

## 2021 ANNUAL DRINKING WATER QUALITY REPORT

**PWSID #: 4560046      NAME: Somerset Township Municipal Auth - Oakridge**

*Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)*

### **WATER SYSTEM INFORMATION:**

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact Carolyn Zambanini, Manager, at (814) 445-5842. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held the second Thursday of each month at 7:00 p.m. at the Municipal Building located at 2209 North Center Avenue, Somerset, Pennsylvania.

### **SOURCE(S) OF WATER:**

Our water source(s) is/are purchased from Somerset Borough, the sources of which include the Shafer Run Road Wells, Coxes Creek Road Wells, and the Beck Road Well. The Borough of Somerset also purchases water from the Somerset County General Authority Water System. Copies of both the Somerset Borough and Somerset County General Authority "Annual Drinking Water Quality Reports" are attached hereto.

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).

### **MONITORING YOUR WATER:**

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2021. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

### **DEFINITIONS:**

*Action Level (AL)* - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

*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.

*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 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.

*Minimum Residual Disinfectant Level (MinRDL)* - The minimum level of residual disinfectant required at the entry point to the distribution system.

*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.

*Treatment Technique (TT)* - A required process intended to reduce the level of a contaminant in drinking water.

*Mrem/year* = millirems per year (a measure of radiation absorbed by the body)

*pCi/L* = picocuries per liter (a measure of radioactivity)

*ppb* = parts per billion, or micrograms per liter (µg/L)

*ppm* = parts per million, or milligrams per liter (mg/L)

*ppq* = parts per quadrillion, or picograms per liter

*ppt* = parts per trillion, or nanograms per liter

**DETECTED SAMPLE RESULTS:**

<b>Chemical Contaminants</b>								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	MRDL = 4	MRDLG = 4	0.92	0.50 – 0.92	ppm	4/2021	N	Water additive used to control microbes.
HAA5	60	NA	26.0	9.1 – 42.9	ppb	6/15/21	N	By-product of drinking water disinfection
TTHM	80	NA	44.1	36.6 – 51.6	ppb	6/15/21	N	By-product of drinking water chlorination.

<b>Lead and Copper</b>							
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	0	ppb	0 of 20	N	Corrosion of household plumbing.
Copper	1.3	1.3	0.214	ppm	0 of 20	N	Corrosion of household plumbing.

**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 run-off, 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 and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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).

2021 ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: 4560042

NAME: Borough of Somerset

*Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)*

**WATER SYSTEM INFORMATION:**

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact Larry Kowatch, Superintendent and Chief Operator at (814) 445-2111. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at the Somerset Borough Municipal Building. Council meetings are held the fourth Monday of every month at 7:00 PM. Municipal Water Authority meetings are held the third Monday of every month at 7:00 PM. Visit the website: [somerestborough.com](http://somerestborough.com) or call (814) 443-2661 for more information.

**SOURCE(S) OF WATER:**

Our water source(s) is/are: (Name-Type-Location)

Well #1 and Well #2 Well water Shafer Run Road, Somerset, PA 15501

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Well #3 Well water 278 Beck Road, Somerset, PA 15501

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Well #7, #8, #9 Well water 3518 Coxes Creek Road, Somerset, PA 15501

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The Borough of Somerset purchases water from the *Somerset County General Authority Water System*, please review their "Annual Drinking Water Quality Report" for additional information (Attached).

A *Source Water Assessment* of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our source(s) of is/are potentially most susceptible to Transportation Corridors, Junk Yard / Auto Repair Shop and Dairy Farms. A summary report of the Assessment is available on the *Source Water Assessment & Protection web page* at (<http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/SrceProt/SourceAssessment/default.htm>). On review of the document, note that the Source Water Assessment includes surface water from the Laurel Hill Creek. The Borough of Somerset no longer has a permit to use the Laurel Hill Creek's surface water as a source. Also, Somerset Borough's water production is limited to only six well water sources not eight. Complete reports were distributed to municipalities, water supplier, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Ebensburg Regional Office, Records Management Unit at (814) 472-1921.

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).

## **MONITORING YOUR WATER:**

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2021. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

## **DEFINITIONS:**

*Action Level (AL)* - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

*EP* – Entry point from treatment plant to the distribution system. EP 101 = Laurel Hill Filtration Plant  
EP 103 = Coxes Creek Treatment Plant

*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.

*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 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.

*Minimum Residual Disinfectant Level (MinRDL)* - The minimum level of residual disinfectant required at the entry point to the distribution system.

*Plant 300* – Laurel Hill Filtration Plant

*Treatment Technique (TT)* - A required process intended to reduce the level of a contaminant in drinking water.

*Mrem/year* = millirems per year (a measure of radiation absorbed by the body)

*pCi/L* = picocuries per liter (a measure of radioactivity)

*ppb* = parts per billion, or micrograms per liter ( $\mu\text{g/L}$ )

*ppm* = parts per million, or milligrams per liter (mg/L)

*ppq* = parts per quadrillion, or picograms per liter

*ppt* = parts per trillion, or nanograms per liter

**DETECTED SAMPLE RESULTS:**

**Chemical Contaminants**

Contaminant		MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	EP 101	MRDL= 4	MRDLG= 4	2.36	1.91 - 2.36	ppm	2021	N	Disinfectant water additive used to control microbes.
Chlorine	EP 103	MRDL= 4	MRDLG= 4	2.40	1.63 - 2.40	ppm	2021	N	Disinfectant water additive used to control microbes.
Fluoride	EP 101	2*	4	0.91	.70 - .91	ppm	2021	N	Water additive which promotes strong teeth.
Fluoride	EP 103	2*	4	0.94	.51 - .94	ppm	2021	N	Water additive which promotes strong teeth.
Nitrate	EP 101	10	10	.53	NA	ppm	7/8/2021	N	Runoff from fertilizer use.
Nitrate	EP 103	10	10	0	NA	ppm	7/8/2021	N	Runoff from fertilizer use.
Nitrite	EP 101	1	1	0	NA	ppm	7/8/2021	N	Runoff from fertilizer use.
Nitrate	EP 103	1	1	0	NA	ppm	7/8/2021	N	Runoff from fertilizer use.
Arsenic	EP 101	10	0	0	NA	ppm	1/12/2021	N	Erosion of natural deposits; Runoff from orchards
Arsenic	EP 103	10	0	0	NA	ppm	1/12/2021	N	Erosion of natural deposits; Runoff from orchards

\*EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Contaminant		MCL in ppm	MCLG	Highest *LRAA	Range of Quarterly *LRAA	Units	Sample Date	Violation Y/N	Sources of Contamination
HAA5	DEP ID 701	0.060	NA	.076	.033 - .076	ppb	2021	N	By-product of drinking water disinfection
HAA5	DEP ID 702	0.060	NA	.077	.037 - .077	ppb	2021	N	By-product of drinking water disinfection
TTHM	DEP ID 701	0.080	NA	.034	.021 - .034	ppb	2021	N	By-product of drinking water disinfection
TTHM	DEP ID 702	0.080	NA	.041	.026 - .041	ppb	2021	N	By-product of drinking water disinfection

\*Locational Running Annual Average (LRAA) EPA/DEP Stage 2 Disinfectant Byproducts Rule requires this quarterly method to indicate MCL Violations.

Heading	DEP Maximum Contaminate Level	Heading	DEP Maximum Contaminate Level
pH	8.50	Mang Manganese	.05 mg/l
Alk Alkalinity	NA	Iron	.30 mg/l
T Hard Total Hardness	NA	Turb Turbidity	3
C Hard Calcium Hardness	NA	TDS Total Dissolved Solids	500 mg/l
Chloride	250.0 mg/l	Cond Conductivity	NA
F Chlorine Free Chlorine	3.00 mg/l	Fl2 Fluoride	2.00
T Chlorine Total Chlorine	4.00 mg/l	Po4 Phosphate	NA

<b>Distribution System Disinfectant Residual</b>							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine Distribution as Total Chlorine	MCL .20	.64	.64 – 2.25	ppm	2021	N	By-product of drinking water disinfection

<b>Microbial</b>					
Contaminants	MCL	MCLG	Highest # or % of Positive	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	For systems that collect <40 samples/month: • More than 1 positive monthly sample	0	0	N	Naturally present in the environment.
Fecal Coliform Bacteria or <i>E. coli</i>	0	0	0	N	Human and animal fecal waste.

**VIOLATIONS CONCERNING HEALTH EFFECTS:**

None “No MCL’s or Treatment Techniques were exceeded” in any location of the CCR.

**OTHER VIOLATIONS:**

None

**EDUCATIONAL INFORMATION:**

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# 2021 Finished Water Analysis

Current as of: 12/31/2021

## Facility #1 Laurel Hill Filtration Plant Entry Point (EP) 101

	Lab pH	Alk	T Hard	C Hard	F Chlorine	Mang	Iron	Po4	Fl2	Temp	TDS	Cond.	Inactivation Log Values
Ave	7.60	69.91	88.50	78.37	2.17	0.015	0.025	0.52	0.80	12.64	105.99	169.58	263.21
Min	7.49	64.4	61.2	62.8	1.91	0.002	0.010	0.42	0.70	7.6	10.4	14.9	184.70
Max	7.76	79.6	99.2	90.8	2.36	0.027	0.050	0.59	0.91	16.9	113	195.5	376.11

## Facility #2 Shafer Run Wells

	pH	Alk	T Hard	C Hard	Mang	Iron	Temp	TDS	Cond.
Ave	7.77	70.75	88.64	78.81	0.01	0.028	13.26	104.08	169.36
Min	7.38	62.4	71.2	64.4	0.003	0.002	9.1	10.9	103.6
Max	7.93	82	106.8	95.2	0.029	0.070	17.7	176.2	291

## Facility #3 Coxes Creek Filtration Plant Entry Point (EP) 103

	pH	Alk	T Hard	C Hard	Fl2	F Chlorine	Mang	Iron	Po4	Temp	TDS	Cond.	Inactivation Log Value
Ave	7.34	158.71	134.00	112.75	0.78	2.04	0.021	0.018	0.50	10.89	169.96	286.47	21.28
Min	7.23	150.4	33.2	74.4	0.51	1.63	0.007	0.010	0.38	7.2	12.2	201.9	19.78
Max	7.65	168	149.6	133.6	0.94	2.40	0.037	0.040	0.69	13.3	209.7	346	26.94

## Facility #4 Quemahoning Chemical Feed Building Entry Point (EP) 104

	INF (Influence from County Water System, Purchased Water)										Finished Water Analysis (EP 104 to Distribution System)		
	pH	Alk	T Hard	C Hard	T Chlorine	Mang	Iron	TDS	Cond.	Fl2	T Chlorine	Po4	Fl2
Ave	7.37	38.35	90.88	71.33	1.18	0.01	0.023	119.86	202.20	1.40	0.50	0.76	
Min	7.2	27.2	34.6	46.4	0.95	0.001	0.010	102.7	117.9	1.23	0.40	0.47	
Max	7.59	72.8	122.4	121.2	1.47	0.035	0.070	139.7	256	1.65	0.71	1.01	

Note: On the average our water production is as follows:

Facility #1 and Facility #2 are combined production (Facility #2 water flows through Facility #1) producing 23%, Facility #3 produces 17% and we purchase 60% from the County water system through Facility #4

\*\* With water demand and seasonal conditions these percentages vary.

Heading	DEP Maximum Contaminate Level	Heading	DEP Maximum Contaminate Level
pH	8.50	Mang Manganese	.05 mg/l
Alk Alkalinity	NA	Iron	.30 mg/l
T Hard Total Hardness	NA	Turb Turbidity	3.00
C Hard Calcium Hardness	NA	TDS Total Dissolved Solids	500 mg/l
Chloride	250.0 mg/l	Cond Conductivity	NA
F Chlorine Free Chlorine	3.00 mg/l	Fl2 Fluoride	DEP 2.00 mg/l - EPA 4.0 mg/l
T Chlorine Total Chlorine	4.00 mg/l	Po4 Phosphate	NA
Alum	.200 mg/l	Copper	1.00 mg/l
Zink	5.00 mg/l		



# *2021 Annual Drinking Water Quality Report*

## **Somerset County General Authority - PWSID #4560009**

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

The Somerset County General Authority takes great pleasure in presenting our 2021 Annual Drinking Water Quality Report. This report provides information about your water quality and what it means. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. If you have any questions or concerns about this report or your water utility, please contact Terry Stutzman or Matthew Estep at (814)-629-9460. If you would like to learn more, please attend any of our regularly scheduled meetings which are held on the second Thursday of each month at 3:00PM, in the Commissioner's Board Room.

Our water source is surface water from the Quemahoning Reservoir, which is located in Somerset County and spans portions of Conemaugh, Jenner, and Quemahoning Townships. The reservoir is owned by the Cambria-Somerset Authority (CSA). We purchase raw water from the CSA and process it through our water treatment plant where it is treated to remove contaminants, filtered, and disinfected with chlorine before entering the distribution system.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

The tables below list all of the drinking water contaminants that we detected during the 2021 calendar year. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2021. The state requires 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. Some of the data, though representative of the water quality, is more than one year old.

In this table, you may find terms and abbreviations that you are not familiar with. The following definitions have been provided to help you better understand this data:

*Parts per million (ppm) or Milligrams per liter (mg/l)* - One part per million corresponds to one minute in two years or a single penny in \$10,000.

*Parts per billion (ppb) or Micrograms per liter* - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

*Picocuries per liter (pCi/L)* - a measure of radioactivity

*Maximum Contaminant Level (MCL)* - The "Maximum Allowed" (MCL) is 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 (MCLG)** - The "Goal" (MCLG) is 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 (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 contamination.

**Minimum Residual Disinfectant Level (MinRDL)** - The minimum level of residual disinfectant required at the entry point to the distribution system.

**Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water.

Contaminant (Unit of Measurement)	Violation Yes/No	Lowest Level Detected	Range of Detections	Sample Date	Minimum Disinfectant Residual	Major Sources in Drinking Water
Chlorine (ppm)	No	1.14	1.14 -1.71	2021	0.20	Water additive used to control microbes

Contaminant (Unit of Measurement)	Violation Yes/No	Level Detected	Range	MCL	MCLG	Major Sources in Drinking Water
Chlorine (ppm)	No	1.12	1.03 – 1.12	MRDL = 4	MRDLG = 4	Water additive used to control microbes
Barium (ppm)	No	0.0296	-	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nickel (ppm)	No	0.0017	-	2	2	Erosion of natural deposits
Nitrate (ppm)	No	0.88	-	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
TTHM (Total Trihalomethanes) (ppb)	No	37.1	-	80	N/A	By-product of drinking water disinfection
HAA5 (Haloacetic Acids) (ppb)	No	41.5	-	60	N/A	By-product of drinking water disinfection
Gross Alpha (pCi/L) (9-9-2020)	No	6.04	-	15	0	Erosion of natural deposits

Contaminant (Unit of Measurement)	MCL	MCLG	Level Detected	Sample Date	Violation Yes/No	Major Sources in Drinking Water
Turbidity (NTU)	TT = 1 NTU for a single measurement	0	0.092	11/11/21	No	Soil Runoff
	TT = at least 95% of monthly samples $\leq$ 0.3 NTU		100%	2021	No	

Contaminant	Range of % Removal Required	Range of % Removal Achieved	Number of Quarters out of Compliance	Violation Yes/No	Major Sources in Drinking Water
Total Organic Carbon (TOC)	35%	14% - 42%	None*	No	Naturally present in the environment

\*Alternative Compliance Criteria (ACC) were used to determine compliance

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 run-off, 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.

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

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) or at <http://www.epa.gov/safewater/lead>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water.

# ***2021 Annual Drinking Water Quality Report***

## **Somerset County General Authority - PWSID #4560009**

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

The Somerset County General Authority takes great pleasure in presenting our 2021 Annual Drinking Water Quality Report. This report provides information about your water quality and what it means. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. If you have any questions or concerns about this report or your water utility, please contact Terry Stutzman or Matthew Estep at (814)-629-9460. If you would like to learn more, please attend any of our regularly scheduled meetings which are held on the second Thursday of each month at 3:00PM, in the Commissioner's Board Room.

Our water source is surface water from the Quemahoning Reservoir, which is located in Somerset County and spans portions of Conemaugh, Jenner, and Quemahoning Townships. The reservoir is owned by the Cambria-Somerset Authority (CSA). We purchase raw water from the CSA and process it through our water treatment plant where it is treated to remove contaminants, filtered, and disinfected with chlorine before entering the distribution system.

**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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).**

The tables below list all of the drinking water contaminants that we detected during the 2021 calendar year. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2021. The state requires 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. Some of the data, though representative of the water quality, is more than one year old.

In this table, you may find terms and abbreviations that you are not familiar with. The following definitions have been provided to help you better understand this data:

**Parts per million (ppm) or Milligrams per liter (mg/l)** - One part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb) or Micrograms per liter** - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Picocuries per liter (pCi/L)** - a measure of radioactivity

**Maximum Contaminant Level (MCL)** - The "Maximum Allowed" (MCL) is 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 (MCLG)** - The "Goal" (MCLG) is 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 (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 contamination.

**Minimum Residual Disinfectant Level (MinRDL)** - The minimum level of residual disinfectant required at the entry point to the distribution system.

**Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water.

Table 1: Entry Point Disinfectant Residual						
Contaminant (Unit of Measurement)	Violation Yes/No	Lowest Level Detected	Range of Detections	Sample Date	Minimum Disinfectant Residual	Major Sources in Drinking Water
Chlorine (ppm)	No	1.14	1.14 -1.71	2021	0.20	Water additive used to control microbes

Table 2: Chemical Contaminants						
Contaminant (Unit of Measurement)	Violation Yes/No	Level Detected	Range	MCL	MCLG	Major Sources in Drinking Water
Chlorine (ppm)	No	1.12	1.03 – 1.12	MRDL = 4	MRDLG = 4	Water additive used to control microbes
Barium (ppm)	No	0.0296	-	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nickel (ppm)	No	0.0017	-	2	2	Erosion of natural deposits
Nitrate (ppm)	No	0.88	-	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
TTHM (Total Trihalomethanes) (ppb)	No	37.1	-	80	N/A	By-product of drinking water disinfection
HAA5 (Haloacetic Acids) (ppb)	No	41.5	-	60	N/A	By-product of drinking water disinfection
Gross Alpha (pCi/L) (9-9-2020)	No	6.04	-	15	0	Erosion of natural deposits

Contaminant (Unit of Measurement)	MCL	MCLG	Level Detected	Sample Date	Violation Yes/No	Major Sources in Drinking Water
Turbidity (NTU)	TT = 1 NTU for a single measurement	0	0.092	11/11/21	No	Soil Runoff
	TT = at least 95% of monthly samples $\leq$ 0.3 NTU		100%	2021	No	

Contaminant	Range of % Removal Required	Range of % Removal Achieved	Number of Quarters out of Compliance	Violation Yes/No	Major Sources in Drinking Water
Total Organic Carbon (TOC)	35%	14% - 42%	None*	No	Naturally present in the environment

\*Alternative Compliance Criteria (ACC) were used to determine compliance

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 run-off, 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.

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

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) or at <http://www.epa.gov/safewater/lead>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water.