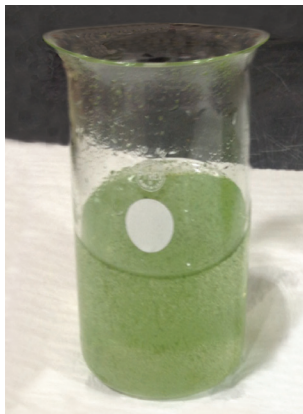


U.S.Army Corps of Engineers Testing of KRIA & EcoSOAR™ Technology

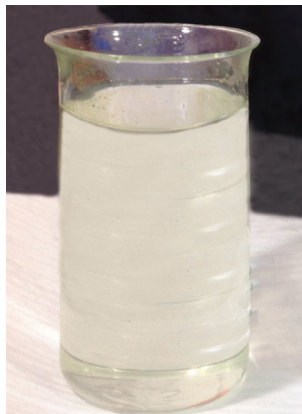
In November 2013, the U.S.Army Corps of Engineers (USACE) performed testing of the KRIA technology to examine its effectiveness in various applications of water treatment and contaminant mitigation.

USACE Test Data

- **DO (dissolved oxygen)** – confirmed increase within the water body.
Control tank 6-9 mg/l VS. Test tank 30 mg/l
- **Conductivity** was 3 times higher in test tank confirming the KRIA unit adds a negative charged ion (the superoxide anion)
- **ELISA Test** indicated superoxide present at 3-5 times higher levels than the control tank. This is a superoxide dismutase enzyme immunosorbent assay.
- **Diesel fuel** – tests showed a definite decrease in diesel concentrations within 72 hours compared to the control highlighting use of the KRIA for fuel or petroleum cleanup.
- The **PCB** test showed statistically significant PCB removal.
- **Algae / Cyanobacteria** (Types tested: Anabaena, Microcystis & Aphanizomenon). See photos below.

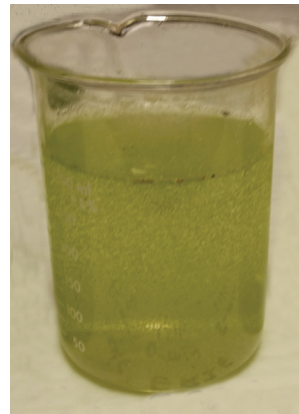


0 time

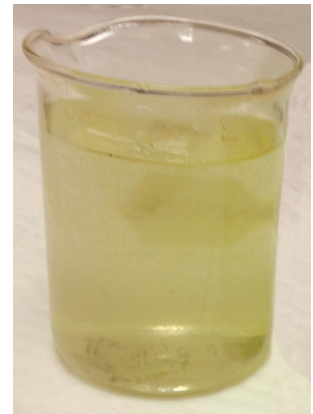


After KRIA treatment

From: Clear Lake – Lake County, CA



0 time



After KRIA treatment

From: Lake Erie, Luna Pier, MI

- Test analysis shows that the lonizer's superoxide (SO) had maximum effect on the Algae/Cyanobacteria at its highest absorption level of 650 – 670 nm.
- Test results show that 90% of the Microcystin produced by the cyanobacteria was eliminated in the first 5 minutes of testing.

Final USACE Test Reports are available upon request!

1. Testing of KRIA Ionizing Water Treatment for Water Contaminated with Diesel, PCBs and Nutrients.
2. Treatment of Algae using the KRIA Water Treatment System
3. Dr. Victor Medina, USACE, Paper – Evaluation of the Destruction of the Harmful Cyanobacteria, Microcystis aeruginosa, with a Cavitation and Superoxide Generating Water Treatment Reactor.