2022 Consumer Confidence Report

Water System Name:	North	Oaks N	Mutual Water C	C o.	Report Date:	02/18/23			
of our monitor Este	ing for the	e period contier	of January 1 - Deco ne información m	ember 31, 2022 d nuy important	and may includ e sobre su ag				
Favor de comunicarse North Oaks Mutual Water Co. a (209) 765-0162 para asistirlo en español.									
Type of water source(s) in	use:	Ground	lwater Wells						
Name & general location of source(s): Well #1 (North Oaks & Oakview Dr.), Well #2 (River Oaks Dr.),									
[Well #3 (Oak Cree	ek Ct.), Well #4 (Oakview & Oa	k Crest Ct.)			
Duinting Weter Course A		:	tions Commit						
Drinking Water Source A	ssessment	informa	tion: Comple	eted in Septembe	r of 2002				
Time and place of regular	lv schedul	led board	l meetings for publi	c participation.	None				
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For more information, con	ntact:	Neil Car	mes		Phone:	(209) 765-0162			
				O IN THIS REP					
 Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no 			 Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels. 						
known or expected risk to U.S. Environmental Protec			Treatment Technique (TT) : A required process intended to reduce the level of a contaminant in drinking water.						
	no know		Regulatory Action Level (AL) : The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.						
Environmental Protection Agency. Maximum Residual Disinfectant Level (MRDL) : The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant			Variances and Exemptions : State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.						
is necessary for control of microbial contaminants.				ND: not detectable at testing limit					
Maximum Residual Disinfectant Level Goal (MRDLG): 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.				ppm : parts per million or milligrams per liter (mg/L) ppb : parts per billion or micrograms per liter (µg/L)					
				ppt : parts per trillion or nanograms per liter (ng/L)					
				pCi/L : picocuries per liter (a measure of radiation)					
The sources of drinking v	vater (bot	h tap wa	ter and bottled wate	er) include rivers	, lakes, streams	s, 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, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that 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*, that 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, that are by-products of industrial and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.

• Radioactive contaminants, that 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, the USEPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, and 5 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 - Microbiological Contaminants	- SAMPLIN Highest No. of Detections	No. of Months in Violation		G THE DETECTION		OF COLII MCLG	FORM BACTERIA Typical Source of Bacteria
E. Coli	0	0		(a)		0	Human and animal fecal waste
<i>E. coli</i> -positive routine sam	ple or system	fails to ana	lyze total col	liform-positiv	e repeat sa	mple for E.	Is to take repeat samples following <i>coli</i> .
Lead and Copper (and reporting units)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	09/11/20	5	< 5	0	15	0.2	Internal corrosion of household water plumbing systems; discharge from industrial manufacturers; erosion of natural deposits
Copper (ppm)	09/11/20	5 0.1		0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	TABLE	3 – SAMPL	LING RESU	LTS FOR SO	ODIUM A	ND HARD	DNESS
Chemical or Constituent (and reporting units)	Sample Date	Avera Leve Detect	ו ת	Range of Detections		PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2020 - 2021	9		6 - 11	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2020 - 2021	74		58 - 98		None	Sum of polyvalent cations present i the water, generally magnesium and calcium, and are usually naturally occurring

*Any violation of an MCL, MRDL, AL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 4 – DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD						
Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	
2022*	2	2 - 3	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	
2020 - 2021	< 0.1	< 0.1 - 0.1	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
2020 - 2021	0.1	< 0.1 - 0.4	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits	
2020 - 2021	< 2	< 2 - 3	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes	
ECTION OF	CONTAMI	NANTS WIT	TH A <u>SEC</u>	<u>ONDARY</u> D	DRINKING WATER STANDARD	
Sample Date	Average Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant	
2020 - 2021	162	140 - 200	1000	N/A	Runoff/leaching from natural deposits	
2020 - 2021	222	200 - 250	1600	N/A	Substances that form ions when in water; seawater influence	
2020 - 2021	18	7 - 48	500	N/A	Runoff/leaching from natural deposits; seawater influence	
2020 - 2021	4	0.2 - 17*	5	N/A	Soil runoff	
2020 - 2021	4	1 - 7	500	N/A	Runoff/leaching from natural deposits' industrial wastes	
2020 - 2021	625*	< 100 - 2500*	300	N/A	Leaching from natural deposits; industrial wastes	
2020 - 2021	< 20	< 20 - 29	50	N/A	Leaching from natural deposits	
	Sample Date 2022* 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021 2020 - 2021	Sample DateAverage Level Detected $2022*$ 2 $2020 - 2021$ < 0.1	Sample DateAverage Level DetectedRange of Detections $2022*$ 22 - 3 $2020 - 2021$ < 0.1 $< 0.1 - 0.1$ $2020 - 2021$ 0.1 $< 0.1 - 0.4$ $2020 - 2021$ < 2 $< 2 - 3$ $2020 - 2021$ < 2 $< 2 - 3$ ECTION OF CONTAMINANTS WITSample DateAverage Level DetectedRange of Detections $2020 - 2021$ 162 $140 - 200$ $2020 - 2021$ 222 $200 - 250$ $2020 - 2021$ 18 $7 - 48$ $2020 - 2021$ 4 $0.2 - 17*$ $2020 - 2021$ 4 $1 - 7$ $2020 - 2021$ $625*$ $< 100 - 2500*$	Sample DateAverage Level DetectedRange of DetectionsMCL (MRDL)2022*22 - 3102020 - 2021 < 0.1 $< 0.1 - 0.1$ 22020 - 2021 < 0.1 $< 0.1 - 0.4$ 12020 - 2021 < 2 $< 2 - 3$ 102020 - 2021 < 2 $< 2 - 3$ 102020 - 2021 < 2 $< 2 - 3$ 102020 - 2021 < 2 $< 2 - 3$ 102020 - 2021 < 2 $< 2 - 3$ 102020 - 2021 < 2 $< 2 - 3$ 102020 - 2021 $1 < 2$ $2 < 2 - 3$ 10002020 - 2021 $1 < 2$ $2 < 0 - 250$ 16002020 - 2021 $1 $ $2 < 2 < 2 < 3$ 16002020 - 2021 $4 $ $0 \cdot 2 - 17 *$ $5 $ 2020 - 2021 $4 $ $1 - 7$ $5 $ 2020 - 2021 $4 $ $1 - 7$ $5 $ 2020 - 2021 $4 $ $1 - 7$ $5 $	Sample DateAverage Level DetectedRange of DetectionsMCL (MRDL)PHG (MCLG) (MRDLG]2022*22-310102020 - 2021 < 0.1 $< 0.1 - 0.1$ 212020 - 2021 0.1 $< 0.1 - 0.4$ 122020 - 2021 < 2 $< 2 - 3$ 100.0042020 - 2021 < 2 $< 2 - 3$ 100.0042020 - 2021 < 2 $< 2 - 3$ 100.0042020 - 2021 < 2 $< 2 - 3$ 100.0042020 - 2021 < 2 $< 2 - 3$ 100N/A2020 - 2021162140 - 2001000N/A2020 - 202118 $7 - 48$ 500N/A2020 - 20214 $0.2 - 17*$ 5N/A2020 - 20214 $1 - 7$ 500N/A2020 - 2021625* $< 100 - 2500*$ 300N/A	

*Any violation of an MCL, MRDL, AL, or TT is asterisked. Additional information regarding the violation is provided on the next page.

Additional General Information on 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 the 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 (1-800-426-4791).

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 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. USEPA/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 Drinking Water Hotline.

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. North Oaks Mutual Water Co. 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/lead.

Summary Information for Violation of an MCL, MRDL, AL, TT, or Monitoring and Reporting Requirements

In April of 2021, iron and turbidity were detected in the drinking water at Well #2 at levels above the allowable limit. The State has established the maximum allowable limit for iron and turbidity as secondary limits, not as primary limits. These secondary MCLs are set to protect you from unpleasant aesthetic affects such as color, taste, odor, and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. A violation of these MCLs do not pose a risk to public health.

Nitrate is tested annually at each of the four wells supplying drinking water to North Oaks Mutual Water Company. No nitrate testing was perfored for Well #4 in 2022. Well #4 is a stand-by well and was not supplying drinking water in 2022. Therefore; the levels of nitrate supplied to the consumers in 2022 were within acceptable levels and considered safe to drink.

Vulnerability Assessment Summary

A source water assessment was conducted for Well #1 (West), Well #2 (East) and Well #3 of the North Oaks Mutual Water Company water system in September of 2002. Note that Well #4 is a stand-by well and no assessment is required. The sources are considered most vulnerable to the following activities not associated with any detected contaminants: farm machinery repair, grazing, lagoons/liquid wastes, pesticides/fertilizer/petroleum storage and transfer areas, septic systems - low density, wells - agricultural/irrigation, and concentrated animal feeding operations.

Recent water quality analyses indicate that these sources are in compliance with State Standards. There have been no contaminants detected in the water supplies, however the sources are still considered vulnerable to activities located near the drinking water sources. For more information regarding the assessment summary, contact: Neil Carnes at: (209) 765-0162.