

Adding Phosphate to

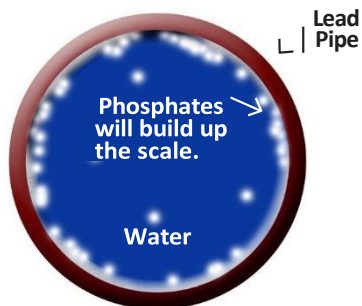
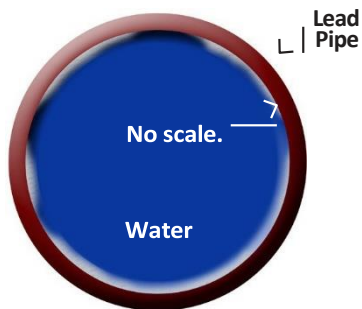
Sun Valley PSD

January 27, 2023

Why is there lead in some homes' water?

- Lead pipes, solder, and faucets used to be common. We now know that lead can harm our health.
- Homes built before 1987 are more likely to have lead service lines and pipes. Some faucets and certain kinds of solder could also have lead in them, even those installed recently.
- The lead found in tap water in homes is likely from these older pipes, solder, and faucets.
- Replacing old pipes, service lines, and faucets is the only sure way to limit the lead in your tap water.
- New pipes, solder, and faucets should meet EPA lead-free standards.

Why are we putting phosphate in the water?



- Over the years, minerals in our water have built up inside our water pipes.
- This mineral build-up is called scale.
- This scale helps to keep a lot of lead from the pipes out of our water.
- If something happens to the scale and the water can touch the pipes, lead can get into the water.
- Adding phosphate to the water helps build and maintain scale by collecting on the sides of the pipes and sticking to the metal.

What is Phosphoric Acid?

Although there is some corrosion control in the water, implementation of phosphate will help build up and maintain better scale. To get the phosphate needed for this to work, the Clarksburg Water Board will be adding a chemical called *phosphoric acid* to its water. Phosphoric acid is a common food ingredient in things like cola or juice. Sun Valley PSD currently purchases your drinking water from the Clarksburg Water Board.

The phosphoric acid will quickly dissolve in the water and break down into two parts - hydrogen and phosphate. Hydrogen will become a part of the water and the leftover phosphate will settle out and stick to the walls of the pipes - building up scale like in the picture above.

Learn About Phosphate

- Phosphorus is a natural mineral that your body needs. It works with calcium to keep your bones strong and healthy.
- Phosphate is a type of salt that has phosphorus in it.
- Phosphate is being added to the water to help put more scale in the pipes.
- The WVDHHR, and the EPA worked together to find how much phosphate is needed in the water going into homes.
- Most people likely already eat and drink more phosphate in everyday food than the very small amount that will be found in the tap water.
- Continue to use water filters (if applicable) that remove lead until further notice.



If you have questions about the phosphate being added to Sun Valley PSD's water, please call the Sun Valley PSD at (304) 623-9609.

If you have questions about phosphate and your health, please call WVDHHR at 1-800-642-8589.