 + 228) (pCi/l)		5	0	3.5	1.5 - 3.5		No	Erosion of natural deposits
GROSS ALPHA, INCL. R & U (n/a)		n/a	n/a	5.3	0.0 - 5.3		No	Erosion of natural deposits

Health effects for any contaminants with MCL violations/Action Level Exceedances

Contaminant Health Effects

LEAD Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Additional Health Information

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. Lena Waterworks 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 www.epa.gov/safewater/lead.

2017 CONSUMER CONFIDENCE REPORT (CCR) CERTIFICATION

Community Water System Name: LENA WATERWORKS
Community Water System ID: 44304931

You must complete and send this form, along with an actual copy of the CCR, by July 1, 2018 to your Regional DNR Drinking Water Representative at the following address:
CHRIS LINSKENS, 2984 SHAWANO AVE, GREEN BAY, WI 54313-6727, 920-662-5188, FAX#: 920-662-5413

I confirm that this system's Consumer Confidence Report was distributed to customers as indicated below and information contained in the CCR is correct and consistent with compliance data submitted to DNR.

Certified by:

(Name, Title) Doug Bergeson, Operator in Charge (Date) June 20, 2018
(Phone) (920) 373-5324 (E-mail address) dbergesonvoflena@gmail.com

If you have any non-bill paying consumers (e.g., business customers, renters, workers) you must make good faith effort to also reach these water users. At least one of the following is required, in addition to the method(s) selected below for your population (the same method may not be used for both this section and the next):

Check all that apply.

- ☒ Published CCR in local newspaper. Copy attached.
☒ Posted CCR in public places. List of locations attached.
☐ Advertised availability of CCR upon request. Announcement attached.
☐ Posted CCR on the Internet at: http://
☐ Mailed CCR to postal patrons in service area. Zip codes used are attached.
☐ Delivered multiple CCR copies to single bill addresses serving apartments, businesses, and large employers, etc.
☐ Delivered CCR to community organizations. Attach list.
☒ Other. Description attached. Village of Lena Facebook Page

Options for CCR distribution are based on population served. **Check all items that were completed.**

This system has 501-10,000 consumers. **The following is required in addition to the good faith efforts listed above:**

☐ CCR is available to the public upon request

At least one of the following options is also required:

Option 1

CCR was distributed by mail, electronically* or direct delivery. List method and date:

☒ **Option 2**

CCR was published in a local newspaper. Attach copy, name of publication and date. Customer was also informed in newspaper, water bill or other method that CCR will not be mailed but is available upon request. List method of notification that CCR will not be mailed:

Option 3

CCR was distributed by mail, electronically* or direct delivery. List method and date:

CCR was also published in a local newspaper. Attach copy, name of publication and date.

***If electronic delivery in lieu of mailing the CCR was used you must provide additional information as outlined below. (If you did not use electronic delivery, you can ignore the information below.)**

If electronic delivery was used in lieu of mailing the CCR, **check which method of electronic delivery was used:**

_____ An e-mail was sent to consumers containing a link (URL) to a web page that contained the CCR. The e-mail included a statement encouraging readership. It also instructed how to request a paper CCR. E-mails that bounced back as undeliverable were addressed by sending the customer a CCR by another direct delivery method. **A copy of the e-mail message is attached.**

_____ An e-mail was sent to consumers containing an electronic copy of the CCR as an attachment in a format that can be viewed without paying for additional software (e.g., PDF format). The e-mail included a statement encouraging readership. It also instructed how to request a paper CCR. E-mails that bounced back as undeliverable were addressed by another direct delivery method. **A copy of the e-mail message is attached.**

_____ An e-mail was sent to consumers containing the CCR as text and tables within the message. The e-mail included a statement encouraging readership. It also instructed how to request a paper CCR. E-mails that bounced back as undeliverable were addressed by sending the customer a CCR by another direct delivery method. **A copy of the e-mail message is attached.**

For any of the above methods, undeliverable e-mail messages were addressed by doing the following:

_____ **A bill or other mailing to customers contained a link (URL) to a web page that contained the CCR. The URL was prominently displayed in the mailing. It included an option for the customer to request a paper CCR and included a statement about water quality to promote readership. In addition, a separate notification was given to customers who use electronic payment, since not all customers who electronically pay their bills may receive a paper bill or open a paper bill if they do receive it. A copy of the bill or mailing is attached. A copy of the notification given to customers who use electronic payment is enclosed.**

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Public Location Posting of 2017 CCR

The 2017 CCR was posted on June 21, 2018 at the following five (5) locations:

- Lena Village Hall, 117 E. Main St, Lena
- Lena Public Library, 200 E. Main St, Lena
- US Post Office, 135 E. Railroad St, Lena
- Huntington Bank, 301 W. Main St, Lena
- Lena High School, Lena