

Case History

An insight into how CWP's unique hyperoxidation technology was used to treat onsite black water

Benefits

- Uses only Electricity
- No chemicals
- No waste stream
- Modular
- High Volume (upto 30 bpm)

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- Mobile (Portable or Fixed as needed)
- Low Maintenance
- Easy Operation
- Fast Deployment

Capabilities

- Disinfection
- Reduces Scale Formation, Biofilms and Algae
- Eliminates sulfate reducing and acid producing bacteria
- Oxidizes Heavy metals
- Reduces total dissolved solids – converts to TSS
- Eliminates foul odor H2S, NH3, Mercaptans
- Replenish Dissolved Oxygen
- Organics/BOD/COD reduction

Wide range of Products

- 🖵 AP 1.5] AP 6 **_** AP 12 AP 48
- 🗆 AP 72

Onsite Gray/Black Water Treatment BOD & E. Coli reduction

Clear Water Plasma LLC (CWP) has successfully

treated onsite sewage waste water from a leading service provider in Western Texas.

- Customer constantly facing non-compliance issues with existing treatment scheme
- State regulations require BOD of treated water to be less than 80mg/L

State regulations require E.coli & Total Coliforms to be less than 8 CFU/ml for reuse as sprav water on ground

State regulations require the pH to be in the range of 6.0-9.0



Onsite Sewage Aqua Waste Water **Pulsar Unit** AP 1.5

The customer approached CWP with these stringent demands and CWP delivered on its promise.

State regulations also require residual chlorine to be 2-3 mg/L over 7 days.

Recommended AP-1.5 Unit as pretreatment to existing treatment scheme

• log 4 reduction in total coliforms and E. Coli

- BOD reduced by > 76%•
- pH of came down to 8.3 •

Excess Residual free chlorine • after the CWP pretreatment (14.5 mg/l) allowed the customer to add more untreated water and bring free chlorine down to 2-3 mg/L as required by the state regulations

- Increased processing capacity for • customer
- Brought the overall treatment plant into compliance •
- Happy customer orders more units and installs at all its locations
- Now provides a complete integrated system with AP1.5 pretreatment as a

package to new customers

Onsite Sewage Waste Water Treatment		
Parameter	Before Treatment	After Treatment
BOD, mg/l	696	161
рН	8.78	8.31
Temperature	19.6	21.3
Total Coliform, MPN/ml	>2420	<1.0
E.Coli, MPN/ml	>2420	<1.0
Chlorine, Residual,mg/L	NONE	14.5

