

Frequently asked questions about the chlorine dioxide pilot project

Q: What is chlorine dioxide?

A: Chlorine dioxide is an EPA registered chemical compound used to remove impurities in water. By removing these impurities, it limits the production of unwanted byproducts such as trihalomethanes.

Q: Did DEP approve Pluris to use chlorine dioxide as a disinfectant at the water plant in Wedgefield?

A: DEP approved Pluris to conduct a pilot project using chlorine dioxide in an effort to reduce the production of trihalomethanes in Wedgefield's water.

Q: What is a pilot study?

A: A pilot study evaluates proven technology to determine its effectiveness in a specific application. In this case, chlorine dioxide is already proven elsewhere in other applications. The Pluris pilot study will determine whether chlorine dioxide is an effective solution to the particular challenges posed by Wedgefield's water.

Q: Who will conduct the pilot study at Pluris?

A: The product manufacturer and a licensed professional engineer will be onsite to direct Pluris staff for the duration of the pilot study to ensure that the product is properly prepared and applied. The manufacturer, Twin Oxide (<http://www.twinoxide.us/>), has experience conducting similar projects in the U.S., Europe and Australia.

Q: Is Wedgefield the first to try chlorine dioxide?

A: Chlorine dioxide has been used for decades to treat water. Today, chlorine dioxide is commonly used prior to chlorination of drinking water to destroy natural water impurities that would otherwise produce [trihalomethanes](#) on exposure to free chlorine. In Central Florida, chlorine dioxide is being tried in another pilot project as a primary disinfectant in another public water supply in Volusia County (Magnolia Village). The Magnolia Village project is a three-month pilot begun October 26, 2016.

Q: What are the regulations for chlorine dioxide as a disinfectant?

A: Same stringent regulations as with all methods of disinfection.