2022 Water Quality Report for Briley Township

This report covers the drinking water quality for Briley Township for the 2022 calendar year. This information is a snapshot of the quality of drinking water that we provide to you in 2022. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (U.S. EPA) and state standards.

Your water comes from two groundwater wells, each over 110 feet deep. The State 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, and water chemistry and contamination sources.
There are no significant sources of contamination in our water supply.
If you would like to know more about the report, please contact the Briley Township Office at (989)785-4050, P.O.Box 207, Atlanta, MI 49709 or deputyclerk@brileytownship.com

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 contaminates and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (800-426-4791)

Vulnerability of sub-population: 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/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 source 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 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.

occurring or result from urban storm water 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 storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the U.S EPA prescribes regulations that limit the levels of certain contaminants in the water provided by public water systems. Federal Food and Drug Administration regulations established limits for same protection for public health.

Water Quality Data

The table below lists all the drinking water contaminates that were detected during the 2022 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 1st through December 31st, 2022. The State allows us to monitor for contaminants are not expected to vary significantly from year to year. All the data is representative of the water quality, but some are more then one year old.

N/A: Not applicable

ND: not detectable at testing limit

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

pCi/l: picocuries per liter (a measure of radioactivity).

Action level (AL): The concentration of contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water which there is no known or expected risk to health. MCLGs allow for 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.

Maximum Residual Disinfectant Level (MRDL): means the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary to control microbial contaminants.

problems, especially for pregnant woman and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Briley Township 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 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 water, testing methods, and steps you can take to minimize exposure is available from Safe Drinking Water Hotline or at http:/www.epa.gov/safewater/lead.

Infants and children who drink water containing lead in excess of the action level could experience delayed 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.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively 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 personal doctor.

Monitoring and reporting to the Environmental Great Lakes Energy Requirements: The State of Michigan and the U.S. EPA require us to test our water on a regular basis to ensure safety. We met all the monitoring requirements for 2022.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. A copy of this report is available upon request at the Briley Township Office, 12423 Jerome St. Atlanta, MI 49709. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. The Briley township Board Meetings are held on the 2nd and 4th Wednesday of each month at 6:00pm at the Briley Township Hall. For more information about your water, or the contents of this report, contact Brian Pugh at (989(785-4050) EXT #4. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/lead.

There were three reporting violations for 2023,please see attached pages for information in regards to the violations.

Lead and Copper 90th percentile: Copper .06 ppm/Lead .000003ppb

SAFE DRINKING WATER FOR OUR CITIZENS REMAINS OUR PRIMARY GOAL. BRILEY TOWNSHIP WATERWORKS

Briley Township

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During August 1, 2022, to August 31, 2022, we monitored for trihalomethanes (TTHM) and haloacetic acids (HAA5), however our sample for TTHM was rejected by the lab. Therefore, we cannot be sure of the quality of your drinking water during that time.

What should I do? There is nothing you need to do at this time. This is not an emergency. You do not need to boil water or use an alternative source of water at this time. Even though this is not an emergency, as our customers, you have a right to know what happened and what we are doing to correct the situation.

The table below lists the contaminant samples we did not properly test for, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date we will collect follow-up samples.

Contaminants	Required sampling frequency	Number of samples taken	When samples should have been collected	Date additional samples will be collected
TTHM	1 sample every 3 years in August	0	August 1, 2022 – August 31, 2022	August 1, 2023 – August 31, 2023
HAA5	1 sample Every 3 years in August	0	August 1, 2022 – August 31, 2022	August 1, 2023 – August 31, 2023

What happened? What is being done? We took our samples on time, however our samples were rejected by the lab due to thermal preservation issues. We resampled in September instead of August 2022. We are doing everything we can to avoid this issue in the future and will resample in August 2023.

For more information, please contact Saun Keister, 989-619-1789.

Please share this information with all people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Briley Township.

Official Laboratory Report

Report To: BRIAN PUGH
12423 JEROME ST
ATLANTA MI 49709

Sample ID: LK08288
Work Order: 20401034_01

System Name/Owner:	BRILEY TWP HALL	WSSN/Pool ID:	0087
Collection Address:	11527 PETTENGER RD,ATLANTA	Source:	TYPE I
Collected By:	BRIAN PUGH	Site Code:	
Township/Well#/Section:	BRILEY//	Collector:	Other
County:	Montmorency	Date Collected:	04/11/2022 08:47
Sample Point:	BATHROOM SINK	Date Received:	04/12/2022 11:59
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	**Result**	**Units**	**RL**	**Date Tested**	**MCL/AL**	**Method**	**CAS #**
Per-And Polyfluorinated Alkyl Substances							
11Cl-PF3OUdS	Not Detected	ng/L	2	04/13/2022		EPA 537.1	763051-92-9c
9Cl-PF3ONS	Not Detected	ng/L	2	04/13/2022		EPA 537.1	756426-58-1d
ADONA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	919005-14-4e
HFPO-DA	Not Detected	ng/L	2	04/13/2022	370	EPA 537.1	13252-13-6b
NEtFOSAA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	2991-50-6
NMeFOSAA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	2355-31-9
PFBS	Not Detected	ng/L	2	04/13/2022	420	EPA 537.1	375-73-5
PFDA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	335-76-2
PFDoA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	307-55-1
PFHpA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	375-85-9
PFHxA	Not Detected	ng/L	2	04/13/2022	400000	EPA 537.1	307-24-4
PFHxS	Not Detected	ng/L	2	04/13/2022	51	EPA 537.1	355-46-4
PFNA	Not Detected	ng/L	2	04/13/2022	6	EPA 537.1	375-95-1
PFOA	Not Detected	ng/L	2	04/13/2022	8	EPA 537.1	335-67-1
PFOS	Not Detected	ng/L	2	04/13/2022	16	EPA 537.1	1763-23-1
PFTA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	376-06-7
PFTrDA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	72629-94-8
PFUnA	Not Detected	ng/L	2	04/13/2022		EPA 537.1	2058-94-8

RL: Reporting Limit
MCL: Maximum Contaminant Level
AL: Action Level
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)
ng/L: nanograms / Liter (ppt)
MPN: Most Probable Number

CFU: Colony Forming Unit
CAS: Chemical Abstract Service
Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on: 4/18/2022 11:55:55AM

Official Laboratory Report

Report To: BRIAN PUGH
12423 JEROME ST
ATLANTA MI 49709

Sample ID: LK08235
Work Order: 20401014_01

System Name/Owner:	BRILEY TOWNSHIP	WSSN/Pool ID:	00877
Collection Address:	12423 JEROME ST,ATLANTA	Source:	TYPE I
Collected By:	BRIAN PUGH	Site Code:	
Township/Well#/Section:	BRILEY//	Collector:	Other
County:	Montmorency	Date Collected:	04/11/2022 08:52
Sample Point:	BATHROOM SINK BRILEY TOWNSHIP HAL	Date Received:	04/12/2022 11:20
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	**Result**	**Units**	**RL**	**Date Tested**	**MCL/AL**	**Method**	**CAS #**
Calcium	68	mg/L	0.6	04/14/2022		EPA 200.7	7440-70-2
Chloride	11	mg/L	4	04/12/2022		SM 4500-Cl E	7647-14-5
Fluoride	0.12	mg/L	0.1	04/13/2022	4.0	10-109-12-2-A	16984-48-8
Hardness as CaCO3	240	mg/L	2	04/15/2022		SM 2340 C	HARD-00-C
Iron	0.28	mg/L	0.1	04/14/2022		EPA 200.7	7439-89-6
Magnesium	17	mg/L	0.1	04/14/2022		EPA 200.7	7439-95-4
Nitrate as N	0.5	mg/L	0.4	04/12/2022	10	EPA 353.2	14797-55-8
Nitrite as N	Not detected	mg/L	0.05	04/12/2022	1	EPA 353.2	14797-65-0
Sodium	6.2	mg/L	0.5	04/14/2022		EPA 200.7	7440-23-5
Sulfate	13	mg/L	10	04/12/2022		ASTM D516-16	14808-79-8
Dalapon and Haloacetic							
Bromoacetic acid	Not Detected	mg/L	0.001	04/14/2022		EPA 552.2	79-08-3
Bromochloroacetic acid	Not Detected	mg/L	0.001	04/14/2022		EPA 552.2	5589-96-3
Chloroacetic acid	Not Detected	mg/L	0.002	04/14/2022		EPA 552.2	79-11-8
Dalapon	Not Detected	mg/L	0.001	04/14/2022	0.2	EPA 552.2	75-99-0
Dibromoacetic acid	Not Detected	mg/L	0.001	04/14/2022		EPA 552.2	631-64-1
Dichloroacetic acid	Not Detected	mg/L	0.001	04/14/2022		EPA 552.2	79-43-6
Total Haloacetic Acids (five)	Not Detected	mg/L	NA	04/14/2022	0.060	EPA 552.2	THA-00-C
Trichloroacetic acid	Not Detected	mg/L	0.001	04/14/2022		EPA 552.2	76-03-9
Total Trihalomethanes							
Bromodichloromethane	0.0010	mg/L	0.0005	04/12/2022	0.080	EPA 524.2	75-27-4
Bromoform	0.0005	mg/L	0.0005	04/12/2022	0.080	EPA 524.2	75-25-2
Chlorodibromomethane	0.0014	mg/L	0.0005	04/12/2022	0.080	EPA 524.2	124-48-1
Chloroform	0.0006	mg/L	0.0005	04/12/2022	0.080	EPA 524.2	67-66-3

RL: Reporting Limit
MCL: Maximum Contaminant Level
AL: Action Level
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)
ng/L: nanograms / Liter (ppt)
MPN: Most Probable Number

CFU: Colony Forming Unit
CAS: Chemical Abstract Service
Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on: 4/18/2022 11:54:46AM

Sample ID: LK08235

Work Order: 20401014_01

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	**Result**	**Units**	**RL**	**Date Tested**	**MCL/AL**	**Method**	**CAS #**
Total Trihalomethanes							
Total Trihalomethanes	0.0035	mg/L	0.0005	04/12/2022	0.080	EPA 524.2	TTHM-00-C

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U .S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

District Health Dept. #4
PO Box 183
Atlanta, MI 49709
989 785-4428

RL: Reporting Limit
MCL: Maximum Contaminant Level
AL: Action Level
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)
ng/L: nanograms / Liter (ppt)
MPN: Most Probable Number

CFU: Colony Forming Unit
CAS: Chemical Abstract Service
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: BRILEY TWP
PO BOX 207
ATLANTA MI 49709

Sample ID: LK36117
Work Order: 20903407_01

System Name/Owner:	ROAD COMMISSION	WSSN/Pool ID:	00877
Collection Address:	11445 M32,ATLANTA	Source:	Other
Collected By:	BRIAN PUGH	Site Code:	TP100
Township/Well#/Section:	BRILEY//	Collector:	Other
County:	Montmorency	Date Collected:	09/21/2022 13:25
Sample Point:	BATHROOM SINK	Date Received:	09/22/2022 10:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	**Result**	**Units**	**RL**	**Date Tested**	**MCL/AL**	**Method**	**CAS #**
Dalapon and Haloacetic							
Bromoacetic acid	Not Detected	mg/L	0.001	09/27/2022		EPA 552.2	79-08-3
Bromochloroacetic acid	0.002	mg/L	0.001	09/27/2022		EPA 552.2	5589-96-3
Chloroacetic acid	Not Detected	mg/L	0.002	09/27/2022		EPA 552.2	79-11-8
Dalapon	Not Detected	mg/L	0.001	09/27/2022	0.2	EPA 552.2	75-99-0
Dibromoacetic acid	0.002	mg/L	0.001	09/27/2022		EPA 552.2	631-64-1
Dichloroacetic acid	0.004	mg/L	0.001	09/27/2022		EPA 552.2	79-43-6
Total Haloacetic Acids (five)	0.008	mg/L	NA	09/27/2022	0.060	EPA 552.2	THA-00-C
Trichloroacetic acid	0.002	mg/L	0.001	09/27/2022		EPA 552.2	76-03-9
Total Trihalomethanes							
Bromodichloromethane	0.0088	mg/L	0.0005	09/26/2022	0.080	EPA 524.2	75-27-4
Bromoform	0.0019	mg/L	0.0005	09/26/2022	0.080	EPA 524.2	75-25-2
Chlorodibromomethane	0.0063	mg/L	0.0005	09/26/2022	0.080	EPA 524.2	124-48-1
Chloroform	0.012	mg/L	0.0005	09/26/2022	0.080	EPA 524.2	67-66-3
Total Trihalomethanes	0.0290	mg/L	0.0005	09/26/2022	0.080	EPA 524.2	TTHM-00-C

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

District Health Dept. #4
PO Box 183
Atlanta, MI 49709
989 785-4428

RL: Reporting Limit
MCL: Maximum Contaminant Level
AL: Action Level
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)
ng/L: nanograms / Liter (ppt)
MPN: Most Probable Number

CFU: Colony Forming Unit
CAS: Chemical Abstract Service
Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on: 10/3/2022 3:07:29PM

GOVERNOR

January 11, 2023

VIA EMAIL AND U.S. MAIL

Ken Werner
Briley Township
P.O. Box 207
Atlanta, Michigan 49709

WSSN: 00877
County: Montmorency

Dear Ken Werner:

SUBJECT: Violation Notice; Monitoring and Reporting for Disinfectants and Disinfection Byproducts

The Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD) records show that Briley Township (the Township) is in violation of the Safe Drinking Water Act, 1976 PA 399, as amended (Act 399); specifically, R 325.10610b, *Disinfectant residuals, disinfection byproducts, and disinfection byproduct precursors; compliance requirements;* and R 325.10734, *Required reporting to the department*, of the 1979 Administrative Code. In accordance with the above rules, a supplier of water shall collect samples every three years in August, have them analyzed for trihalomethanes (TTHM) and haloacetic acids (HAA5), and report the results to EGLE, unless the EGLE laboratory performs the analysis and reports the results.

The Township's specific monitoring requirements were outlined in the EGLE-approved Disinfectants and Disinfection Byproducts Sampling Plan that was received on January 29, 2014. Records at EGLE show that the Township did collect the TTHM and HAA5 samples as required by the approved plan, however they were rejected by the lab. The samples were recollected in September instead of August.

EGLE's investigation is considered complete. The Township was out of compliance on September 1, 2022. To return to compliance, Briley Township must collect one TTHM and one HAA5 sample from 11445 M-32 (Site Code: DBP1), during the monitoring period August 1, 2023, to August 31, 2023, have them analyzed for TTHM and HAA5, and submit the reports of analysis to this office, unless the EGLE laboratory is used.

Administrative Rule R 325.10404, *Tier 3 public notice; form, manner, and frequency of notice*, of Act 399, requires that suppliers provide public notice not later than 12 months after learning of a violation, by mail or direct delivery, and by any other means reasonably calculated to reach customers not normally reached by mail. Enclosed is a sample Public Notice.

GRETCHEN WHITMER
GOVERNOR

LIESL EICHLER CLARK
DIRECTOR

November 22, 2022

VIA EMAIL AND U.S. MAIL

Ken Werner, Supervisor
Briley Township
P.O. Box 207
Atlanta, Michigan 49709

WSSN: 00877
County: Montmorency
Supply: Briley Township

Dear Ken Werner:

SUBJECT: **VIOLATION NOTICE** – Monitoring and Reporting for Lead and Copper

The records of the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD), show that Briley Township is in violation of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended; specifically, R 325.10710d, *Reporting requirements for lead, copper, and corrosion control,* of the 1979 Administrative Code. To meet all reporting requirements of the above rule, a water supply shall submit the completed Lead and Copper Report form within ten days following the end of a monitoring period.

All water system contacts were sent an email on August 2, 2022, reminding them of sampling and reporting requirements and deadlines for the June 1 to September 30, 2022, monitoring period. An email was also sent to your drinking water operator on October 14, 2022, notifying them that EGLE had not received the Lead and Copper Report.

EGLE's investigation consisted of a review of DWEHD files for the Lead and Copper Report form for compliance monitoring. Briley Township did not submit the required form on or before the deadline, making the submission late and resulting in this violation. If the required Lead and Copper Report form was submitted within the specified deadline, please submit the form immediately along with any supporting documentation of the original date submitted.

EGLE's investigation is considered complete. Briley Township was out of compliance on October 11, 2022. Briley Township returned to compliance on October 26, 2022, and there is no additional action needed for the Lead and Copper Report form. This violation must be included in your 2022 Consumer Confidence Report, which is due by July 1, 2023.

Additionally, a sample copy of the Consumer Notice, along with certification that the notification was distributed as required, is due to your district office by December 31, 2022. Failure to meet this deadline will result in an additional violation.