

# BIOMATRIX WATER



## REJUVENATING WATERWAYS

Modular Ecological Systems for Bioremediation and Wastewater Treatment

### APPLICATION



- Contaminated canals, rivers, lakes and reservoirs.
- Purpose built lagoons for high strength treatment.
- Commercial developments, Eco-corridors, water parks, and bird sanctuaries.

### SYSTEMS



#### ACTIVE ISLAND REACTORS™

- Floating water treatment islands and underwater ecosystem supports complex biological treatment processes and zones.

#### ACTIVE EDGE FILTERS™

- Sophisticated bank filtration which continually recirculates and rejuvenates the water.

### RESULTS



- Advanced treatment standards for BOD, COD, NH<sub>3</sub>, TSS & TN.
- Treats industrial effluents.
- Odour filtration.
- Aesthetic cleantech.



## WATER TESTING

Biomatrix Water performs its own water analysis to insure that testing is comprehensive and accurate. Water quality and velocity tests are taken during the initial surveys and after the installation is finished to provide the necessary data to meet standards.



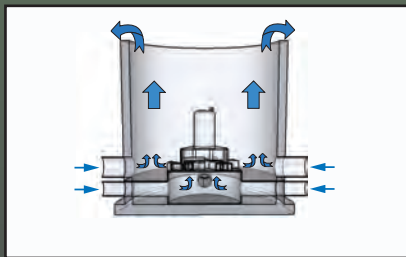
## SITE SURVEYS

The Biomatrix Remediation System can clean polluted lakes, rivers and canals. Detailed site surveys provide specific information on the pollution loading of each site. Typical surveys involve over 300 measurements and water tests.



## ENGINEERING

Biomatrix engineers provide full services from preliminary design to final engineering, using advanced process calculations & elegant CAD design.



## AERATION

Aeration is performed with submersible, aerators, optionally controlled in groups by DO sensors and timers for energy optimization. The strategic placement of aeration and directional circulation enhances cascade effects throughout the water body.

## WHAT WE DO

The founding partners of the Biomatrix Water team have been leading innovators in ecological design for over two decades. We provide natural design solutions and system components for advanced waste water treatment, water recycling, environmental restoration and ecosystem infrastructure / architecture design integration. Projects are generally on an EPC basis (Engineering Procurement and Commissioning).



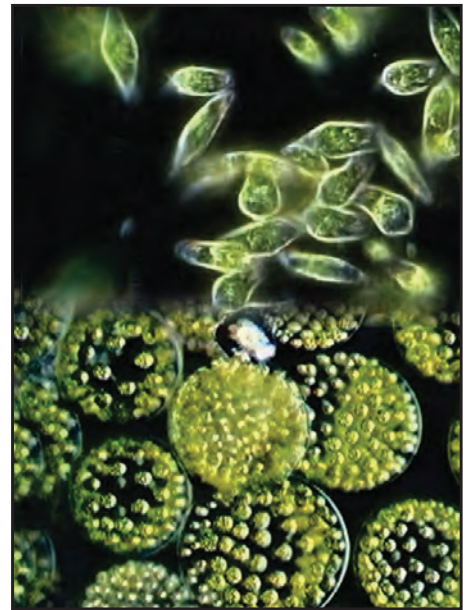
## TECHNOLOGY & ECOLOGY

Our design approach applies the latest developments in environmental sensory probe technology and process control with innovative ecological engineering based on the principles of Biomimicry. The combination of ecology and technology in a dynamic and responsive engineered system sets a new standard for increased performance and efficiency, and opens new opportunities for the integration of ecosystem-infrastructure and the built environment.



## INCREASING VALUE

The integration of natural systems with infrastructure and the built environment presents multiple benefits, increasing both economic project value as well as biodiversity and ecosystem services value.



## WILDLIFE HABITAT

Biomatrix systems provide excellent wildlife habitat and can be designed with additional wildlife features such as bird nesting areas. The Biomatrix system optimizes a mutually beneficial interface between humanity and nature with the end result being a cleaner and healthier water system for all.

[www.biomatrixwater.com](http://www.biomatrixwater.com)

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March 2011