



dcwater.com DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



Ensuring quality tap water is a shared responsibility of DC Water and individual residents. When water flows from the treatment plant to your tap, many factors in the distribution system and household plumbing can affect your water quality.

The US Army Corps of Engineers Washington Aqueduct is responsible for drinking water treatment in the District. DC Water purchases water from the Washington Aqueduct and delivers it to households and businesses in the District.

DC Water Contact Numbers

Customer Service: 202-354-3600

24-Hour Command Center: 202-612-3400

Drinking Water Division: 202-612-3440

Si usted necesita la versión en español de este panfleto por favor llamar al: **202-787-2200.**

 \ldots see page 13 for additional contacts and valuable resources >

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HOUSEHOLD WATER QUALITY TIPS

Flush cold taps when household water is not used for several hours

Run cold water taps for two minutes before using water for drinking and cooking. When water sits in your pipes for long periods of time, water quality can decline.

Do not use hot tap water for drinking and cooking

Hot water dissolves contaminants and may contain metals, sediment and bacteria that build up in the water heater. If you have household lead sources, hot water can cause lead to release in your drinking water.

Routinely replace filter cartridges

Bacteria and metals can build up in filter cartridges. Be sure to follow the manufacturer's instructions for filter replacement.

Replace old household plumbing, lead service lines and potential lead sources

Replace galvanized plumbing with copper pipes and install "lead-free" plumbing fixtures that contain 0.25 percent lead or less. After installation, flush cold water taps for five minutes once a day for three days.

Routinely clean faucet strainers

Sediment and metals can collect in the aerator screen located at the tip of your faucets. Replace aerators that are in poor condition. These are available at local hardware stores.

 \ldots see page 4 on how to clean faucet aerators >

Drain your water heater annually

Sediment, bacteria and metals can build up in the water heater tank. This can impact household water quality and water pressure.

 \ldots see page 5 on how to drain your water heater >

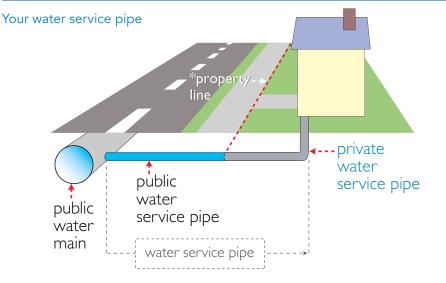








HOUSEHOLD PLUMBING



The water service pipe connects the water main to your household plumbing. The water service pipe is owned by the property owner. However, under certain conditions, DC Water is authorized to repair, maintain or renew the portion of the service pipe in public space. Maintenance of household plumbing and the portion of the service pipe on private property is the exclusive responsibility of the property owner.

The material of water service pipes vary from home to home in the District. A water service pipe may not be the same material on public and private property. DC Water maintains records of water service pipes in public space. This historical data may be incomplete and may not include information about the service pipe material on private property.

Some District households still have lead service pipes and pipe replacement is strongly encouraged. Property owners who voluntarily choose to replace their lead service pipe can participate in DC Water voluntary lead service pipe replacement program. DC Water will coordinate the replacement of the lead service pipe in public space when a property owner replaces the service pipe on private property.

For information about your water service pipe or lead pipe replacement, contact DC Water Customer Service at 202-354-3600.

Types of water pipes

Follow the guidance below or contact a licensed plumber to determine the material of your water pipes. To identify the material of your service pipe material on private property, check your household water service connection, typically located in the basement.

Homeowners should identify and replace old household pipes, particularly galvanized plumbing and sources of lead. The type of household plumbing can vary throughout your household.

Galvanized

A dull, silver-gray color. Use a magnet - strong magnets will typically cling to galvanized pipes.



The color of a copper penny.



Plastic

White, rigid pipe that is joined to water supply piping with a clamp.

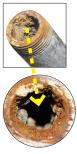
Lead

A dull, silver-gray color that is easily scratched with a coin. Use a magnet - strong magnets will not cling to lead pipes.



Galvanized Plumbing & Impacts on Water Quality

Galvanized pipes are old, iron pipes that were installed in many homes built before the 1960s. Over many years, old, corrosion scales build up inside the walls of galvanized pipes.



These pipes can cause discolored water and pressure issues. Galvanized pipes can also release lead in water if you have, or ever had, a lead service pipe. When lead is released from a lead service pipe and passes through galvanized plumbing (particularly over decades of use), lead can accumulate on the inside, corroded walls of this plumbing. Lead release from galvanized pipes can vary from home to home and can continue to occur even after a lead service pipe is replaced.

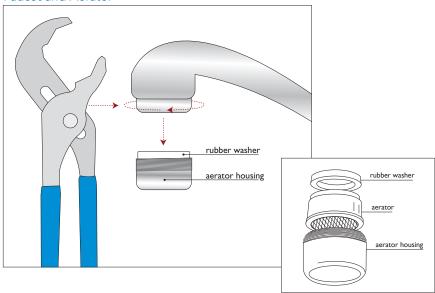


HOW TO CLEAN FAUCET AERATORS

Aerators are located at the tip of household faucets and have a screen that may collect particles and sediment (mineral or rust buildup). Fully remove and clean aerators every three months, and install new aerators annually. Aerators are available at your local hardware store.

- 1. Gather an old toothbrush and a bowl of white vinegar. You may also need a wrench.
- 2. Cover sink drain to prevent losing any aerator parts.
- 3. Unscrew the aerator gently and separate the individual parts: rubber washer, aerator with screen, and aerator housing.
- 4. Soak the parts in white vinegar for a few minutes.
- 5. Scrub aerator screen and other parts with the toothbrush to remove any particles.
- 6. Install a new aerator if any parts are in poor condition or if the rubber washer is disintegrated.
- 7. Reassemble the aerator parts and screw aerator onto faucet.
- 8. Repeat process for all household faucets. All faucets should have an aerator installed, except for faucets with mounted filters attached to the tap.

Faucet and Aerator



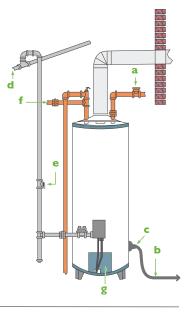
HOW TO DRAIN YOUR WATER HEATER

Drain your water heater annually.

Follow the steps below or contact a licensed plumber.

- Turn "off" the water heater by following instructions in the user manual (instructions typically printed on hot water tank). Wait two hours to allow the heater to cool down. Caution: Be sure the pilot light or burner is extinguished on gas heaters and the heating coils are off on electric heaters.
- 2. Close cold water supply valve (a).
- Connect a hose (b) to the drain valve (c) and place the hose discharge end into an area where water may flow freely.
- 4. Open any household hot water faucet.
- 5. Open the drain valve (c) and allow the tank to completely drain. Caution: Hot water may be released from the drain hose - keep away from children and pets. Note: If the drain valve clogs, slowly open the cold water supply valve (a). Close the valve when the clog is removed. If the problem persists, contact a licensed plumber.
- 6. Close the household hot water faucet that was opened in Step 4.
- 7. Slowly reopen the cold water supply valve (a) and wait at least five minutes or until no sediment is observed at the hose discharge end.
- 8. Close the drain valve (c).
- 9. Remove hose (**b**).
- 10. Open the household hot water faucet that was closed in Step 6. When the water begins flowing, close hot water faucet.
- Turn "on" the water heater by following instructions in the user manual (instructions typically printed on hot water tank).
- 12. Set the water heater temperature at 60°C (140°F) to minimize bacterial growth and maximize energy efficiency. Refer to user manual for adjusting heat settings. The heat adjustment dial for most heaters is located on the gas or electric supply line near the bottom of the water heater.

Diagram of a gas water heater. Electric water heater will vary slightly.



- a Cold water supply valve
- **b** Drain hose
- c Drain valve
- d Gas supply
- e Gas supply shut off valve
- f Hot water outlet
- g Removable door for access to burner and pilot light

	WHAT-TO-DO	 Iron in water is not a health risk. Flush cold water taps for 15 minutes. Do not use hot water until water clears. If you experience discolored water from your hot water tap for several hours, flush your water heater. Do not do laundry. If discoloration occurs during laundry, do not dry clothes. Rewash clothes to avoid stains. Replace old household plumbing, particularly galvanized pipes. 	 Air bubbles and minerals in water are not a health risk. Fill a glass with water, if the cloudiness disappears from bottom to top in a few minutes, it is air bubbles. If cloudiness settles to the bottom or does not clear, it is likely calcium or phosphate. 	 Copper in water is not a health risk. After installing new household pipes or fixtures, flush cold water taps for five minutes at a high flow rate once a day for three days or until water clears. Replace old copper plumbing. 	 Calcium in water is not a health risk. Place the white material in a small amount of distilled vinegar. Calcium particles will bubble or dissolve within 24 hours. Plastic particles will not dissolve. Clean aerators. Flush water heater - contact the manufacturer if plastic particles continue to appear in water. 	 Replace gaskets and O-rings with chloramine-resistant materials. Routinely replace filter cartridges. Clean aerators. Flush water heater - contact the manufacturer if plastic particles continue to appear in water. 	 Fill a glass halfway with tap water and smell the water in a different room. If the odor is no longer present, the odor is likely from the sink drain, not the tap water. Pour 1/2 cup of bleach or disinfection product down the drain to remove debris and odor. Repeat if necessary. If odor is from the hot tap water, flush water heater. 	 Chlorine in water is not a health risk and is routinely monitored to ensure levels meet drinking water standards. However, at times you may notice an increase in chlorine taste and odor. Flush cold water tap for two minutes. Refrigerate a pitcher of cold tap water to allow the chlorine odor to dissipate. Use a pitcher-style or faucet-mount filter to remove chlorine taste and odor. 	 Flush cold water taps after installing new household pipes or fixtures. After installing new household pipes or fixtures, flush cold water taps for five minutes once a day for three days or until water clears. 	 Calcium in water is not a health risk. Commercial products are available to remove white residue. Flush water heater. 	 Pink biofilm is not a health risk for healthy individuals. Immune compromised individuals should seek advice from a physician. Disinfect and scrub affected areas. Keep surfaces dry. The presence of biofilm is difficult to permanently remove. During warmer months, routine cleaning may be necessary. Fix dripping faucets and showerheads.
		 Sediment or rust from old household pipes or water mains, particularly iron or galvanized pipes. Temporary changes in flow (hydrant flushing) or pipe disturbances (construction or a water main break) can distupt older pipes and cause discoloration. 	 Air bubbles in household pipes from changes in water temperature or construction. In cold weather, water travels from water mains into warmer household pipes, causing air bubbles to form and release at the tap. Construction can also allow air to enter the pipes. Minerals in water - calcium or phosphate. 	 Copper plumbing corrosion. Newly installed plumbing can release metals in water. 	 Calcium build up in the water heater can collect in faucet aerators and appear in tap water. White particles can be visible in ice cubes made with tap water. Water heater - dip tube is made of a nontoxic plastic material that can break apart, collect in faucet aerators and appear in tap water. 	 Rubber materials from plumbing gaskets or O-rings. Carbon water filter cartridges. Iron or manganese can release from old pipes after construction or a water main break. 	 Bacteria growth in the sink drain or water heater. Debris can build up in the u-shaped plumbing beneath the sink and create an odor at the tap. 	 Chlorine and chloramine (chlorine + ammonia) are used to disinfect drinking water. When chlorine interacts with debris and bacteria in pipes, it may cause a stronger odor. 	 Metal release in water - newly installed or old plumbing can release metals in water. 	 Commonly appears in showers and kitchenware from dissolved minerals in water (water hardness), such as calcium and phosphate. Typically, water hardness is higher during warmer months. Calcium and phosphate can build up in the water heater and on household surfaces. 	 Biofilm (non-harmful bacteria) that is airborne and spreads easily in warm, moist environments. Can appear as pink, orange or yellow. Bacteria can grow in water heaters and contribute to biofilm growth on wet surfaces. If the water heater temperature is not maintained at 60°C (140°F), bacteria can grow.
	ISSUE	Brown Red Orange Yellow	Cloudy Milky	Green Blue	White Particles	Black Particles	Sulfur Sewer	Chlorine	Metallic	White Residue	Pink Stains
:			согов		SELICLES	ЯДЧ	2	TASTE / ODOF		Eß	НТО

IDENTIFYING WATER QUALITY ISSUES

HOUSEHOLD FILTERS

Water Filters

Various styles and types of water treatment devices are certified for household use. These devices can remove a broad range of contaminants from water and minimize taste and odor issues. You should choose the type of filter that best fits your needs.

Certified Filters

 Any type of water treatment device that you choose should meet National Sanitation Foundation (NSF) standards.*



Types of Water Filters

- Various types of water treatment technologies are available, including filtration, reverse osmosis, ultraviolet treatment and softeners.
- Various styles of devices are available, including point-of-entry (POE) and point-of-use (POU).
- We recommend point-of-use filters, such as faucet mounts and pitcher-style.

Water Filter Maintenance

- It is important to routinely replace filter cartridges according to the manufacturer's instructions. Over time, a filter can accumulate metals and bacteria.
- Water filters and cartridges can vary in their longevity (length of use) and replacement costs.

*National Sanitation Foundation (NSF) Standards

NSF certifies water treatment technologies. When purchasing a treatment device, be sure the packaging lists 1) NSF-certification and 2) the specific contaminant(s) you wish to minimize in your water. A device may meet NSF standards, but this does not mean the filter is certified to remove or reduce every contaminant. For example, a filter may be certified to meet NSF 53 for reducing turbidity, but may not be certified to remove lead.

NSF Standard 53

 Health Effects
 Includes lead, asbestos, chemical, turbidity and cyst reductions.
 NSF Standard 42

 Aesthetic Effects
 Includes taste, odor, chlorine and particulate reductions.

NSF Resources

- General Info nsf.org or 1-800-673-8010
- Contaminant Guide & Home Water Treatment Devices Guide nsf.org/consumer/drinking_water
- Drinking Water Treatment Product
 Database nsf.org/Certified/DWTU

DRINKING WATER AND LEAD

Our Drinking Water

1. Where does drinking water come from? Our drinking water is drawn from the Potomac River by the Washington Aqueduct. 2. Who treats drinking water? The Washington Aqueduct is responsible for water treatment. 3. Who distributes drinking water? PUBLIC WATER MAIN DC Water distributes the water to homes and businesses. 4. Where can lead be found?



PUBLIC

WATER MAIN

PUBLIC / PRIVATE SERVICE PIPE

Lead can enter your water if you have a lead service pipe or household plumbing with lead.

Drinking Water and Lead continued p.10

DRINKING WATER AND LEAD continued

Sources of Lead in Water

Minimizing Lead in Drinking Water

A lead service pipe

 This pipe connects the water main in the street to your household plumbing. The material of water service pipes can vary and some households still have lead service pipes. Lead service pipes were installed until the mid-1950s.

Lead solder

• Connects pipes in household plumbing. Lead solder was used in plumbing prior to 1987.

Brass faucets, valves or fittings

 Almost all faucets, valves and fittings have brass components that contain lead. Until 2014, brass faucets and fittings sold in the United States and labeled "lead-free" could contain up to eight percent lead. Replace faucets and fittings with "leadfree" plumbing fixtures that contain 0.25 percent lead or less.

Galvanized iron pipes

• Old, corroded pipes that can release lead in water if you have, or once had, a lead service pipe. Galvanized pipes were installed in many homes prior to the 1960s.

Test your water for lead

- DC Water offers lead testing to help residents identify potential household lead sources.
- To request a test kit, contact the Drinking Water Division at 202-612-3440.

Remove lead sources

- Replace a lead service pipe with copper pipe. For information about DC Water's Voluntary Lead Service Pipe Replacement Program contact Customer Service at 202-354-3600.
- Replace household galvanized plumbing.
- Install lead-free plumbing fixtures that contain 0.25 percent or less lead.

Use filtered tap water

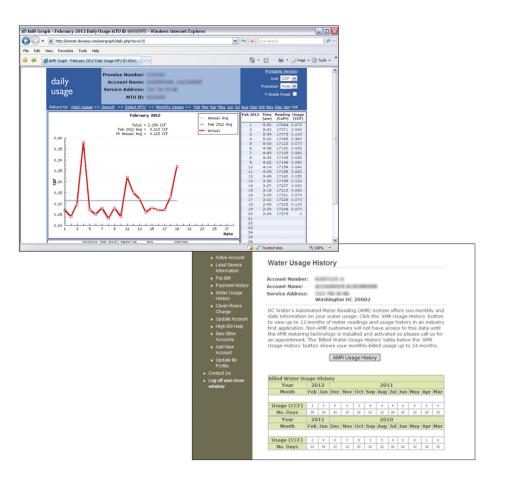
- Pregnant or nursing women and children under age six should use filtered tap water for drinking and cooking until all sources of lead in drinking water have been removed. This includes using filtered water for preparing infant formula, beverages and ice.
- Be sure to select a filter certified to meet NSF Standard 53 for lead removal. The filter package should specifically list the device as certified for removing the contaminant "lead."

HUNA

High Usage Notification Alerts (HUNA)

Track your daily water usage online and receive free notifications when your household water usage spikes. High Usage Notification Alerts (HUNA) can alert customers of household leaks or other plumbing problems, including running toilets and ruptured washing machine hoses, and may help you avoid a high monthly water bill.

DC Water customers are automatically enrolled in the HUNA program if an account has a valid telephone number or email address. You can modify notification settings to include telephone, email and text messaging. Manage HUNA preferences by accessing your account at dcwater.com and selecting "water usage history." Customers can also contact Customer Service at 202-354-3600 or custserv@dcwater.com.



WATER CONSERVATION TIPS

Toilets

- Check for leaks by simply adding food coloring to the toilet tank. If color appears in the toilet bowl within 15 minutes, you have a leak. Be sure to flush immediately to avoid staining.
- Toilet flappers are common sources of leaks. Replacements flappers are available at local hardware stores.
- Install high-efficiency WaterSense toilets www.epa.gov/watersense.

Faucets and showerheads

- Repair dripping faucets and showerheads and save more than 3,000 gallons per year.
- Install low-flow aerators on all household faucets.
- Install high-efficiency WaterSense showerheads and faucets.
- Take a five-minute shower (10-25 gallons) instead of a bath (70 gallons).
- Turn off the water while brushing your teeth and save three gallons per minute.

Laundry machines and dishwashers

- Install high-efficiency, ENERGY STAR units that use 50 percent less water and electricity.
- Wash only full loads of dishes and clothes or lower the water settings for smaller loads.

CONTACTS AND VALUABLE RESOURCES



Customer Service / Billing 202-354-3600

Drinking Water 202-612-3440

External Affairs 202-787-2200

24-Hour Emergency Hotline 202-612-3400

drinkingwater@dcwater.com

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TAP WATER AND YOUR PET FISH

Chloramine (chlorine + ammonia) is a common drinking water disinfectant used to treat District tap water. Disinfection is an important step in ensuring tap water is safe for humans.

- Chloramine is safe for humans, but can be harmful to fish.
- Aquatic pet owners should remove disinfectants before adding tap water to an aquarium.
- To discuss appropriate chemical additives and water treatment options for fish tanks or ponds, contact your local pet store.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

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dcwater.com

fpo. please place the FSC logo here (PMS 369 if possible) and space with others evenly. thanks





