

Vertex Aquatic Solutions is not just a manufacturer, we have a full time staff of lake science and management experts to assist lake management companies, engineering firms and government agencies with more complex jobs for their prospects and clients.

## Our Consulting Services:

- Provide Direct Management Utility to Meet Goals
- Allow You to Offer More Solutions to Prospects & Clients
- Are Performed by Accredited and Certified Professionals
- Enable You to Bid on Larger and More Complex Jobs

## Water Quality & Harmful Algal Bloom (HAB) Management Consulting Services

Issue-based water quality and/or HAB management plans use science based methodologies to determine the root cause(s) of issues in the lake and how to address them both short and long-term. This is important when a waterbody doesn't respond to traditional methods of lake management. Consulting services include:

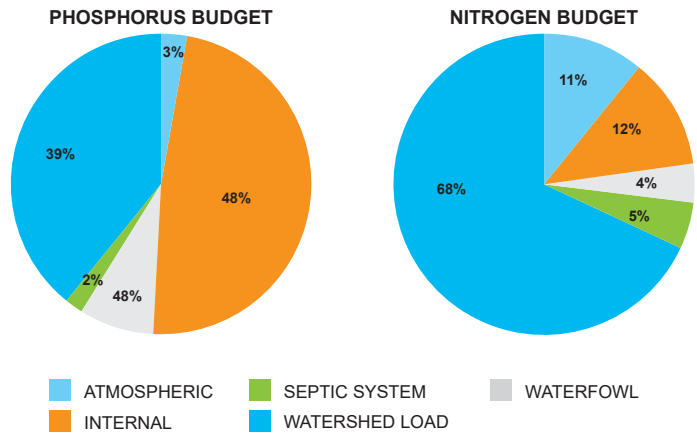
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|---|--|---|
| <input type="checkbox"/> Nutrient Budgets       | <input type="checkbox"/> Zooplankton Assays      | <input type="checkbox"/> Watershed Modeling         |
| <input type="checkbox"/> Water Quality Modeling | <input type="checkbox"/> Biomanipulation Studies | <input type="checkbox"/> Sediment and Water Testing |
| <input type="checkbox"/> Restoration Design     | <input type="checkbox"/> GIS Services            | <input type="checkbox"/> Permit Writing             |



## Water Quality Modeling

We provide quantifiable estimates of what the lake or pond would be like under different management strategies and watershed development.

- Helps set realistic water quality goals for clients.
- Allows for the selection of the best management tool(s).



## Nutrient Budgets & Studies

Excess nutrients are the primary cause of HABs and any long-term HAB management program requires a nutrient budget.

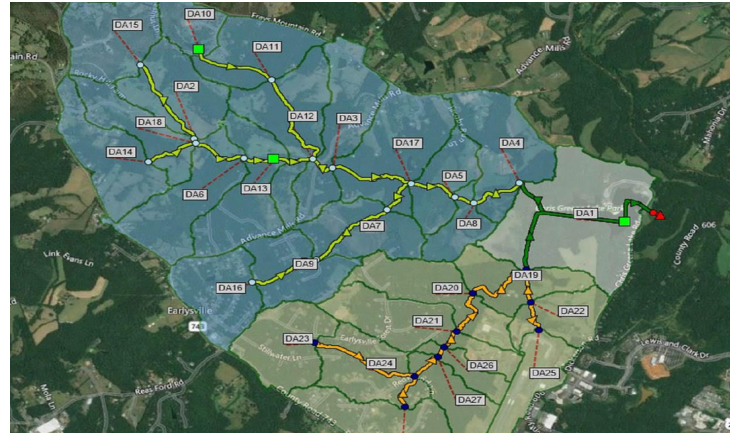
- Studies tell us where the nutrients are coming from and how to target them appropriately.



## Restoration Design, Modeling and Cost Estimate Writing

The final phase of water quality and HAB consulting includes a recommendation of solutions and a timeline for implementation based on our research and data.

- The ultimate goal is to arrive at a comprehensive, customizable plan that fits within your clients' budget.



## Other Specialized Site-Specific Consulting Services

Site-specific tasks and evaluations may be required for some waterbodies. Specialized consulting services include:

- Biomanipulation studies
- Advanced Watershed and GIS Modeling
- Water and Sediment Testing
- Permit writing
- Septic studies

## Complex Aeration Design and Modeling Consulting Services

Have you been treating your clients' waterbodies for symptoms that keep recurring? Getting the right aeration system is not difficult for average waterbodies, which is why we do most of them at no charge.

However, some waterbodies require more detailed design specifications than a few calculations due to conditions including:

- Lakes with high external nutrient loads may need an enhanced aeration system where alum is added to the air lines.
- Size - very large bodies of water need more than one system to be effective.
- Locations with stringent requirements to keep a level of stratification.



**Our Experts Help You Get The Job Done Right!**

**Contact Us Today at 844.432.4303 For Your Consulting Proposal**