

The Waterloo EC-P

Permanently and cost-effectively removes **90-99%** of phosphorus from septic systems by mimicking natural iron-phosphate mineralization soil processes.

Available upgrade for *all* Waterloo Biofilter advanced wastewater treatment systems



Phosphorus is a nutrient naturally found in human wastewater. Excess phosphorus in surface waters can result in algae blooms and lake eutrophication. Not only can this be a nuisance and interfere with the enjoyment of lakes - but serious health and ecosystem problems can result due to blue-green algae toxins and reduced oxygen levels that fish and other organisms rely on.

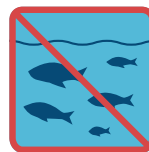
Excess phosphorus in freshwater lakes can:



Limit Recreation Activities such as Swimming, Boating, and Fishing



Lower Property Values by Impairing Quality of Lake Water



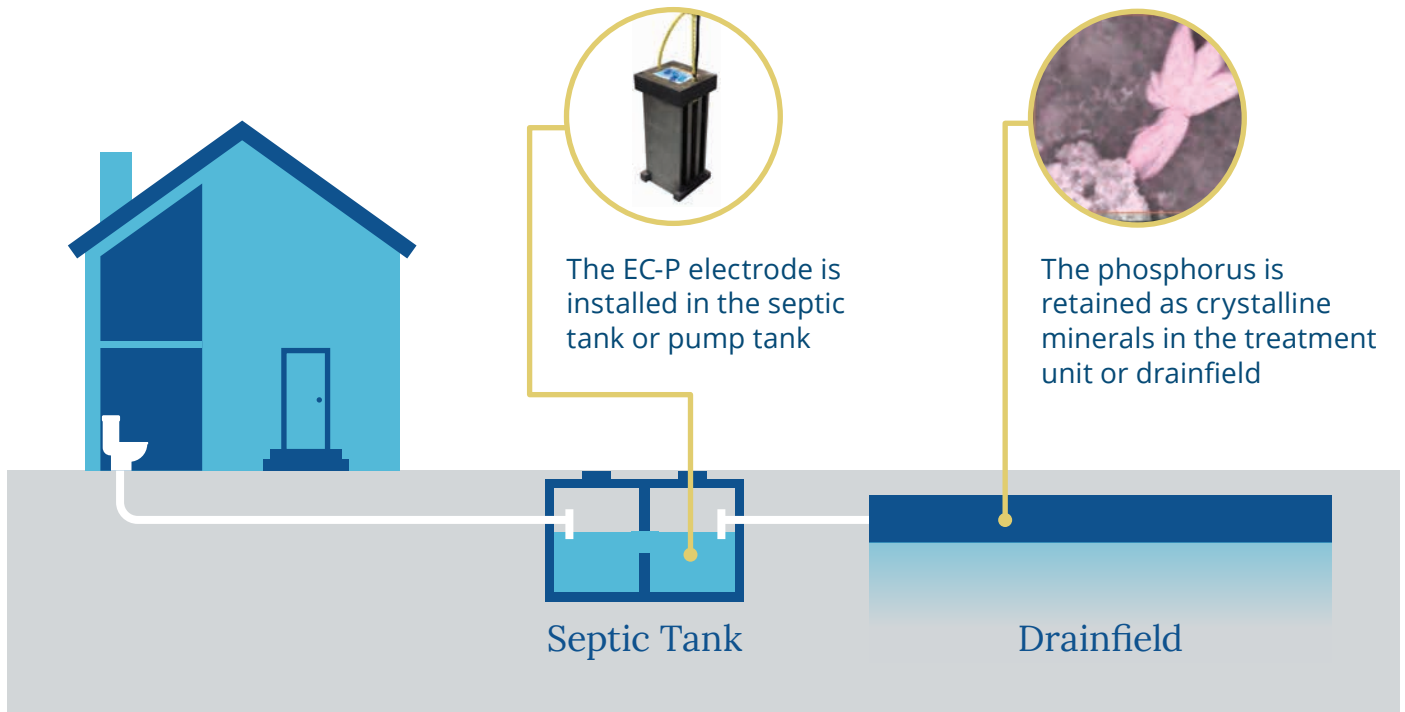
Lower Dissolved Oxygen Levels and Reduce Fish Populations



Produce Toxic Algae that is Harmful to Humans and Wildlife

How It Works

Using low-energy electrochemistry, the patent-pending **Waterloo EC-P™** dissolves natural iron electrodes into the wastewater. This iron reacts with phosphorus ions and precipitates out as an insoluble crystalline mineral. These iron-phosphate minerals are physically filtered out of the wastewater by the foam filter medium in the Waterloo Biofilter system, or by sand or soil in conventional septic systems – preventing the phosphorus from reaching the natural environment.



Waterloo EC-P Benefits

- ▶ Does not create additional sludge
- ▶ No chemical addition required
- ▶ Does not affect pH
- ▶ Works with filtration-based treatment units, sand, or soil
- ▶ Residential and commercial applications
- ▶ Phosphorus is permanently removed, not just separated as a sludge
- ▶ Low energy, less than \$50/year
- ▶ Typical electrode life of 2-3 years
- ▶ Can easily be retrofitted
- ▶ Compact and easy to install

For more
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