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2021 Consumer Confidence Report

2021 Water Quality Report for The Village of Three Oaks

Water Supply Serial Number: 0660

This report covers the drinking water quality for The Village of Three Oaks for the 2021 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2021. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (USEPA) and state standards.

Your water comes from three (3) groundwater wells, each over one hundred (100) feet. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, water chemistry and contamination sources. The well sensitivity is "not vulnerable", and the susceptibility is "low" based on the assessment report. A copy is on file at the Village Hall or can be obtained through the Michigan Dept. of Environment Great Lakes, and Energy-Kalamazoo Field Office: 269-567- 3500.

There are no significant sources of contamination in our water supply. We are making efforts to protect our sources by continual testing, monitoring, and participating in the wellhead protection program.

If you would like to know more about this report, please contact: Dan Faulkner, Village of Three Oaks, 21 North Elm Street, Three Oaks, Michigan, 269-756-9221, manager@threeoaks.vi or visit our website www.threeoaksvillage.org.

Contaminants and their presence in 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 USEPA's Safe Drinking Water Hotline (800-426-4791).

Vulnerability of sub-populations: 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. USEPA/Center for Disease

Control 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).

Sources of drinking water: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water comes from 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 and residential uses.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.
- **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.



To ensure that tap water is safe to drink, the USEPA prescribes regulations that limit the levels of certain contaminants in water provided by public water systems. Federal Food and Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.

Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2021 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2021. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All the data is representative of the water quality, but some are more than one year old.

Terms and abbreviations used below:

- 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 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.
- N/A: Not applicable
- ND: not detectable at testing limit
- ppm: parts per million or milligrams per liter
- ppb: parts per billion or micrograms per liter
- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Level 1 Assessment: A study of the water supply to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

How can I get involved?

Attend: Village of Three Oaks Council Meetings held every 2nd Wednesday of each month.

Phone or Write: Village of Three Oaks, 21 N. Elm Street, Three Oaks, Michigan 49128/Ph 269-756-9221

Other Source: Berrien County Health Department/Ph 269-926-7121

This report is updated annually. Copies are available at Village Hall or online at www.threeoaksvillage.org

Our water supply has 824 services of those, 797 are of an unknown material. Service lines are defined as water lines from the meter pit to the house. In a proactive measure the Village applied and received a DWAM grant from EGLE. This grant in the amount of \$236,150 and will be used to identify 165 services in the system. The DWAM Grant is a one-time grant program developed by EGLE under Michigan's Clean Water Plan that provides grant funding to assist drinking water supplies in asset management plan development and updates, and/or distribution system materials inventory development as defined in Michigan's revised Lead and Copper Rule. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relative short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their physicians. Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning disabilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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 of lead service lines and home plumbing. The Village of Three Oaks 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 have a lead service line it is recommended that you run your water for at least five minutes to flush water from your home plumbing and the lead service line. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead drinking water, test methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>. During the monitoring period from January 1, 2021, to December 31, 2021, we did have one lead sample return above the MCL (Maximum Contamination Level). The lead service line was replaced.

¹Monitoring Data for Regulated Contaminants

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Arsenic (ppb)	0.10	0	ND	NA	March 2021	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	2	2	0.24	NA	July 2015	No	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	0.28	NA	March 2021	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium ¹ (ppm)	NA	NA	43	NA	March 2021	No	Erosion of natural deposits
Chloride (ppm)	NA	NA	36	NA	March 2021	No	Naturally occurring element
Hardness (CaCO ₃)	NA	NA	240	NA	March 2021	No	Naturally occurring element
Total Coliform (total number or % of positive samples/month)	TT	NA	NA	NA	2021	No	Naturally present in the environment
<i>E. coli</i> in the distribution system (positive samples)	See <i>E. coli</i> note ²	0	ND	ND	2021	No	Human and animal fecal waste
Fecal Indicator – <i>E. coli</i> at the source (positive samples)	TT	NA	ND	ND	2021	No	Human and animal fecal waste

¹ Sodium is not a regulated contaminant.

² *E. coli* MCL violation occurs if: (1) routine and repeat samples are total coliform-positive and either is *E. coli*-positive, or (2) the supply fails to take all required repeat samples following *E. coli*-positive routine sample, or (3) the supply fails to analyze total coliform-positive repeat sample for *E. coli*.

Per- and polyfluoroalkyl substances (PFAS)								
Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant	
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt)	370	N/A	<2.0	NA	2021	No	Discharge and waste from industrial facilities utilizing the Gen X chemical process	
Perfluorobutane sulfonic acid (PFBS) (ppt)	420	N/A	<2.0	NA	2021	No	Discharge and waste from industrial facilities; Stain-resistant treatments	
Perfluorohexane sulfonic acid (PFHxS) (ppt)	51	N/A	<2.0	NA	2021	No	Firefighting foam; Discharge and waste from industrial facilities	
Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	<2.0	NA	2021	No	Firefighting foam; Discharge and waste from industrial facilities	
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	<2.0	NA	2021	No	Discharge and waste from industrial facilities; Breakdown of precursor compounds	
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	<2.0	NA	2021	No	Firefighting foam; Discharge from electroplating facilities; Discharge and waste from industrial facilities	
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	<2.0	NA	2021	No	Discharge and waste from industrial facilities; Stain-resistant treatments	
Inorganic Contaminant Subject to AIs	AL	MCLG	Your Water ³	Range of Results	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant	
Lead (ppb)	15	0	14	0 – 16	September 2021	Yes 1	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits	
Copper (ppm)	1.3	1.3	0.0	0.0 – 0.01	September 2021	No 0	Corrosion of household plumbing systems; Erosion of natural deposits	

³ Ninety (90) percent of the samples collected were at or below the level reported for our water.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

**CONSUMER CONFIDENCE REPORT FOR COMMUNITY WATER SUPPLY
CERTIFICATE OF DISTRIBUTION**

Issued under authority of the Safe Drinking Water Act, 1976 PA 399, and Administrative Rules, as amended.
Failure to submit certification is a violation of the Act and may subject the water supply to enforcement penalties.

Supply Name: <u>Village of Three Oaks</u>	County: <u>Berrien</u>	WSSN: <u>06600</u>
Population: <input type="checkbox"/> 500 or fewer people	<input checked="" type="checkbox"/> 501 – 9,999 people	<input type="checkbox"/> 10,000 or more people

Community water supplies must confirm that the Consumer Confidence Report (CCR) and any enclosed Public Notices (PN) or notices of CCR availability, have been distributed to customers by July 1 as required under administrative rules R 325.10415 and R 325.10404(4)(c). Supplies must also certify that the information contained in the CCR is correct and consistent with the compliance monitoring data previously submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE). **Return the certification to the appropriate EGLE district office by October 1.** For addresses, visit Michigan.gov/CommunityWater, then click on District Offices Map and Contact Information.

Method of delivery to EGLE	
<input type="checkbox"/> Mail <input checked="" type="checkbox"/> Email <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Other _____	Date delivered: <u>June 16, 2022</u>
Method of delivery to Local Health Department	
<input type="checkbox"/> Mail <input type="checkbox"/> Email <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Other _____	Date delivered: <u>June 16, 2022</u>
Method or combination of methods to directly deliver CCR to each bill paying customer. Check <u>all</u> that apply.	
<input checked="" type="checkbox"/> Mail or hand deliver a paper copy of CCR. Date(s) mailed or hand delivered: <u>June 16, 2022</u>	
<input type="checkbox"/> Mail or hand deliver notification that the CCR is available at a direct URL. Date(s) delivered to customers: _____	
<input type="checkbox"/> Email notification that CCR is available at direct URL: Date(s) emailed: _____	
<input type="checkbox"/> Email notification that CCR is attached to the email. Date(s) emailed: _____	
<input type="checkbox"/> Email notification that CCR is embedded in the email. Date(s) emailed: _____	
If using notification of CCR availability:	
1. Mail a paper CCR to customers who request it and to customers known to be incapable of receiving electronically.	
2. Include a copy of the notification to EGLE district office with this certification form.	
3. Explain the nature of the notification, prominently display the direct URL, include statement how to request a paper copy.	
<div style="border: 1px solid black; padding: 5px;"> <p>Example of Notification of CCR Availability Subject Line: 2018 Drinking Water Quality Report Available. Message: Your annual report on the source and quality of your drinking water is available online at www.anytown.gov/waterqualityreport. To have a copy mailed to you, contact Anytown at 555-111-1111 or water@anytown.gov.</p> </div>	
<input type="checkbox"/> Option for supplies serving fewer than 10,000 persons: Publish entire report in newspaper, <u>and</u> notify customers via newspaper(s) in which CCR published, mail, email or hand delivery that individual copies will not be mailed, <u>and</u> include statement how to request a paper copy.	
Date(s) of publication: _____	
<input type="checkbox"/> Option for supplies serving 500 or fewer persons: Notify customers via mail, email, hand delivery or, with EGLE approval, posting in public places, that a copy of the report is available from the water supply on request.	
Date(s) of notification: _____	
Post on Internet (required for supplies serving $\geq 100,000$, optional for others)	
<input checked="" type="checkbox"/> Internet address: <u>www.threeoaksvillage.org</u>	Date accessible: <u>June 16, 2022</u>
"Good Faith" efforts to reach non-bill-paying consumers (in <u>addition</u> to the method(s) above). Check <u>all</u> that apply.	
<input checked="" type="checkbox"/> Mail the report to all postal patrons. Zip codes and dates mailed: <u>June 16, 2022 Zip 49128</u>	
<input type="checkbox"/> Mail to each service connection physical address. Date(s) mailed: _____	
<input type="checkbox"/> Advertise the availability of the report in the newspapers, on TV, and on the radio.	
<input type="checkbox"/> Publish the report in a local newspaper.	
<input checked="" type="checkbox"/> Post the report in public places such as cafeterias in public buildings, libraries, churches, and schools.	
<input type="checkbox"/> Deliver multiple copies for distribution by single-bill customers, e.g., apartments or private employers.	
<input type="checkbox"/> Deliver the report to community organizations.	
<input type="checkbox"/> Other: _____	
Send to EGLE a copy of the news articles, a list of channels broadcast and dates, and a list of locations/organizations reports delivered to and dates.	
A Tier 3 Public Notice is Distributed with this CCR	
<input type="checkbox"/> This CCR is being used to deliver a Tier 3 Public Notice for one or more violations. To use this Tier 3 delivery option, the CCR must be directly delivered to each bill paying customer or, with EGLE approval, continuously posted, and must be issued within 12 months of learning of the violation. A copy of this form must be delivered to the EGLE within ten days of delivering the CCR to customers to meet the public notification requirements.	
Name/Title: <u>Dan Faulkner, Village Manager/Operator in Charge</u>	
Signature: <u>[Signature]</u>	Date: <u>6-16-2022</u>

