



THE CITY OF PANAMA CITY PROUDLY PRESENTS THE

2025 ANNUAL DRINKING WATER QUALITY REPORT

We are pleased to report that our drinking water meets all federal and state requirements. This year's Annual Drinking Water Quality Report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts made to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our surface water source is water drawn from Deer Point Reservoir. The City of Panama City purchases water from Bay County Utility Services.

The Bay County Water Treatment Plant uses a conventional treatment process consisting of coagulation, flocculation, sedimentation, filtration, pH adjustment, disinfection, fluoridation and corrosion control. The treatment process includes adding lime occasionally to provide additional alkalinity to the raw water so that it can react with the primary coagulating chemical, ferric sulfate that is added to remove particles and organics. Polymer is also added to assist in the coagulation process. Sodium Hypochlorite is added to maintain disinfection in the distribution system. The addition of zinc orthophosphate reduces the corrosiveness of the water. Fluoride, in the form of hydrofluorosilicic acid, is added as a supplement to prevent tooth decay. Lime is also added at the end of the process to increase the pH. These processes are needed to meet the drinking water standards as set by the United States Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP). If you have any questions about this report or concerning your water utility, please contact Anna Wright, City of Panama City Laboratory Superintendent at 850-872-3194. We encourage our valued customers to be informed about their water utility. If you would like to learn more, The City of Panama City Commission holds regularly scheduled meetings on the second and fourth Tuesdays at 8:00 am.

The City of Panama City Utilities Department and Bay County Utility Services routinely monitor constituents in your drinking water according to Federal and State laws. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2024. Data obtained before January 1, 2024, and presented in this report are from the most recent testing done in accordance with laws, rules and regulations. All monitoring contaminants in the table were provided by the Bay County Utility Services except for copper, lead, chlorine, and Stage 2 Disinfectants and Disinfection By-Products, which are provided by the City of Panama City Environmental Laboratory.

2025 CONTAMINANTS TABLE

TERMS AND ABBREVIATIONS

Maximum Contaminant Level (MCL) - The "Maximum Contaminant Level" 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" 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 contaminants.
N/A - Not applicable
ND -not detected and the substance was not found by laboratory analysis.
NTU - Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Parts per Million (ppm) or Milligrams per liter (mg/l) - One part per million corresponds to one part by weight of analyte to one million parts by weight of the water sample.

Parts per Billion (ppb) or Micrograms per liter(µg/l) - One part per billion corresponds to one part by weight of analyte to one billion parts by weight of the water sample.

Picocurie per liter (pCi/L) – Measure of the radioactivity in water

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

Microbiological Contaminants

Contaminant and Unit of Measurement	Dates of Sampling (Mo./Yr.)	MCL/ TT Violation Y/N	The Highest Single Measurement	The Lowest Monthly Percentage of Samples Meeting Regulatory Limits	MCLG	MCL	Likely Source of Contamination
Turbidity	Jan—Dec 2024	N	0.40	98.4	N/A	TT	Soil Runoff

Turbidity is a measure of cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of the filtration system. High turbidity can hinder the effectiveness of disinfectants. The Treatment Technique (TT) standard requires that 95% of the turbidity readings must be at 0.3 NTU or less. 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.

Radioactive Contaminants

Contaminant and Unit of Measurement	Dates of Sampling (Mo./Yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226+228 or combined Radium (pCi/l)	March 2017 & April 2020	N	1.54	ND– 1.54	0	5	Erosion of Natural Deposits

Inorganic Contaminants

Contaminant and Unit of Measurement	Dates of Sampling (Mo./Yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	April 2024	N	0.0072	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	April 2024	N	0.75	N/A	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm
Nitrate (ppm)	April 2024	N	0.028	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	April 2024	N	4.8	N/A	N/A	160	Salt water intrusion, leaching from soil.

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement	Dates of Sampling (Mo./Yr.)	MCL or MRDL Violation	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRD	Likely Source of Contamination
*Chlorine (ppm) (Stage 1)	Jan - Dec 2024	N	0.91	0.72– 1.08	MRDLG= 4	MRD L= 4.0	Water additive used to control microbes
*Haloacetic Acids (five) (HAA5) (ppb)	Feb– Nov 2024	N	24.6	9.1– 40.8**	N/A	MCL = 60	By-product of drinking water disinfection
*Total Trihalomethanes (TTHM) (ppb)	Feb– Nov 2024	N	48.7	17.5– 66.7**	N/A	MCL = 80	By-product of drinking water

****Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.**
Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Total Organic Carbon

Contaminant and Unit of Measurement	Dates of Sampling (Mo./Yr.)	TT Violation Y/N	Lowest Running, Annual Average, Computed Quarterly, of Monthly Removal Ratios	Range of Monthly Removal Ratios	MCLG	MCL	Likely Source of Contamination
Total Organic Carbon (TOC) (ppm)	Jan - Dec 2024	N	1.9	1.0– 1.8	N/A	TT	Naturally present in the environment

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Dates of Sampling (Mo./Yr.)	AL Exceeded Y/N	90 th percentile result	Number of sampling sites exceeding the AL	Range of Tap Sample Results	MCLG	AL	Likely Source of Contamination
*Copper (ppm)	June 2024	N	0.29	0 of 31	ND - 0.52	1.3	1.3	Corrosion of household plumbing systems, erosion of natural deposits, leaching from wood preservatives
*Lead (tap water) (ppb)	June 2024	N	1	0 of 31	ND– 5	0	15	Corrosion of household plumbing systems, erosion of natural deposits.

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. The City of Panama City is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Panama City Utilities Department and Anna Wright at 850-872-3194.Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

The Federal Environmental Protection Agency has revised the Lead and Copper rule for all public drinking water systems. They have mandated that drinking water systems produce an inventory list of all service line material. The service line is the piping that extends from our water main to the customer's meter as well as the piping that extends from the meter to the customer's home. (Name of Water System) has prepared this inventory in accordance with federal regulations. To view this service line inventory, (include instructions on how to access service line inventory), contact (include contact info for rep. of water system) or visit (include link to LSLI).

Oculus link : [https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=32.1714192.1\]&\[profile=Sampling\]](https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=32.1714192.1]&[profile=Sampling])

Corrosion of pipes, plumbing fittings and fixtures may cause metals, including lead and copper, to enter drinking water. To assess corrosion of lead and copper, [name of system] conducts tap sampling for lead and copper at selected sites [insert frequency at which system conducts tap sampling]. The most recent set of lead and copper tap sampling is available for review. To view the lead and copper tap sampling data, contact (include contact info for rep. of water system) or visit (include Oculus link to sampling results).

Oculus link: [https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=32.1706449.1\]&\[profile=Sampling\]](https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=32.1706449.1]&[profile=Sampling])

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 at 800-426-4791.

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:

(A) Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

(B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff and

residential uses.

(D) 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.

(E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In 2024, The Department of Environmental Protection performed a Source Water Assessment (SWA) on Bay County's system. The assessment was conducted to provide information about any potential source of contamination in the vicinity of our surface water intakes. The surface water system is considered to be at high risk because of the many potential sources of contamination in the assessment area. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp or they can be obtained from Bay County Utility Services by calling 850-248-5010.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health. All 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 Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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**Contact us: City of Panama City Utilities Department
Administrative Office: 850-872-3000 M-F, 8:00-5:00
Environmental Laboratory: 850-872-3194 M-F, 7:00-3:30
2226 Michigan Avenue
Panama City, FL 32405**

Thank you for allowing us to continue providing your family with clean, quality water this year. We at the City of Panama City Utilities Department and at Bay County Utility Services work continually to provide top quality water to every tap. We assure that all of our customers help us to protect our water sources, which are the heart of our community, our way of life, and our children's future.