



RESTORATION OF RIVERS, LAKES, PONDS & CANALS

“ Let’s transform our water bodies into re-usable resource ”

Over 70% of earth’s surface is covered with water, but fresh water resources accessible for direct human use account for less than 1% (Table 1 shown below)

Table 1 : Distribution of water on Earth

Location	Percentage of total water	Estimated average residence time of water
Oceans	97.2	Thousands of years
Ice caps & glaciers	2.24	Tens of thousands of years and longer
Ground water	0.61	Hundreds to many thousands of years
Lakes	0.016	Tens or hundreds of years
Atmosphere	0.001	9 days
Rivers and streams	0.0001	2 weeks

- Surface water resources are used for domestic, industrial, municipal supply, irrigation, production of energy, navigation, fisheries and recreation. Ensuring adequate supplies for the healthy functioning of aquatic ecosystems has long been neglected, and the consequent damage to the environment has been immense.
- People have used water, mainly rivers, lakes and lagoons, as a convenient sink into which to dump wastes from either point or nonpoint sources originating mainly from domestic and industrial sectors, and from agricultural runoff. The list of pollutants is endless, and varies from organic pollutants to synthetic and highly toxic chemicals.
- Degraded water bodies are a common sight around us. A degraded stream is defined as any water body or stream that is not functioning at its hydrological or biological potential.





Threats and Impacts to water bodies such as rivers and riparian Habitat

- Disturbance and Equilibrium – natural or human disturbances to streams and rivers affect both the structure and ecological functions of these systems.
- Dams and other Barriers – causing adverse effects to processes and block fish migration and movement.
- Impacts from Other Land Management Practices – Land use, watershed development, and resource management practices have caused both direct and secondary impacts to rivers and streams.

• The concept of stream restoration refers to returning degraded ecosystems to a stable, healthy condition.

• Blue & Green Solutions will strive its best to reverse the effect of pollution by introducing a '4' point Restoration Program of Rivers, Lakes, Ponds and Canals by in-depth understanding of the physics, chemistry & biology of the rivers & lakes.

The Process

- Feasibility Study.
- Physio-Chemical Water Analysis Study.
- Detailed Project Report.
- Techno-Commercial Proposal.
- Approvals.

Restoration Program Deliverables

- Surface Water Pollution Cleaning.
- Sub-Surface Water Pollution Treatment.
- Treatment of Water Flow into the body at the Source.
- Sludge Handling and Disposal.

The above treatment would result in a long lasting sustainable solution for clean and unpolluted water bodies.



To know more get in touch with us!!

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"a water engineering company"