



-ELECTROCOAGULATION-
**The New Generation
of Wastewater Treatment**

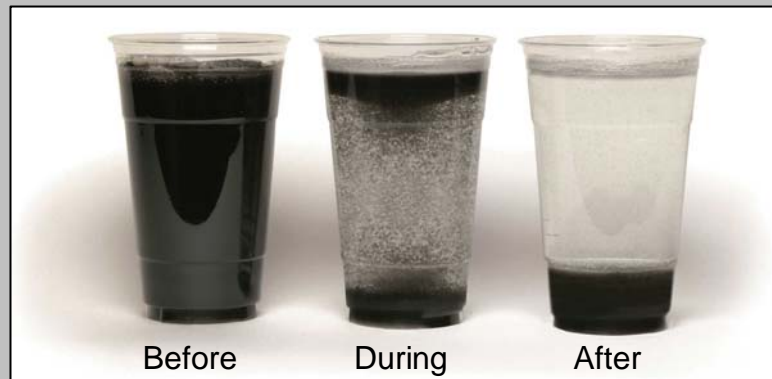
OilTrap Environmental Olympia, WA



- 15 years of experience
- Our focus of only water treatment
- Leading electrocoagulation manufacturer in the world

ElectroPulse

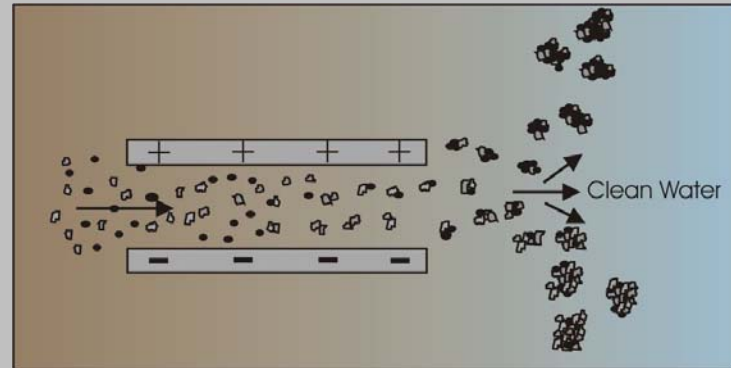
The ElectroPulse electrocoagulation water treatment system represents a major advancement in wastewater treatment using electrocoagulation, a revolutionary electrical-based technology for effectively treating complex waste streams economically and on-site.



The EC system removes a broad range of contaminants including emulsified oils, TPH, suspended solids and heavy metals--where filtration or chemical treatment systems are either ineffective or expensive to operate and maintain.

Electro-Pulse Process Description

Cell Plates – DC current is applied to the electrolytic cell plates causing trace amounts of the plate material to be dissolved into the water. The action is similar to adding separation chemicals (polymers) to a chemical treatment system but much less expensive.



Coagulation – As previously defined, the electrical current and trace dissolved metals from the electrolytic cell plates, cause suspended matter to come together, forming larger particles.

Flotation – During the reaction in the cell housing, oxygen bubbles are formed and attached to the coagulated matter, causing it to rise to the surface in the separation tank where it is removed and transferred to the sludge holding tank. The air bubble separates from the separated contaminant allowing it to sink to the bottom of the sludge holding tank where it stays until it is properly disposed of by the customer.

Benefits of System

Saves Money

Treatment costs, including utilities and consumables, averages 1/3¢ per gallon.

No Daily Maintenance

There are no filters to deal with and no separation chemicals to add, resulting in **No Daily Maintenance**.

Treats Multiple Types of Contaminants Simultaneously

Multiple types of contaminants such as emulsified oil & grease, heavy metals and suspended solids are easily and simultaneously removed from water.

Stabilizes Heavy Metals

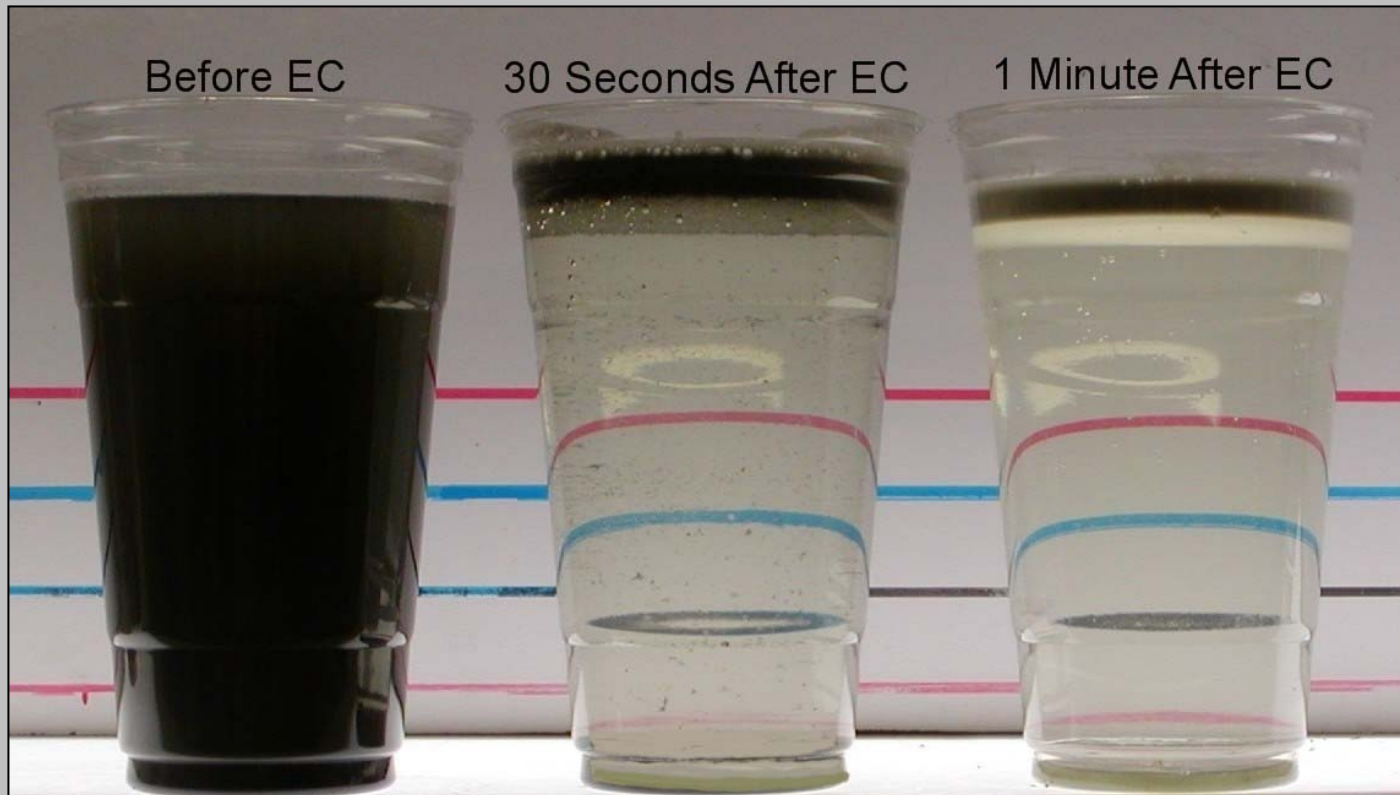
Heavy metals are removed and usually reduced to metal oxides which generally pass a TCLP test. This can significantly reduce disposal costs.

Sludge Minimization

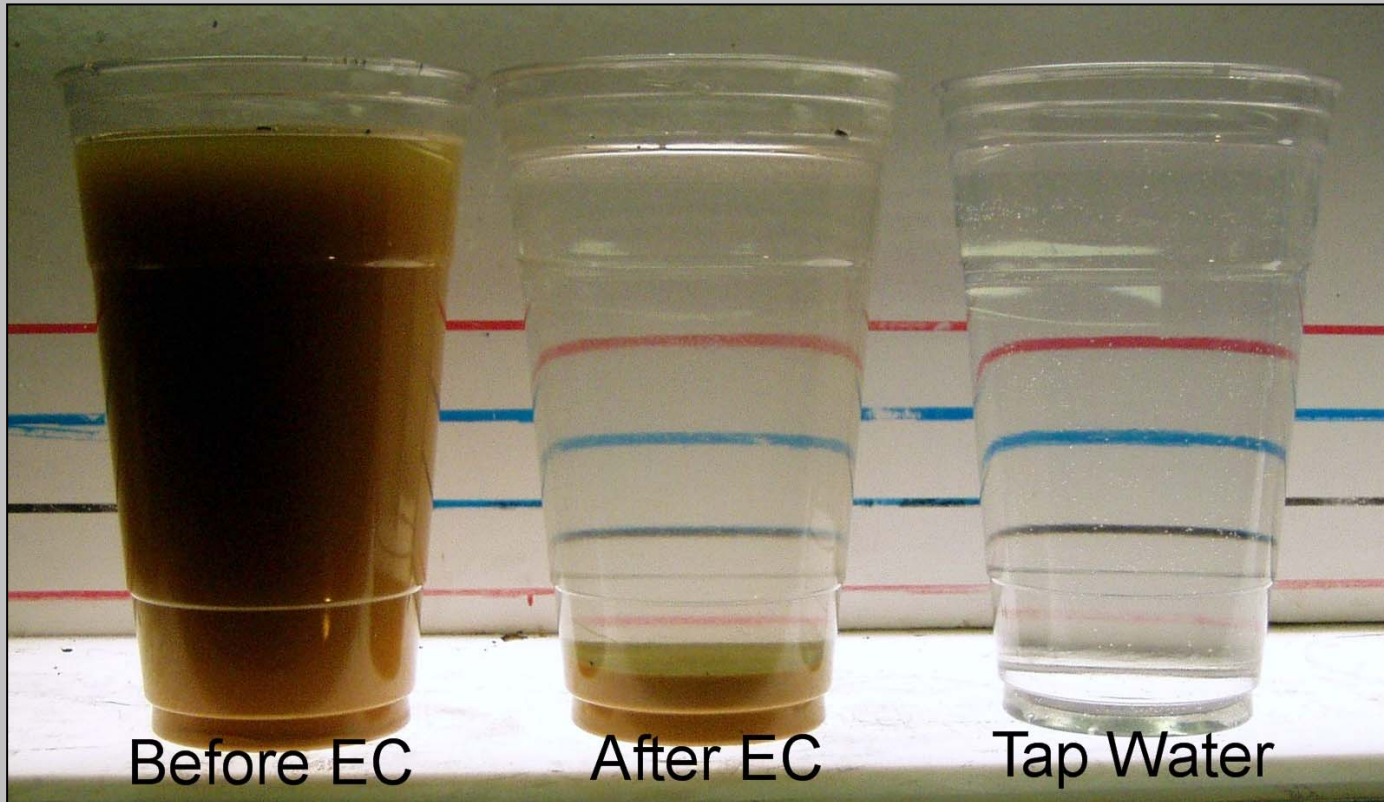
pH adjustment is normally the only chemicals required. The reduction of chemicals used reduces the volume of sludge produced, lowering hauling costs.

Totally Automated

The system is operated using an on-board computer system (PLC), automatically controlling the treatment process. An inexpensive communication package can be added, providing an OilTrap technician the ability to monitor and assist in troubleshooting the system from the factory.



Wash water containing oil & grease, dirt, lead and zinc from washing forklifts treated with the ElectroPulse system. No filters or separation chemicals are required.



Wash water containing red clay and oil & grease from washing heavy equipment treated with the ElectroPulse system. No filters or separation chemicals are required.

Many Satisfied Customers

Ritchie Bros. Heavy Equipment Auction – 20 Systems

NES Rentals – 13 Systems

Adesa Auto Auction – 26 Systems

Bobcat Service Centers

Baker Oil Tools

Sears Distribution Centers

Lufthansa Airlines

National Guard

Department of Transportation

Siemens Energy

Key Energy

Halliburton Energy...and many more.