## DO2E LITTLE JOHN DIGESTER now available with optional A.O.P

### **Benefits of Standard Features.**

Reduces sludge build up

educes H2S gas build up

reaks down FOG on contact Ieduces odor luces labor costs

ctricity close to water stalls in 10 minutes



Operates in min 24" of wat

erv low noise level (50 DB



Eliminates grease build up Reduces Pumping of Wet We

## Advantages of A.O.P Option.

Most powerful disinfectant ad oxidant readily available Does not produce harmful by products Reduces contaminants to inert compunds

Oxidizes many heavy metals

Reduces most bacteria & viruses (all forms of hepititus) removes H2S gas and all other Mercaptans

Increase dissolved oxygen Eliminates F.O.G (Fats, Oils, & grease Eliminates use of all other chemicals Provides cleaner/ Snitized environment for workers Removes pharaceuticals in waste water

#### WITH OPTIONAL A.O.P. ADVANCED OXIDATION PROCESSING PLEASE CALL FOR A QUOTE 250.391.3064 SEE THE VIDEO ON **OUR YOUTUBE** EMCOW W VICTORIA

NOW AVAILABLE

HE LITTLE JOHN DIGESTER is a state of the art "Patented System" that injects air through a specially designed manifold system constructed of heavy duty non-corosive material. Atop of this specialized manifold house stationary ridges or blades. As the air travels up and through the digester cylinder, a void is created. With this vacuum effect, solids are pulled in through the bottom of the digester and across the stationary blades or redges at the top of the unit. At speeds up to 65 feet per second, the solids are immediately emulsified when they come in contact with the blades or ridges resulting in high degree of breakdown of solids, which greatly increases the digestion process. Ozone can also be injected in this cylinder which further facilitates the digestion process of raw sewage before it enters the wastewater plant. The Little John Digester uses three means of digestion: mechanical, chemical and biological.

THE MECHANICAL DIGESTION works as described above by continuously moving the solids at speeds up to 65 feet per second, and accounts for approximately 70% of the digestion process.

THE BIOLOGICAL DIGESTION is further enhanced by reducing the BOD & COD. By continuously injecting 45 to 50 cfm of warm fresh air into the water coloun, we are able to stimulate or enhance the activity of the microbes/bugs. This enhancement of the aerobic enviroment further propagates good bacteria growth such as factors. It is estimated that this portion of the digestion process my account for 10-15% of the digestive process.

EMCO WATERWORKS

Ozone + Hydroxyl Radicals; Advanced Oxidation Processing or A.O.P Known as A.O.P,. Ozone and Hydroxyl radicals are combined to form one of the most powerful and effective oxidation agents known to man. Hydroxyl radicals are much more potent than ozone. When hydroxyl radicals are combined with ozone, reaction times are 300-500 times faster, 200-300% more effective and they have a half-life between 10-15 minutes. A.O.P will SUPER CHARGE your system!



# EMCO

# **LIFT STATIONS WET WELLS & GREASE TRAPS**

#### **CHEMICAL BIOLOGICAL & MECHANICAL**

While we do not add any chemicals to our process, we recycles the existing household chemicals found in grease traps and lift stations such as soaps, detergents, degreasers, stain removal solvents, drain cleaners, fabric softenters and

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all of othe other house hold clenaers that are discarded down the drain. Once discarded, these unused household chemicals become stratified or separated in the water coloumn within the lift station and have little to no effect in the digestion process. We have a unique way of blending all these existing chemicals/ components together to further break down the grease and other matting which occurs naturally in lift stations. This is a key component of our green technology, recycling. It is of the digestion that will be occuring in the lift station after the Little John Digestoer is installed.







**DO<sub>2</sub>E Little John Digester with A.O.P.**