# **Howard County Department of Public Works**



## **Annual Water Quality Report**

Reporting Period January 1, 2017 to December 31, 2017

### **Howard County Drinking Water**



Allan Kittleman, Howard County Executive

Howard County residents deserve and expect high quality drinking water. To make sure that the local water supply meets these standards, the County Bureau of Utilities tests our water regularly. Then we share those results with our residents.

This Annual Water Quality Report provides residents with an overview of where we get our water, the kinds of monitoring we do and the important safety steps we take to safeguard our water. We take the quality of our water very seriously.

Dozens of County employees work throughout the year to ensure that the water the flows from your tap is clean and safe. They not only make sure that the water is available but they also respond during all kinds of weather to make repairs and restore service. I want to thank them for their efforts.



Howard county is pleased to present to you this year's Water Quality Report. This 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 our water suppliers make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water sources are surface water from the Liberty Reservoir on the North Branch of the Patapsco River and the Loch Raven Reservoir on the main stream of the Gunpowder Fall purchased from Baltimore City and surface water from the Patuxent River purchased from the Washington Suburban Sanitary Commission

DEAR VALUED CUSTOMER,

Howard County residents, businesses, and guests continue to enjoy the highest quality drinking water in the region. In response to the historic frigid weather experienced this past winter by the region our well trained staff were on continuous duty for the duration, promptly repairing an historic number of broken water mains and addressing frozen or damaged services. Our core responsibility is to ensure critical water services are reliably provided on a 24/7 basis. Our mission is to provide high quality, safe and dependable drinking water to each of our valued customers. We hope you find this report informative and reassuring. In coordination with our regional water suppliers, the City of Baltimore and the Washington Suburban Sanitary Commission, we constantly strive to deliver the highest quality water supply service. The heightened national focus on the state of critical infrastructure is taken seriously and in Howard County our drinking water systems are adequately funded, expertly assessed for condition, and proactively maintained to the highest standards. Please do not hesitate in contacting your Howard County Bureau of Utilities team at 410-313-4900 for more information, or visit our updated web page at: <a href="https://www.howardcountymd.gov/Departments/Public-Works/">https://www.howardcountymd.gov/Departments/Public-Works/</a>

Art Shapiro, PE, PMP

**Bureau-Of-Utilities** 

Chief, Bureau of Utilities

#### WHY WATER IS TESTED:

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive substances. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, as well as radioactive substances, resulting from the presence of animals or from human activity. All drinking water, including bottled drinking water, may be reasonably 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.

# 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 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, 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.

To ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) sets regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations set limits for contaminants in bottled water that must provide the same protection for public health.

The Maryland Department of the Environment (MDE) has completed a Source Water Assessment of the water supplies that serve the City of Baltimore. The Source Water Assessment Program may be viewed at the MDE web site, <a href="http://www.mde.state.md.us/programs/Water/Water Supply/ConsumerConfidenceReports/Documents/CCR2015/Howard/0130002\_Howard\_County.pdf">http://www.mde.state.md.us/programs/Water/Water Supply/ConsumerConfidenceReports/Documents/CCR2015/Howard/0130002\_Howard\_County.pdf</a>.

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.

#### FOR MORE INFORMATION

If you have any questions about this report or concerning your water utility, please contact Howard County Utilities at 410-313-4900. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Department of Public Works Board meetings. Please call 410-313-2330 for further information about these meetings.

Employees at Howard County Utilities work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

| Contaminant                      | Violation      |             |                     |            |            |             | VID 0130002   |                                | Likely Service of Contembration   |
|----------------------------------|----------------|-------------|---------------------|------------|------------|-------------|---|--------------------------------|---|
| Contaminant                      | Violati<br>Y/N |             | Level<br>Detected   | Rar        | ige        | MCLG        | MCL   | ,                              | Likely Source of Contamination  |
| Iicrobiological Contaminants     |                |             |                     |            |            |             |   |                                |   |
| otal Coliform Bacteria           | N              | N 0.28%     |                     | 0.0-2      | 2.0%       | 0           | presence of coliform bacteria<br>in 5% of monthly samples |                                | Naturally present in the environment  |
| ecal Coliform and                | N              |             | ND                  | C          | )          | 0           | a routine sample  |                                | Human and animal fecal waste  |
| E.coli                           |                |             |                     |            |            |             |   | otal coliform                  |   |
|                                  |                |             |                     |            |            |             |   | d one is also<br>orm or E.coli |   |
|                                  |                |             |                     |            |            |             | recar come  | positive                       |   |
|                                  |                |             | т                   | TST RESIII | TS – OUR S | HPPLIERS    | 2   |                                |   |
|                                  |                | Baltimore C |                     | EST RESCE  |            | on Suburban | ,   |                                |   |
|                                  | A -1-1         | ton Plant   | Mantal all          | - D1       |            | Commission  |   |                                |   |
| Contaminant - Units              | Violation      | Level       | Montebell<br>Viola- | Level      | Violation  | Level       | MCLG  | MCL                            | Likely Source of Contamination  |
| ontammant - Omes                 | Y/N            | Detected    | tion                | Detected   | Y/N        | Detected    |   | WICL                           | Likely Source of Contamination  |
|                                  |                |             | Y/N                 |            |            |             |   |                                |   |
| Iicrobiological Contaminants     |                |             |                     |            |            |             |   | ,                              |   |
| urbidity - NTU                   | N              | 0.09        | N                   | 0.22       | N          | 0.04        | 1.00  | Filtra                         | TT=<br>tion Soil runoff   |
| Radioactive Contaminants         |                |             |                     |            |            |             |   |                                | •   |
| Beta/photon emitters             | N              | <1.5        | N                   | <4         | N          | 4.4         | 0   | 50                             | Decay of natural and man-made deposits  |
| pCi/l                            | N <sup>r</sup> | 4           | N                   |            | N          | -2          | 0   | 1.5                            | Ensaign of notional description   |
| Alpha emitters<br>pCi/l          | N              | <1          | N                   | <2         | N          | <2          | 0   | 15                             | Erosion of natural deposits   |
| norganic Contaminants            |                |             |                     |            |            | ı           |   |                                |   |
| Antimony - ppb                   | N              | <5          | N                   | <5         | N          | ND          | 6   | 6                              | Discharge from petroleum refineries; fire   |
|                                  | 27             |             |                     |            | 3.7        | ,           |   |                                | retardants; ceramics; electronics; solder   |
| Arsenic – ppb                    | N              | <2          | N                   | <2         | N          | ND          | 0   | 10                             | Erosion of natural deposits; runoff from or<br>chards; runoff from glass And electronics    |
|                                  |                |             |                     |            |            |             |   |                                | production wastes   |
| arium – ppm                      | N              | 0.02        | N                   | 0.036      | N          | 0.027       | 2   | 2                              | Discharge of drilling wastes; discharge from  |
| Beryllium – ppb                  | N              | <0.5        | N                   | <0.5       | N          | ND          | 4   | 4                              | metal refineries; erosion of natural deposit  Discharge from metal refineries And coal-     |
| ступпані — рро                   | 14             | \0.3        | IN                  | V.3        | IN         | ND          | 4   | 4                              | burning factories; discharge from electrica   |
|                                  |                |             |                     |            |            |             |   |                                | aerospace, And defense industries   |
| Cadmium                          | N              | < 0.5       | N                   | < 0.5      | N          | ND          | 5   | 5                              | Erosion of natural deposits; runoff from or<br>chards, runoff from glass & electronics pro  |
|                                  |                |             |                     |            |            |             |   |                                | tion wastes   |
| Chromium – ppb                   | N              | <2          | N                   | <2         | N          | ND          | 100   | 100                            | Discharge from steel and pulp mills; erosi  |
| onner – nnm                      | N              | <.002       | N                   | <.002      | N          | 0.01        | 1.3   | AL=1.3                         | natural deposits  |
| Copper – ppm                     | IN             | <.002       | iN                  | <.002      | IN         | 0.01        | 1.3   | AL=1.3                         | Corrosion of household plumbing systems<br>erosion of natural deposits; leaching from       |
|                                  |                |             |                     |            |            |             |   |                                | preservatives   |
| luoride – ppm                    | N              | 0.68        | N                   | 0.73       | N          | 0.7         | 4   | 4                              | Erosion of natural deposits; water additive   |
|                                  |                |             |                     |            |            |             |   |                                | which promotes strong teeth; discharge fr<br>fertilizer and aluminum factories              |
| Lead – ppb                       | N              | <2          | N                   | <2         | N          | ND          | 0   | AL=15                          | Corrosion of household plumbing systems   |
|                                  |                | -0.5        |                     | *0.7       | 37         | 170         | 2   |                                | erosion of natural deposits   |
| Mercury (inorganic) Ppb          | N              | <0.5        | N                   | <0.5       | N          | ND          | 2   | 2                              | Erosion of natural deposits; discharge from<br>refineries and factories; runoff from landfi |
|                                  |                |             |                     |            |            |             |   |                                | runoff from cropland  |
| litrate (as Nitrogen)            | N              | 1.31        | N                   | 1.23       | N          | 0.94        | 10  | 10                             | Runoff from fertilizer use; leaching from   |
| Ppm<br>Jitrite (as Nitrogen)     | N              | < 0.01      | N                   | < 0.01     | N          | < 0.05      | 1   | 1                              | tanks, sewage; erosion of natural deposits  Runoff from fertilizer use; leaching from s     |
| Ppm                              | 14             | .0.01       |                     | -0.01      | 11         |             |   |                                | tanks, sewage; erosion of natural deposits  |
| elenium – ppb                    | N              | <5          | N                   | <5         | N          | ND          | 50  | 50                             | Discharge from petroleum and metal refin  |
|                                  |                |             |                     |            |            |             |   |                                | erosion of natural deposits; discharge fron<br>mines  |
| hallium – ppb                    | N              | <1          | N                   | <1         | N          | ND          | 0.5   | 2                              | Leaching from ore-processing sites; discha  |
|                                  |                |             |                     |            |            |             |   |                                | from electronics, glass, and drug factories   |
| ynthetic Organic Contaminants in |                |             |                     |            |            |             |   |                                |   |
| ,4-D – ppb                       | N              | <1.0        | N                   | <1.0       | N          | ND          | 70  | 70                             | Runoff from herbicide used on row crops   |
| ,4,5-TP (Silvex) - ppb           | N<br>N         | <1.0        | N<br>N              | <1.0       | N<br>N     | ND<br>ND    | 50  | 50                             | Residue of banned herbicide  Runoff from herbicide used on row crops                        |
| alachlor – ppb<br>atrazine – ppb | N<br>N         | <3          | N<br>N              | <3         | N<br>N     | ND<br>ND    | 3   | 3                              | Runoff from herbicide used on row crops  Runoff from herbicide used on row crops            |
| Benzo(a)pyrene – ppb             | N<br>N         | <0.2        | N<br>N              | <0.2       | N<br>N     | ND<br>ND    | 0   | 0.2                            | Leaching from linings of water storage tar  |
| енго(а)ругене – рро              | 14             | ~U.Z        | 14                  | N.2        | 14         | ND          | U   | 0.2                            | distribution lines  |
| Carbofuran - ppb                 | N              | <1.0        | N                   | <1.0       | N          | ND          | 40  | 40                             | Leaching of soil furnigant used on rice and   |
| Chlordane - ppb                  | N              | <2          | N                   | <2         | N          | ND          | 0   | 2                              | alfalfa Residue of banned termiticide   |
| Palapon – ppb                    | N<br>N         | <4.0        | N<br>N              | <2<br><4.0 | N<br>N     | ND<br>ND    | 200   | 200                            | Residue of banned termiticide  Runoff from herbicide used on rights of w                    |
| Di(2-ethylhexyl)                 | N<br>N         | <0.5        | N<br>N              | <0.5       | N<br>N     | ND<br>ND    | 400   | 400                            | Discharge from chemical factories   |
| Adipate - ppb                    | IN             | ~0.3        | IN                  | ₹0.5       | 14         | ND          | 400   | 400                            | Discharge from chemical factories   |

#### KEY TABLE

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

**Non-Detects** (ND) - laboratory analysis indicates that the constituent is not detectable by the analytical instrument used

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 (ug/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10.000,000.000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/I) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

*Picocuries per liter (pCi/L)* - picocuries per liter is a measure of the radioactivity in water.

*Millirems per year (mrem/yr)* - measure of radiation absorbed by the body.

**Million Fibers per Liter (MFL)** - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**Nephelometric Turbidity Unit (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.

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

Maximum Contaminant Level - 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.

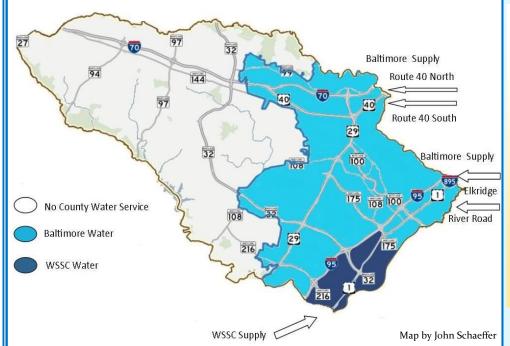
Maximum Contaminant Level Goal - The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

*Variances & Exemptions (V&E)* - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

| Di(2-ethylhexyl) Phthalate - ppb Dibromochloropropane -ppb Dinoseb - ppb Endrin - ppb Ethylene dibromide - ppb Heptachlor - ppb Heptachlor epoxide - ppb Hexachlorobenzene - ppb Hexachlorocyclo- | N<br>N<br>N | <0.96<br><0.02<br><1.0 | N<br>N | <0.96 | N<br>N | ND<br>ND | 0     | 6     | Discharge from rubber and chemical factories                                       |
|---|-------------|------------------------|--------|-------|--------|----------|-------|-------|--|
| Dibromochloropropane -ppb  Dinoseb - ppb  Endrin - ppb  Ethylene dibromide - ppb  Heptachlor - ppb  Heptachlor epoxide - ppb  Hexachlorobenzene - ppb   | N<br>N      |                        | N      | <0.02 | N      | ND       | 0     |       |  |
| Endrin - ppb Ethylene dibromide - ppb Heptachlor - ppb Heptachlor epoxide - ppb Hexachlorobenzene - ppb   | N           | <1.0                   |        |       |        | 1410     | - C   | 0.2   | Runoff/leaching from soil fumigant used on   |
| Ethylene dibromide - ppb  Heptachlor - ppb  Heptachlor epoxide - ppb  Hexachlorobenzene - ppb   |             |                        | N      | <1.0  | N      | ND       | 7     | 7     | Runoff from herbicide used on soybeans and   |
| Ethylene dibromide - ppb  Heptachlor - ppb  Heptachlor epoxide - ppb  Hexachlorobenzene - ppb   |             |                        | N      |       | N      | ND       |       |       | vegetables Residue of banned insecticide   |
| Heptachlor - ppb Heptachlor epoxide - ppb Hexachlorobenzene - ppb   |             | <0.5                   | N<br>N | <0.5  | N<br>N | ND<br>ND | 2     | 2     | Discharge from petroleum refineries  |
| Heptachlor epoxide - ppb<br>Hexachlorobenzene - ppb   |             | <0.05                  |        | <0.05 |        |          | 0     | 0.05  | Residue of banned termiticide  |
| Hexachlorobenzene - ppb   | N           | <0.4                   | N      | <0.4  | N      | ND       | 0     | 0.4   |  |
| **  | N           | <0.2                   | N      | <0.2  | N      | ND       | 0     | 0.2   | Breakdown of heptachlor  |
| Hexachlorocyclo-  | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 1     | Discharge from metal refineries and agricultural chemical factories                |
| pentadiene - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 50    | 50    | Discharge from chemical factories  |
| Lindane-ppb   | N           | <0.2                   | N      | <0.2  | N      | ND       | 0.2   | 0.2   | Runoff/leaching from insecticide used on cattle, lumber, gardens                   |
| Methoxychlor - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 40    | 40    | Runoff/leaching from insecticide used on fruits,<br>vegetables, alfalfa, livestock |
| Oxamyl [Vydate]-ppb   | N           | <1.0                   | N      | <1.0  | N      | ND       | 200   | 200   | Runoff from Landfills; discharge of waste chemi-                                   |
| Pentachlorophenol - ppb   | N           | <0.2                   | N      | <0.2  | N      | ND       | 0     | 1     | Discharge from wood preserving factories   |
| Picloram – ppb  | N           | <2.0                   | N      | <2.0  | N      | ND       | 500   | 500   | Herbicide runoff   |
|   |             |                        |        |       |        |          | -     | -     | Herbicide runoff   |
| Simazine – ppb  | N           | <0.5                   | N      | 1.4   | N      | ND       | 4     | 4     | Herbicide runon  |
| Volatile Organic Contaminants   |             |                        |        |       |        |          |       |       |  |
| Benzene – ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Discharge from factories; leaching from gas<br>storage tanks and Landfills         |
| Carbon tetrachloride - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Discharge from chemical plants And other industrial activities                     |
| Chlorobenzene – ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 100   | 100   | Discharge from chemical and agricultural chemical factories                        |
| o-Dichlorobenzene - ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 600   | 600   | Discharge from industrial chemical factories                                       |
| p-Dichlorobenzene - ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 75    | 75    | Discharge from industrial chemical factories                                       |
| 1,2 – Dichloroethane - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Discharge from industrial chemical factories                                       |
| 1,1 – Dichloroethane - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 7     | 7     | Discharge from industrial chemical factories                                       |
| cis-1,2-Dichloroethene - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 70    | 70    | Discharge from industrial chemical   |
| trans-1,2 Dichloroethene - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 100   | 100   | Factories  Discharge from industrial chemical factories                            |
| Dichloromethane- ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Discharge from pharmaceutical and chemical   |
|   |             |                        |        |       |        |          |       |       | factories  |
| 1,2-Dichloropropane<br>Ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Discharge from industrial chemical factories                                       |
| Ethylbenzene – ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 700   | 700   | Discharge from petroleum refineries  |
| Haloacetic Acids, Total- ppb  | N           | 42.0                   | N      | 37.0  | N      | 43.4     | 0     | 60    | By-product of drinking water chlorination  |
|   | N           |                        | N      |       | N      | ND       |       |       | Discharge from rubber and plastic factories;                                       |
| Styrene – ppb   | IN          | <0.5                   | IN     | <0.5  | IN     | IND      | 100   | 100   | leaching from landfills  |
| Tetrachloroethylene – ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Leaching from PVC pipes; discharge from factories and dry cleaners                 |
| 1,2,4-Trichlorobenzene - Ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 70    | 70    | Discharge from textile-finishing factories   |
| 1,1,1 – Trichloroethane - Ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 200   | 200   | Discharge from metal degreasing sites and other factories                          |
| 1,1,2 -Trichloroethane - Ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 3     | 5     | Discharge from industrial chemical factories                                       |
| Trichloroethene – ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 5     | Discharge from metal degreasing sites and other factories                          |
| TTHM - ppb [Total trihalomethanes]  | N           | 48.0                   | N      | 53.0  | N      | 62.1     | 0     | 80    | By-product of drinking water chlorination  |
| Vinyl Chloride - ppb  | N           | <0.5                   | N      | <0.5  | N      | ND       | 0     | 2     | Leaching from PVC piping; discharge from plastics factories                        |
| Toluene – ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 1000  | 1000  | Discharge from petroleum factories   |
| Xylenes – ppb   | N           | <0.5                   | N      | <0.5  | N      | ND       | 10000 | 10000 | Discharge from petroleum factories; discharge from chemical factories              |

| TEST RESULTS - HOWARD COUNTY—PSWID 0130002 |      |       |                 |         |           |  |  |
|--|------|-------|-----------------|---------|-----------|--|--|
| Volatile Organic Chemicals                 |      |       |                 |         |           |  |  |
| Substance                                  | MCLG | MCL   | Range (LRAA)    | Average | Violation | Major Sources                            |  |
| Total THM's                                | n/a  | 8oppb | 29.1 - 59.6ppb  | 44ppb   | No        | Byproduct of drinking water chlorination |  |
| HAA(5)                                     | n/a  | 6oppb | 20.6 - 41.5 ppb | 34ppb   | No        | Byproduct of drinking water chlorination |  |



#### WHERE YOUR WATER COMES FROM

If you live in the North Laurel area, east of Interstate 95 and south of Patuxent Range Road, your water originates from the Washington Suburban Sanitary Commission in Laurel. If you live anywhere else in Howard County and are connected to the public water supply, your water originates from Baltimore City. As a "Consecutive Water System", Howard County purchases water from Baltimore City and the Washington Suburban Sanitary Commission. Most of the analyses are performed at their water quality laboratories. The table inside this brochure shows the results of monitoring for the period of January 1st to December 31st, 2016.

#### **LEAD AND COPPER TESTING - HOWARD COUNTY**

Water is below detection levels when it leaves the water treatment plant for lead and copper, but lead and copper can be released when the water comes in contact with pipes and plumbing fixtures in homes and buildings that contain lead and/ or copper. The USEPA requires testing of the water distribution system for lead and copper at the tap. Howard County is required to sample 51 sites and of these 51 sites, 90% of the samples must have lead and copper levels less than the Action Level set by EPA, 0.015 mg/l or 15 parts per billion for lead and 1.3 mg/l or 1.3 parts per million for copper. The results of the sampling in 2014 are shown below. Howard County's lead and copper levels are consistently below the Action Level set by EPA. The next scheduled sampling for Lead and Copper will be performed during the summer of 2020. Check out our web page specific to lead in drinking water at: <a href="https://www.howardcountymd.gov/Departments/Public-Works/Bureau-Of-Utilities/Customer-Service-Division/Lead-in-Drinking-Water">https://www.howardcountymd.gov/Departments/Public-Works/Bureau-Of-Utilities/Customer-Service-Division/Lead-in-Drinking-Water</a>

| Contaminant | Action Level | 90 <sup>th</sup> Percentile Value |  |  |  |  |
|-------------|--------------|-----------------------------------|--|--|--|--|
| Lead        | 15 ppb       | o.11 ppb                          |  |  |  |  |
| Copper      | 1.3 ppm      | o ppm                             |  |  |  |  |

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. Howard County's Bureau of Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking 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 EPA Safe Drinking Water Hotline at 1-800-426-4791 or at http://water.epa.gov/drink/info/lead/."

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 1-800-426-4791.

### Waivers

The Maryland Department of the Environment has granted the City of Baltimore monitoring waivers for the following compounds: 2,3,7,8-TCDD (Dioxin), Endothall, Diquat,Glyphosphate, Asbestos and Cyanide.