



## 2021 Consumer Confidence Report

### Water System Information

Water System Name: **Scotia CSD- Public Water System #120010**

Report Date: June 10, 2021

Type of Water Source(s) in Use: **Surface Water**

Population: **681 persons**

Name and General Location of Source(s): **Eel River Infiltration Gallery, Scotia CA**

Drinking Water Source Assessment Information: A source water assessment was completed in 2003, and updated in 2017 by Scotia Community Services District. A copy of the completed assessment is on file at Scotia Community Services District, 400 Church Street, Scotia CA 95565, 707-764-3030; <http://scotiacsd.com>

Time and Place of Regularly Scheduled Board Meetings for Public Participation: Scotia Community Services District (SCSD) Board hold public meetings the 3rd Thursday of each month at 5:30 PM at 400 Church Street, Scotia CA 95565.

For More Information, Contact: Leslie Marshall, General Manager. (707) 764- 3030

#### About This Report

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2021 and may include earlier monitoring data.

#### Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Scotia CSD – Public Water System #120010 a 400 Church Street, Scotia or 707-764-3030 para asistirlo en español.

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Scotia CSD – Public Water System #120010以获得中文的帮助: 400 Church Street, Scotia 707-764-3030

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Scotia CSD – Public Water System #120010 400 Church Street, Scotia o tumawag sa 707-764-3030 para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Scotia CSD – Public Water System #120010 tại 400 Church Street, or 707-764-3030 để được hỗ trợ giúp bằng tiếng Việt.

Language in Hmong: Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Scotia CSD – Public Water System #120010 ntawm 400 Church Street, Scotia or 707-764-3030 rau kev pab hauv lus Askiv.

#### Terms Used in This Report

Term	Definition
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 <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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 known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (U.S. EPA).

Term	Definition
Maximum Residual Disinfectant Level (MRDL)	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.
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.
Primary Drinking Water Standards (PDWS)	MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
Public Health Goal (PHG)	The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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.
Treatment Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water.
Variances and Exemptions	Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.
ND	Not detectable at testing limit.
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)
ppq	parts per quadrillion or picogram per liter (pg/L)
pCi/L	picocuries per liter (a measure of radiation)

### Sources of Drinking Water and Contaminants that May Be Present in Source 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, 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 byproducts of industrial processes 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.

### Regulation of Drinking Water and Bottled Water Quality

In order to ensure that tap water is safe to drink, the U.S. EPA 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.

## About Your Drinking Water Quality

### Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, and 6 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. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

**Table 1. Sampling Results Showing the Detection of Coliform Bacteria and Compliance with Total Coliform MCL between January 1, 2021 and June 30, 2021 (inclusive)**

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (State Total Coliform Rule)	0 (In a month)	0	1 positive monthly sample <sup>(a)</sup>	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (State Total Coliform Rule)	0 (in the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	None	Human and animal fecal waste
<i>E. coli</i> (Federal Revised Total Coliform Rule)	0 (in the year)	0	(b)	0	Human and animal fecal waste

(a) For systems collecting fewer than 40 samples per month: Two or more positive monthly samples is a violation of the MCL

(b) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

- For violation of the total coliform MCL, include potential adverse health effects, and actions taken by water system to address the violation: No violations.

**Table 2. Sampling Results Showing the Detection of Lead and Copper**

Lead and Copper	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant	Next Sample Due
Lead (ppb)	9/30/2020	10	2.3	0	15	0.2	1	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	9/30/2023
Copper (ppm)	9/30/2020	10	.12	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	9/30/2023

**Table 3. Sampling Results for Sodium and Hardness**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	Next Sample Due
Sodium (ppm)	9/15/15	10		None	None	Salt present in the water and is generally naturally occurring	9/2024
Hardness (ppm)	9/15/15	220		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring	9/2024

**Table 4. Detection of Contaminants with a Primary Drinking Water Standard**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Next Sample Due
Barium (mg/L)	9/15/15	0.250	-	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits	9/2024
Flouride (mg/L)	12/30/13	.10	-	2	.1	Erosion of natural deposits; water additive* which promotes strong teeth; discharge from fertilizer and aluminum factories	12/2022
TTHMs [Total Trihalomethanes] µg/L	9/28/2021	12.47	4.0	80	N/A	Byproduct of drinking water disinfection	9/2022
HAA5 [Haloacetic Acids] µg/L	9/28/2021	0	6.0	60	N/A	Byproduct of drinking water disinfection	9/2022

\*Scotia CSD does not add fluoride into the drinking water.

**Table 5. Detection of Contaminants with a Secondary Drinking Water Standard**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source Of Contaminant	Next Sample Due
Foaming Agents	5/17/16	.05	---	.5	N/A	Municipal and industrial waste discharges	5/2025
Chloride (mg/L)	5/17/16	5.7	---	500	N/A	Runoff/leaching from natural deposits	5/2025
Total Dissolved Solids (mg/L)	5/17/17	250	---	1,000	N/A	Runoff/leaching from natural deposits	5/2025
Specific Conductance (umho/cm)	06/23/20	260	---	1600	N/A	Substances that form ions when in water	3/2030
Sulfate (mg/L)	5/17/17	11	---	500	N/A	Runoff/leaching from natural deposits	5/2025

**Table 6. Detection of Unregulated Contaminants**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Not Applicable (n/a)	n/a	n/a	n/a	n/a	n/a



### **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 U.S. EPA'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. U.S. 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 Drinking Water Hotline (1-800-426-4791).

**Lead-Specific Language:** 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. Scotia Community Services District 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 do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

### **For Systems Providing Surface Water as a Source of Drinking Water**

The conventional water treatment system consists of the following processes:

Polymer addition, rapid mix, coagulation, flocculation, sedimentation (raw water storage tank), filtration (two pressure filters with sand and gravel media) and disinfection (chlorine gas chlorination).

Our certified operators have kept the drinking waters of Scotia safe and reliable for many years.



**Table 7. Sampling Results Showing Treatment of Surface Water Sources**

Treatment Technique <sup>(a)</sup> (Type of approved filtration technology used)	Conventional Filtration: Polymer addition, rapid mix, coagulation, flocculation, sedimentation (raw water storage tank), filtration (two pressure filters with sand and gravel media) and disinfection (chlorine gas chlorination).
Turbidity Performance Standards (TPS) <sup>(b)</sup> (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to 0.3 NTU in 95% of measurements in a month. 2 – Not exceed 1.0 NTU for more than one continuous hour, for four-hour intervals, or for more than eight consecutive hours. 3 – Not exceed 5.0 NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	93% January 2021
Highest single turbidity measurement during the year	5.1 NTU September 2021
Number of violations of any surface water treatment requirements (by violation type)	1 – 1 month 2 – 2 instances 3 – 2 readings Total violations: 5

(a) A required process intended to reduce the level of a contaminant in drinking water.

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

**Summary Information for Violation of a Surface Water TT**

**Table 8. Violation of Surface Water TT**

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
TPS 1 - 93% NTU less than or equal to 0.3 NTU January 2021	13/186 samples above 0.3 NTU, with 3/186 samples above 1.0 NTU. Major Sources of Turbidity in Drinking Water: Soil runoff.	1 month	Backwashed system more frequently and cleaned turbidimeters (monitoring equipment).	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.
TPS 2 - Not exceed 1.0 NTU for more than one continuous hour	above 1.0 NTU from 6:52am-9:37am on 10/25, Backwashing System	6:52am-9:37am on 10/25	Backwashed system more frequently and cleaned turbidimeters (monitoring equipment).	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.
TPS 2 - Not exceed 1.0 NTU for more than one continuous hour	above 1.0 NTU from 9:06am-10:51am on 11/24, Backwashing System	9:06am-10:51am on 11/24	Backwashed system more frequently and cleaned turbidimeters (monitoring equipment).	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.
TPS 3 -- Not exceed 5.0 NTU at any time	1 reading spike 5.1 on 9/20 @ 6:11am, Backwashing System	'1' 15-minute sample	Backwashed system more frequently and cleaned turbidimeters (monitoring equipment).	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.
TPS 3 -- Not exceed 5.0 NTU at any time	1 reading spike 5.1 on 11/24 @ 10:51am, Backwashing System	'1' 15-minute sample	Backwashed system more frequently and cleaned turbidimeters (monitoring equipment).	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.