



2020 Annual Drinking Water Quality Report
 (For period January through December 2019)

HARVEST-MONROVIA
WATER & SEWER AUTHORITY

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We are pleased to present to you this year's Annual Water Quality Report. This report is delivered to you each year to provide information about the quality of water the Authority provides to our customers. Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and Alabama Department of Environmental Management (ADEM) drinking water health standards. We diligently safeguard your water supplies, and once again we are proud to report that our system has not violated any water quality standard.

If you have any questions about this report or concerning your water utility, please contact Mike Oliver at 256-837-1132. 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 meetings. They are held on the second Tuesday of each month at 1:30 p.m. at the water office.

| | |
|----------------------------|---|
| Water Sources | 8 groundwater wells producing from the Tuscumbia-Fort Payne Aquifer |
| Water Treatment | 10 MGD Burwell Treatment Plant: flocculation, filtration, chlorination, fluoridation, coagulation, corrosion control 4.1 MGD Mt Zion Treatment Plant: microfiltration, chlorination, fluoridation, corrosion control |
| Storage Capacity | 7 water storage facilities with a capacity of 11.5 million gallons |
| Population Served | Approximately 51,912 |
| Interconnections | Madison County Water Department, Huntsville Utilities, Madison Water Works Board, and Limestone County Water Authority |
| Water Board Members | Roy McCrary, Chairman Frank Turner, Vice Chairman Tracy Brewer, Secretary |

Water Quality Protection

Harvest-Monrovia Water and Sewer Authority developed a Source Water Assessment plan that will assist in protecting our water sources. The assessment was performed, public notification was completed, and the plan was approved by ADEM. As part of the assessment process, information on potential contaminant sources was defined, and the major sources were ascertained to be existing wells, agricultural run-off and septic tanks. The Assessment is available for review at the water office during regular business hours.

Harvest-Monrovia Water and Sewer Authority routinely completes a water storage facility inspection plan and utilizes a Bacteriological Monitoring Plan. The required chlorine residual is maintained throughout our distribution system to protect your drinking water from possible outside contaminants.

Please help us make these efforts worthwhile by protecting our source water. Carefully follow instructions on pesticides and herbicides you use for your lawn and garden, and properly dispose of household chemicals, paints, and waste oil. We ask that all our customers help us protect our valuable water sources, which are the heart of our community, our way of life, and our children's futures.

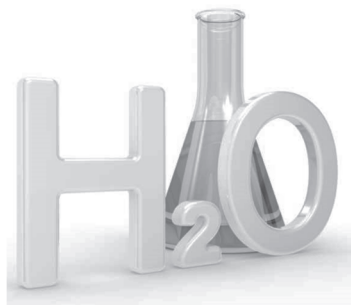
Excellence Awards

At Harvest-Monrovia Water and Sewer Authority, it is our goal to provide clean, safe drinking water to our customers throughout the year, and our staff strives each day to accomplish this goal. Our water system has won many excellence awards in our population-served division:

- 2019 AWPCA Award of Excellence for Ground Water 25,001-50,000 Population
- 2010 & 2011, 2016-2018 AWPCA Best Operated Distribution System
- 2007-2019 EPA and ADEM Optimization Award for Optimized Water Treatment



General Information



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 water poses a health risk. MCL's, defined in a List of Definitions in this report, are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and it 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, storm water run-off, 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.

Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immunocompromised such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants can be particularly at risk from infections. People at risk should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Based on a study conducted by ADEM with the approval of the EPA a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus, monitoring for these contaminants was not required. More information about contaminants to drinking water and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (1-800-426-4791).

Water sources that are surface water or groundwater under the influence of surface water are tested for pathogens such as *Cryptosporidium* at certain intervals determined by the EPA and the ADEM. These pathogens can enter the water from animal or human waste. All test results were well within Federal and State standards. For people who may be immuno-compromised, the document "Guidance for People with Severely Weakened Immune Systems" was developed by the Center for Disease Control and is available online at <http://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=200024LD.txt> or from the Safe Drinking Water Hotline at 1-800-426-4791. This language does not indicate the presence of *Cryptosporidium* in our drinking water. Testing for the following microbiological contaminants was performed on raw water, before any treatment.

| Microbiological Contaminants | Levels Detected | Unit Msmt | MCLG | MCL | Likely Source |
|------------------------------|-----------------|-----------|------|-----|-----------------------------|
| Cryptosporidium | ND | Oocysts/L | 0 | TT | Wildlife and/or human waste |
| Giardia | ND | Cysts/L | 0 | TT | Wildlife and/or human waste |
| E. Coli | ND | #/100mL | 0 | TT | Wildlife and/or human waste |
| Turbidity | 0.02-15.7 | NTU | n/a | n/a | Soil runoff |

Information about Lead

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. Your water system 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.

Use *only* water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead. The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water hotline or at www.epa.gov/safewater/lead.



Monitoring Schedule

We routinely monitor your drinking water for contaminants according to Federal and State laws. The Alabama Department of Environmental Management (ADEM) allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. This report contains results from the most recent monitoring which was performed in accordance with the regulatory schedule. We have learned through our monitoring and testing that some constituents have been detected. We are pleased to report that our drinking water meets or exceeds federal and state requirements.

| Constituents Monitored | Monitored |
|--|-----------|
| Inorganic Contaminants | 2019 |
| Lead/Copper | 2019 |
| Microbiological Contaminants | current |
| Nitrates | 2019 |
| Radioactive Contaminants | 2019 |
| Synthetic Organic Contaminants (including herbicides and pesticides) | 2019 |
| Volatile Organic Contaminants | 2019 |
| Disinfection By-products | 2019 |
| Cryptosporidium (on raw water) | 2017 |
| Unregulated Contaminant Monitoring Rule (UCMR4) Contaminants | 2019 |

| TABLE OF DETECTED DRINKING WATER CONTAMINANTS | | | | | | |
|---|---------------|------------------------------|-----------|---------|----------|---|
| Primary Contaminants | Violation Y/N | Levels Detected | Unit Msmt | MCLG | MCL | Likely Source |
| Chlorine, finished water | NO | 1.2-2.0 | ppm | MRDLG=4 | MRDL=4 | Water additive used to control microbes |
| Total organic carbon | NO | RAA 1.0 ND-1.0 | ppm | RAA<2.0 | TT | Naturally present in the environment |
| Turbidity, filtered water | NO | 0.01-0.13 | NTU | n/a | 0.3 | Soil runoff: Indicator of the effectiveness of filtration |
| Alpha emitters | NO | 2.04 | PCI/l | 0 | 15 | Erosion of natural deposits |
| Barium | NO | 0.02 | ppm | 2 | 2 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Carbofuran | NO | ND-0.53 | ppb | 40 | 40 | Leaching of soil fumigant used on rice and alfalfa |
| Copper | NO | 0.836 ¹ 0 > AL | ppm | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead | NO | ND ² 1 > AL | ppm | 0 | AL=0.015 | Corrosion of household plumbing systems, erosion of natural deposits |
| Mercury (inorganic) | NO | 0.10-0.15 | ppb | 2 | 2 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills or cropland |
| Nitrate (as Nitrogen) | NO | 3.13-3.25 | ppm | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Simazine | NO | ND-0.06 | ppb | 4 | 4 | Herbicide runoff |
| TTHM [Total trihalomethanes] | NO | ND-11.6 | ppb | 0 | 80 | By-product of drinking water chlorination |
| HAA5 [Total haloacetic acids] | NO | ND-6.43 | ppb | 0 | 60 | By-product of drinking water chlorination |
| Unregulated Contaminants | | | | | | |
| Chloroform | NO | 14.7 | ppb | 70 | n/a | Naturally occurring or from discharge or runoff |
| Bromodichloromethane | NO | 4.60 | ppb | 0 | n/a | Naturally occurring or from discharge or runoff |
| Chlorodibromomethane | NO | 0.48 | ppb | 60 | n/a | Naturally occurring or from discharge or runoff |
| Bromoform | NO | 0.10 | ppb | 0 | n/a | Naturally occurring or from discharge or runoff |
| Secondary Contaminants | | | | | | |
| Alkalinity, Total (as CA, CO ₃) | NO | 86-140 | ppm | n/a | n/a | Caused by carbonates, bicarbonates and hydroxides. Phosphates and silicates contribute. |
| Aluminum | NO | 0.03-0.05 | ppm | n/a | 0.2 | Erosion of natural deposits or from water treatment |
| Carbon Dioxide | NO | 30-112 | ppm | n/a | n/a | Naturally present in drinking water; sometimes added as water treatment to adjust pH |
| Chloride | NO | 6.05-7.46 | ppm | n/a | 250 | Naturally present in the environment or from runoff |
| Hardness | NO | 21.2-117 | ppm | n/a | n/a | Naturally occurring in the environment or from treatment |
| Iron | NO | ND-0.07 | ppm | n/a | 0.30 | Naturally present in the environment; erosion of natural deposits; leaching from pipes |
| Magnesium | NO | 1.76-6.60 | ppm | n/a | n/a | Naturally occurring; dissolved minerals |
| Manganese | NO | ND-0.04 | ppm | n/a | 0.05 | Erosion of natural deposits; leaching from pipes |
| Nickel | NO | ND-0.003 | ppm | n/a | n/a | Erosion of natural deposits; leaching from pipes |
| pH | NO | 6.8-7.1 | S.U. | n/a | n/a | Naturally occurring in the environment or from treatment |
| Sodium | NO | 3.85-5.46 | ppm | n/a | n/a | Naturally occurring in the environment |
| Specific Conductance | NO | 74.1-238 | µs/cm | n/a | n/a | Indicates the presence of naturally-occurring ions that conduct electricity. |
| Sulfate | NO | 0.28-2.11 | ppm | n/a | 250 | Naturally present in the environment or from runoff |
| Total Dissolved Solids | NO | 8.00-33.0 | ppm | n/a | 500 | Naturally present in the environment or from runoff |
| Zinc | NO | ND-0.06 | ppm | n/a | 5 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills |

¹ Figure shown is 90th percentile and # of sample sites exceeding Action Level (1.3 ppm) = 0

² Figure shown is 90th percentile and # of sample sites exceeding Action Level (0.015 ppm) = 1

UCMR4

The Fourth Unregulated Contaminant Monitoring Rule (UCMR4) requires some systems to monitor for 30 unregulated contaminants during January 2018 through December 2020 on an assigned schedule. Our assigned schedule was certain weeks during 2018 and 2019. The table below shows the contaminants we were required to monitor and the results of our monitoring.

| UCMR 4 Contaminants | | | | | |
|-----------------------------|-----------|----------------|----------------------------------|-----------|----------------|
| Contaminants | Unit Msmt | Level Detected | Contaminants | Unit Msmt | Level Detected |
| Germanium | ppb | ND | Total permethrin (cis- & trans-) | ppb | ND |
| Manganese | ppb | ND-8.75 | Tribufos | ppb | ND |
| Alpha-hexachlorocyclohexane | ppb | ND | 1-butanol | ppb | ND |
| Chlorpyrifos | ppb | ND | 2-methoxyethanol | ppb | ND |
| Dimethipin | ppb | ND | 2-propen-1-ol | ppb | ND |
| Ethoprop | ppb | ND | Butylated hydroxyanisole | ppb | ND |
| Oxyfluorfen | ppb | ND | O-toluidine | ppb | ND |
| Profenofos | ppb | ND | Quinoline | ppb | ND-0.05 |
| Tebuconazole | ppb | ND | | | |
| Cyanotoxins | | | Cyanotoxins | | |
| Anatoxin-A | ppb | ND | Microcystin-LY | ppb | ND |
| Cylindrospermopsin | ppb | ND | Microcystin-RR | ppb | ND |
| Microcystin-LA | ppb | ND | Microcystin-YR | ppb | ND |
| Microcystin-LF | ppb | ND | Nodularin | ppb | ND |
| Microcystin-LR | ppb | ND | Total Microcystins | ppb | ND |
| Distribution Samples | | | Distribution Samples | | |
| HAA5 | ppb | ND-2.19 | Total organic carbon (TOC) | ppb | ND-1020 |
| HAA6Br | ppb | ND-2.16 | Bromide | ppb | ND-25.7 |
| HAA9 | ppb | ND-2.19* | | | |

* The level 2.19 ppb occurred on Dichoroacetic acid, which is part of each of the 3 HAA "groups" tested.
All other HAA levels detected were below 2.19 ppb.

DEFINITIONS: We have provided the definitions below to help you better understand terms and abbreviations used in this report.

Action Level- the concentration of a contaminant that, if exceeded, triggers treatment or other requirements for a water system.

ADEM- Alabama Department of Environmental Management.

AWPCA- Alabama Water and Pollution Control Association.

Coliform Absent (ca)- Laboratory analysis indicates that the contaminant is not present.

Disinfection byproducts (DBPs)- are formed when disinfectants used in water treatment plants react with bromide and/or natural organic matter present in the source water. Disinfection byproducts for which regulations have been established include trihalomethanes (TTHM), haloacetic acids (HAA5), bromate, and chlorite.

Distribution System Evaluation (DSE)-a four quarter study conducted by water systems to identify distribution system locations with high concentrations of trihalomethanes (THMs) and haloacetic acids (HAAs).

EPA- Environmental Protection Agency.

Maximum Contaminant Level-(mandatory language) 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-(mandatory language) 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

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.

Micrograms per liter (ug/L) – Equivalent to parts per billion (ppb) since one liter of water is equal in weight to one billion micrograms.

Milligrams per liter (mg/L) – Equivalent to parts per million

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

Nephelometric Turbidity Unit (NTU)-a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Non-Detects (ND)- laboratory analysis indicates that the constituent is not present above detection limits of lab equipment.

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

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

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.

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

RAA-Running annual average

Running Annual Average (RAA)-yearly average of results at each specific sampling site.

Standard Units (S.U.)-pH of water measures the water's balances of acids and bases and is affected by temperature and carbon dioxide gas. Water with less than 6.5 could be acidic, soft, and corrosive. A pH greater than 8.5 could indicate that the water is hard.

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

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

The following table is a list of Primary Drinking Water Contaminants, Unregulated Contaminants, and Secondary Contaminants for which our water system routinely monitors according to our regulatory schedule. These contaminants were not detected in your drinking water unless they are listed in the Table of Detected Drinking Water Contaminants.

| STANDARD LIST OF PRIMARY DRINKING WATER CONTAMINANTS | | | | | |
|--|-------------------------|-------------------------|---------------------------------------|-----|--------------|
| Contaminant | MCL | Unit of Msmt | Contaminant | MCL | Unit of Msmt |
| Bacteriological Contaminants | | | trans-1,2-Dichloroethylene | 100 | ppb |
| Total Coliform Bacteria | <5% | present/absent | Dichloromethane | 5 | ppb |
| Fecal Coliform and E. coli | 0 | present/absent | 1,2-Dichloropropane | 5 | ppb |
| Turbidity | TT | NTU | Di (2-ethylhexyl)adipate | 400 | ppb |
| Cryptosporidium | TT | Calc.organisms/l | Di (2-ethylhexyl)phthalate | 6 | ppb |
| Radiological Contaminants | | | Dinoseb | 7 | ppb |
| Beta/alpha photon emitters | 4 | mrem/yr | Dioxin [2,3,7,8-TCDD] | 30 | ppq |
| Alpha emitters | 15 | pCi/l | Diquat | 20 | ppb |
| Combined radium | 5 | pCi/l | Endothall | 100 | ppb |
| Uranium | 30 | pCi/l | Endrin | 2 | ppb |
| Inorganic Chemicals | | | Epichlorohydrin | TT | TT |
| Antimony | 6 | ppb | Ethylbenzene | 700 | ppb |
| Arsenic | 10 | ppb | Ethylene dibromide | 50 | ppt |
| Asbestos | 7 | MFL | Glyphosate | 700 | ppb |
| Barium | 2 | ppm | Heptachlor | 400 | ppt |
| Beryllium | 4 | ppb | Heptachlor epoxide | 200 | ppt |
| Cadmium | 5 | ppb | Hexachlorobenzene | 1 | ppb |
| Chromium | 100 | ppb | Hexachlorocyclopentadiene | 50 | ppb |
| Copper | AL=1.3 | ppm | Lindane | 200 | ppt |
| Cyanide | 200 | ppb | Methoxychlor | 40 | ppb |
| Fluoride | 4 | ppm | Oxamyl [Vydate] | 200 | ppb |
| Lead | AL=15 | ppb | Polychlorinated biphenyls | 0.5 | ppb |
| Mercury | 2 | ppb | Pentachlorophenol | 1 | ppb |
| Nitrate | 10 | ppm | Picloram | 500 | ppb |
| Nitrite | 1 | ppm | Simazine | 4 | ppb |
| Selenium | .05 | ppm | Styrene | 100 | ppb |
| Thallium | .002 | ppm | Tetrachloroethylene | 5 | ppb |
| Organic Contaminants | | | Toluene | 1 | ppm |
| 2,4-D | 70 | ppb | Toxaphene | 3 | ppb |
| Acrylamide | TT | TT | 2,4,5-TP(Silvex) | 50 | ppb |
| Alachlor | 2 | ppb | 1,2,4-Trichlorobenzene | .07 | ppm |
| Benzene | 5 | ppb | 1,1,1-Trichloroethane | 200 | ppb |
| Benzo(a)pyrene [PAHs] | 200 | ppt | 1,1,2-Trichloroethane | 5 | ppb |
| Carbofuran | 40 | ppb | Trichloroethylene | 5 | ppb |
| Carbon tetrachloride | 5 | ppb | Vinyl Chloride | 2 | ppb |
| Chlordane | 2 | ppb | Xylenes | 10 | ppm |
| Chlorobenzene | 100 | ppb | Disinfectants & Byproducts | | |
| Dalapon | 200 | ppb | Chlorine | 4 | ppm |
| Dibromochloropropane | 200 | ppt | Chlorine Dioxide | 800 | ppb |
| 1,2-Dichlorobenzene | 1000 | ppb | Chloramines | 4 | ppm |
| 1,4-Dichlorobenzene (para) | 75 | ppb | Bromate | 10 | ppb |
| o-Dichlorobenzene | 600 | ppb | Chlorite | 1 | ppm |
| 1,2-Dichloroethane | 5 | ppb | HAA5 [Total haloacetic acids] | 60 | ppb |
| 1,1-Dichloroethylene | 7 | ppb | THM [Total trihalomethanes] | 80 | ppb |
| cis-1,2-Dichloroethylene | 70 | ppb | Total organic carbon | TT | ppm |
| LIST OF SECONDARY CONTAMINANTS | | | | | |
| Alkalinity, Total (as CA, CO ₃) | Copper | Manganese | Specific Conductance | | |
| Aluminum | Corrosivity | Odor | Sulfate | | |
| Calcium, as Ca | Foaming agents (MBAS) | Nickel | Total Dissolved Solids | | |
| Carbon Dioxide | Hardness | pH | Zinc | | |
| Chloride | Iron | Silver | | | |
| Color | Magnesium | Sodium | | | |
| LIST OF UNREGULATED CONTAMINANTS | | | | | |
| Aldicarb | Chloroethane | Hexachlorobutadiene | Propachlor | | |
| Aldicarb Sulfone | Chloroform | 3-Hydroxycarbofuran | N-Propylbenzene | | |
| Aldicarb Sulfoxide | Chloromethane | Isopropylbenzene | Propachlor | | |
| Aldrin | O-Chlorotoluene | p-Isopropyltoluene | 1,1,1,2-Tetrachloroethane | | |
| Bromoacetic Acid | P-Chlorotoluene | M-Dichlorobenzene | 1,1,2,2-Tetrachloroethane | | |
| Bromobenzene | Dibromochloromethane | Methomyl | Tetrachloroethene | | |
| Bromochloromethane | Dibromomethane | Methomyl | Trichloroacetic Acid | | |
| Bromodichloromethane | 1,1-Dichloroethane | Methylene chloride | 1,2,3-Trichlorobenzene | | |
| Bromoform | 1,3-Dichloropropane | Methyl tert-butyl ether | Trichloroethene | | |
| Bromomethane | 2,2-Dichloropropane | Metolachlor | Trichlorofluoromethane | | |
| Butachlor | 1,1-Dichloropropene | Metribuzin | 1,2,3-Trichloropropane | | |
| N-Butylbenzene | 1,3-Dichloropropene | MTBE | 1,2,4-Trimethylbenzene | | |
| Sec-Butylbenzene | Dicamba | Naphthalene | 1,3,5-Trimethylbenzene | | |
| Tert - Butylbenzene | Dichlorodifluoromethane | 1-Naphthol | | | |
| Carbaryl | Dieldrin | Paraquat | | | |