

KRIA Ionizer Proposal

for _____
Owner

Date

Applicant

proposes the installation of a KRIA Ionizer system.

For the purpose of reducing water pollution levels and restoring water body ecological health at/in

Water Body Site

The proposed goal is to raise the dissolved oxygen (DO) level of the water body by injecting ionized oxygen into the water. The applied technology results in the removal of organic pollutants and the restoration of sediment bed health – making fishing and swimming activities possible.

The projected time frame for the system to restore balance is ____ years. Equipment installation and operation occur without disruption to public activities or other users of the water body.

The KRIA Ionizer has established a history of performance (12 years) and third-party testing of the technology. Uses have included the cleaning of lakes, oil spills, fisheries aeration, and the cleaning of ballast water from ships. Currently, (March 2013), sales were made to Peru for wastewater treatment, to India for shrimp farms and river restoration, and talks are in progress for a number of Chinese rivers.

The Ionizer works by injecting high levels of ionized oxygen into water. The resulting high DO levels cause organic pollutants to dissolve and enables the resurgence of aerobic bacteria. The results are a clean water body with the return of vibrant aquatic life.

Specific Actions:

- increased DO levels throughout the water column (top and bottom)
- dissolution of organic pollutants
- restoration of aerobic bacteria
- removal of anaerobic bacteria
- reaches over ½ mile in all directions and a depth of 350 feet
- eliminates the need for dredging in most cases
- no chemicals are added
- no disruption to water users
- increased levels of aquatic life

Test demonstration proposal includes:

- EcoUSA and _____ will supply the use of an Ionizer at a monthly charge, for a period of time to be determined by all parties.
- Owner will provide an (approved) demonstration site
- Owner will provide a licensed electrician for power supply to the ionizer
- Owner will provide all testing protocols and analysis
- Owner will oversee regular inspection of the Ionizer and will notify EcoUSA of any malfunctions.

-EcoUSA stipulates that the Ionizer will raise DO levels and maintain DO levels at a level higher than ambient water conditions for the duration of the testing period. All parties acknowledge that DO levels decline with increased water temperatures.

-The resulting high DO levels should result in improved water quality and sediment health.

Ionizer Data:

Size: 42 by 30 by 30 inches

Weight: 440 pounds

Power: 220 volts

Location: As close to the water as possible on a reasonably flat surface. Access by authorized and trained personnel only.

Attachments:

Description of Project

Monitoring and Quality Control Source

Outline of Funding Source

Contact:

Mike Mangham, EcoUSA, 800-517-2575

mike@ecousa.us