



SIMPLIFY THE SCIENCE

CLEAN-FLO.COM

“If you can’t explain it simply, you don’t understand it well enough.”

Albert Einstein

Saving the Lake Lifestyle with

CLEAN-FLO
CLEANING WATER BIOLOGICALLY



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SIMPLIFY THE SCIENCE





Eutrophication, Hypoxia & HABs

Our lakes are facing a serious crisis. Once places of beauty and life, many are now overrun by mucky sediment, invasive weeds and harmful algal blooms (HABs) caused by eutrophication – a process fueled by too much phosphorus and nitrogen entering the water.

This has been happening for years because of human activities like farming, urban runoff, wastewater discharge, and septic systems near lakes. These excess nutrients trigger algae to grow rapidly. When the algae die, they sink to the bottom and decompose, consuming oxygen and creating “dead zones” where fish and other aquatic life can’t survive.

In these low-oxygen conditions, cyanobacteria (blue-green algae) thrive. Unlike other algae, cyanobacteria often produce toxins that are harmful to people and animals. They take over the lake, turning it into a toxic, unhealthy environment. This not only affects recreation and community use but also causes financial losses through lake closures, reduced property values, and harm to lakeside businesses.

The growing presence of HABs signals a bigger issue: decades of poor management have ignored the root causes of this problem. This isn’t just about losing beautiful views—it’s an ecological, economic, and health crisis that threatens the lifestyle many communities rely on.



Why It Matters

The health of lakes impacts far more than the environment. Lakes are central to what we call the “Lake Lifestyle”—a source of recreation, relaxation, and community. Clean lakes mean fishing, boating, and enjoying nature. But when lakes are overtaken by muck, weeds, and toxins, the lifestyle is replaced by bad smells, ugly scum, and health risks.

Lakes are also crucial for water security. Many provide drinking water, irrigation, and water for businesses. HABs make water treatment harder and more expensive. In some cases, the water becomes unusable, creating economic strain on local governments and communities.

This crisis is driven by human activity. Growing populations, urban sprawl, and intensive farming are flooding lakes with nutrients they can't handle. Fertilizer runoff, untreated stormwater, and failing septic systems overwhelm the lake's natural processes. These nutrients settle into the lakebed, where they recycle back into the water, fueling even more algae growth and oxygen depletion.

The effects ripple outward. Fish populations decline, invasive weeds replace native plants, and the food web collapses. Over time, lakes become eutrophic—locked into a cycle of degradation that's increasingly hard to reverse.

The costs are clear: falling property values, lost recreation opportunities, and struggling local economies. Saving lakes isn't just about aesthetics; it's about preserving biodiversity, water security, and quality of life for future generations.

Conventional lake management has failed to solve these problems. The U.S. Government Accountability Office (GAO) has criticized the relevant government agencies and the industry at large for focusing on short-term fixes instead of addressing the root causes. It's time to move past ineffective approaches and adopt strategies grounded in real science and sustainable solutions.

Keeping It Simple and Measuring What Matters

To fix the problem, we need to simplify the science and focus on solutions. For too long, experts have overcomplicated the issue without delivering results. By concentrating on what's truly important, we can see the bigger picture and take effective action.

What matters most are three key metrics: dissolved oxygen levels, sediment nutrient stockpiles, and the balance of phytoplankton (algae in the water). These indicators show the root causes of eutrophication and point the way to effective interventions.

By focusing on these core metrics, we can stop getting bogged down by irrelevant details and start addressing the real issues. This shift will help reverse lake degradation and set a clear path toward long-term recovery.



The Tipping Point

A eutrophic lake eventually transitions from a water body defined by nutrient clearance to one defined by nutrient recycling.

With a well functioning, biodiverse food web, a lake can naturally maintain its own health through nutrient clearance. Nutrients are first taken up to produce “primary” biomass – phytoplankton, and that is consumed by zooplankton and the zooplankton are prey for predators higher up the food chain, until some of those predators are consumed by land-based predators such as reptiles, birds, mammals or fishermen and removed from the water body completely.

In a eutrophic lake, sediment nutrient stockpiles become the basis of a self-sustaining transformation:

- decomposing sediment depletes oxygen and cause hypoxia
- benthic animal life cannot survive in hypoxic conditions, so the foundations of the food web are undermined
- nutrients are recycled to produce phytoplankton blooms that go unconsumed by the depleted food web
- so they die off, sink to the sediment where they decompose and maintain hypoxia.

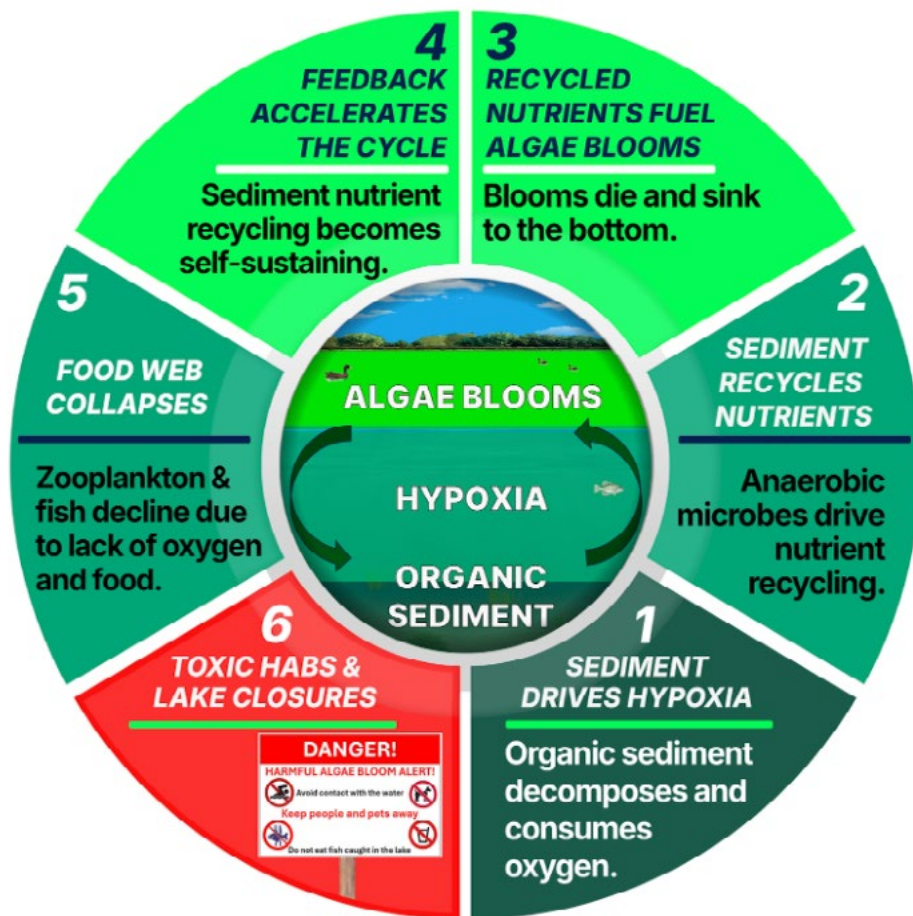
When eutrophication reaches a tipping point, and if you only become aware of that when toxic cyanobacteria HABs occur, then you are too late, and your lake has succumbed.



The Cycle of Eutrophication

Eutrophication builds its own momentum because it is a cycle that is accelerated by feedback. In a healthy lake, biological balance and nutrient clearance are maintained by the food web because primary biomass – phytoplankton – is consumed and cleared through the complex hierarchy of prey and predators.

But animal life cannot survive in hypoxic water, so the food web becomes degraded, and nutrient clearance by the food web is replaced by escalating nutrient recycling and algae production, which becomes self-sustaining. This means that nutrient recycling independently sustains eutrophic conditions; hypoxia, nutrient supply and excessive algae blooms.



But the real threat is that these conditions favor cyanobacteria because they have competitive advantages that mean they can outcompete beneficial algae for those nutrients.

Eventually a tipping point is reached as cyanobacteria achieve domination and toxic HABS result.

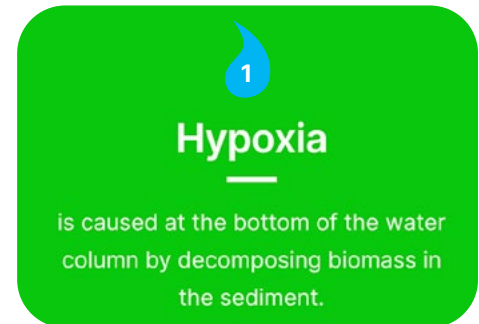


To Put It Simply

There are three root causes of eutrophication

Hypoxia

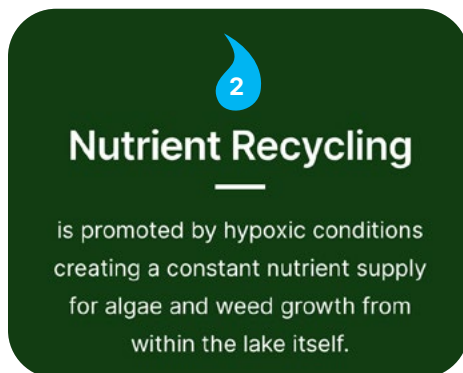
Low oxygen levels, or hypoxia, disrupt the lake's natural ecosystem. Without enough oxygen, critical organisms like zooplankton and bottom-dwelling creatures die. They play a vital role in consuming detritus in the sediment and clearing nutrients from the water.



1

Hypoxia

is caused at the bottom of the water column by decomposing biomass in the sediment.



2

Nutrient Recycling

is promoted by hypoxic conditions creating a constant nutrient supply for algae and weed growth from within the lake itself.

Nutrient Recycling

The organic sediment at the bottom of the lake is a nutrient stockpile. When benthic conditions become hypoxic, these nutrients, mainly phosphorus and nitrogen, are released back into the water. This fuels more algal blooms, which then die off, sink to the bottom and further deplete oxygen as they decompose, perpetuating the cycle.

Phytoplankton Imbalance and Ecosystem Disruption

Excess nutrients and low oxygen levels create the perfect conditions for cyanobacteria (blue-green algae) to thrive. These harmful toxin producers outcompete beneficial algae to dominate nutrient uptake and disrupt the ecosystem. Over time phytoplankton biodiversity collapses, and the food web breaks down.



3

Toxic HABs

occur because cyanobacteria outcompete beneficial algae in these conditions.

Eutrophication isn't just a water quality or aesthetic problem - it's a failure of the lake's entire ecosystem. It sabotages natural nutrient clearance capacity. Instead, inflowing nutrients are captured as phytoplankton biomass and deposited into the sediment nutrient stockpile form where they are continually recycled, accelerating the eventual onset of HABs.





The Trap of Symptomatic Treatments

For years, lake management strategies have focused on short-term fixes that only address the visible symptoms of lake degradation. While these reactive approaches, like using biocidal chemical treatments such as algaecides and herbicides, may offer quick visual illusion of improvements, they make the underlying problems worse and amplify and accelerate the process of eutrophication.

Unfortunately, vendors of these treatments either don't fully understand their long-term effects or simply don't care. To find real, lasting solutions, it's essential to understand why these approaches fail and how they contribute to the lake's decline



How biocides make the problem worse

Biocides, such as algaecides and herbicides, are commonly used to kill algae and invasive weeds. These chemicals seem like an easy solution because they work quickly and visibly. However, their use often leads to serious unintended consequences:

SEDIMENT ACCUMULATION



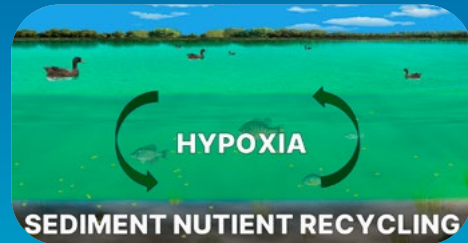
When algae and plants are killed by chemicals, their remains sink to the bottom of the lake, adding to the organic sediment.

HYPOXIA



As the dead organic material decomposes, it consumes oxygen, causing hypoxia and making the bottom of the lake unlivable for most aquatic life.

NUTRIENT RECYCLING



Decomposed organic matter releases phosphorus and nitrogen back into the water that feed new algal blooms, setting up perpetual nutrient recycling.

CYANOBACTERIA BEGIN TO DOMINATE



Cyanobacteria can control their buoyancy to access recycled sediment nutrients. So they have a competitive advantage over beneficial algae to thrive and take over, leading to HABs.

HARM TO NON-TARGET ORGANISMS



Biocides kill cyanobacteria, but also kill beneficial algae, and harm zooplankton, and fish, destabilizing the food web, reducing the lake's ability to naturally clear nutrients and regulate phytoplankton growth.

TOXIC HABs & LAKE CLOSURES



Once cyanobacteria HABs become a permanent feature, lakes are closed, property values plunge and the Lake Lifestyle becomes a distant memory.





**HAB
MONITORING
STATION**

The Futility of Monitoring Symptoms

Traditional lake management often focuses on tracking surface-level second-order symptoms like phosphorus levels or cyanotoxin concentrations. While these measurements can show a lake's condition, they don't provide information that you can act upon. This approach is just "testing to confirm failure" - it doesn't address what's causing the damage. There are two major flaws in this strategy

Reactive Responses

By monitoring only the symptoms, reactive responses can be taken only after the lake is already in trouble. On top of that, this reactive approach doesn't address the root causes, so the underlying problems continue to worsen. Reactive responses like biocidal algaecides and herbicides, or phosphorus precipitants, give the illusion of a solution by treating symptoms, but deep beneath, they accelerate and intensify eutrophication, hypoxia and HABs.

Irrelevant Data

Metrics like pH, chlorophyll-a, or dissolved nutrient levels provide general symptomatic information but don't point to root causes or solutions. They ignore the key drivers of degradation; hypoxia, sediment nutrient stockpiles, and imbalances in the ecosystem. Without tackling these root cause issues, effective lake management ACTIONS cannot be implemented or measured. So these metrics and reports become an empty distraction.

Being distracted by symptoms diverts attention from the real problems that must be addressed to restore a lake's health. Time, money and effort is wasted on fruitless reactive responses while the lake's health gets worse and worse.





Toxic Cyanobacteria HABs

Cyanobacteria, or blue-green algae, are naturally found in lakes. Under normal conditions, their populations are too small to pose a threat. But when eutrophication takes over, conditions favor cyanobacteria and they flourish and dominate, turning from passive participants into the main orchestrators of lake degradation.

How Cyanobacteria Dominate in Eutrophic Conditions

Buoyancy Control

Cyanobacteria have a unique advantage: they can control their position in the water column using gas-filled vesicles. This allows them to sink to the lake bottom to monopolize recycled nutrients and then rise to the surface to capture sunlight and bloom. In contrast, beneficial algae can only float passively near the surface, leaving them on a restricted diet and at a disadvantage.

Efficient Nutrient Utilization

Cyanobacteria are highly efficient at using nutrients, recycled from the lakebed. In low-oxygen conditions, they can monopolize ammonia produced by anoxic sediment that algae can't access. This gives them a significant edge over their competitors. They also form colonies that have their own microbiome - so synergistic microbes help them take more nutrients back to the surface where they photosynthesize and bloom.

Food Web Disruption

Unlike beneficial algae, cyanobacteria are a poor food source for zooplankton, which prefer more nutritious algae. As beneficial algae decline, zooplankton do too, starving the food web. This means less competition for cyanobacteria, allowing them to dominate and further destabilize the ecosystem. On top of that hypoxia means there are large parts of the lake that animal life in the food web cannot survive.



The Cost of HABs and Lake Closures

Focusing on symptoms and relying on quick symptomatic fixes has resulted in repeated failures in lake management. Instead of solving the problems, these strategies make things worse. The scale of these failures has become so significant that Congress tasked the U.S. Government Accountability Office (GAO) to investigate and offer recommendations.

The Cost of Reactive Symptom Management

CYANOBACTERIA DOMINATION

Repeated use of biocides and other reactive measures fuel nutrient recycling, giving cyanobacteria the upper hand by creating conditions that allow them to thrive. Harmful algal blooms (HABs) disrupt ecosystems and release cyanotoxins that endanger human and animal health.

LAKE CLOSURES

Repeated use of biocides adds to sediment nutrient stockpiles that exacerbate hypoxia and fuel nutrient recycling, giving cyanobacteria the upper hand. HABs release cyanotoxins that endanger human and animal health, causing lakes to be shut down and threatening the Lake Lifestyle.

ECONOMIC AND SOCIAL COSTS

Reactive treatments are not only counter-productive, they are expensive and unsustainable. Communities bear the burden of declining property values, lost tourism revenue, and the rising costs of ineffective strategies. These financial strains hurt local economies while offering no long-term solutions



The GAO Report:

Recommendations to Fix a History of Failure

The U.S. Government Accountability Office (GAO) was asked by Congress to investigate why current lake management strategies are failing. Their findings highlighted that reactive, symptom-focused measures do not work and often make things worse. Instead, the GAO emphasized the need for proactive management that targets the root causes of lake degradation.

Their key recommendations include:

Eliminate Hypoxia

Restore oxygen levels in lakes to disrupt the cycles of hypoxia and nutrient recycling that fuel harmful algal blooms (HABs).

Target Sediment Nutrient Recycling

Implement strategies to stop the release of phosphorus and nitrogen from lakebed sediments. This will break the cycle that continuously feeds algal blooms.

Restore Ecosystem Balance

Support biodiversity by encouraging the growth of beneficial algae and strengthening the food web. A balanced ecosystem naturally clears nutrients, reducing the risk of HABs.

The GAO made it clear that focusing on symptoms, like monitoring nutrient levels or applying chemical treatments, is not enough. These ineffective strategies have failed to restore lakes and have worsened the cycles of eutrophication and economic loss.

The GAO's findings provide a roadmap for real change. To manage lakes sustainably, we must prioritize solutions that tackle hypoxia, nutrient recycling, and ecosystem balance. Ignoring these lessons will only lead to deeper environmental and financial problems. Shifting to root-cause management isn't just recommended—it's essential for the future of water resource management.





Time to Shift from Symptoms to Root Causes

The message is clear: reactive treatments aren't the solution. Instead of solving the problem, they lock lakes into cycles of ecological decline.

The key to effective lake management is shifting from symptom-focused approaches to addressing the root causes of degradation. By breaking the cycles of hypoxia, nutrient recycling, and cyanobacteria dominance, we can restore lakes to a healthy, balanced state.

This requires proactive strategies that focus on long-term ecological recovery, not quick-trick fixes. Only sustainable, biological solutions ensure lakes remain vibrant and healthy so future generations can also enjoy the great American lake Lifestyle.



There is a guy with a website selling over 4,500 different products and treatments for lakes and ponds! When one fails there is always a few thousand others to try. Rather do your homework and make sure you select proven technologies that deliver value for money and results.

RADOR Oxygenation

Many lake professionals have discovered at great expense that “aeration” systems, regardless of whether they use mini, micro or nano bubbles, don’t work. Blowing bubbles into the water doesn’t necessarily raise dissolved oxygen levels at the bottom of the lake where it is needed most – unless it is RADOR technology.

Rapid **A**cting **D**issolved **O**xygen **R**estoration (RADOR) technology does what is says throughout the water column, consistently—regardless of depth.

This eliminates hypoxia, prevents anaerobic microbes from recycling nutrients and reduces the solubility of phosphorus in the water column. It also negates the key competitive advantages that cyanobacteria use to outcompete beneficial algae in hypoxic and eutrophic conditions.

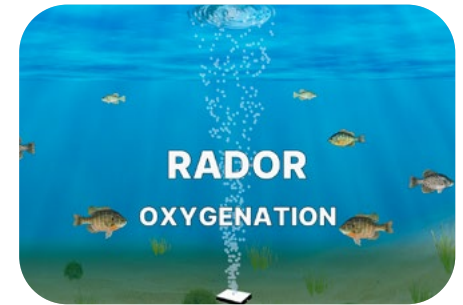
Enzymatic Bio-Dredging

Enzymes are natural biochemicals that break down biomass (food) in our stomachs so we can absorb the nutrients. Enzymes can digest the biomass that produces organic sediments the same way, so sediment nutrients stockpiles can be depleted or “bio-dredged” away.

But digesting sediment in this way means that you must firstly avoid cyanobacteria capitalizing upon the nutrients released and secondly ensure that the food web is restored and thriving so that it can consume the algae that is produced.

Micronutrient Bio-Stimulation

Micronutrients stimulate the planktonic organisms that form the foundation of the food web. Beneficial algae populations that can outcompete cyanobacteria are restored and so are zooplankton that consume them. Once the food web again has an abundant food supply the channel for nutrient clearance is restored so that bio-dredging and ecosystem balance at every level from phytoplankton upwards can be sustained.



Because of the synergy between root causes and feedback effects, a holistic, multi-pronged, and coordinated approach must be adopted. All root causes must be systematically identified, measured, and addressed together to achieve lasting results.

Hypoxia

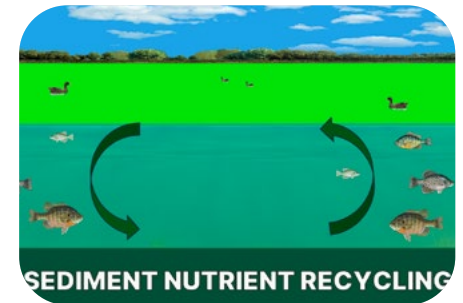
Dissolved oxygen levels must be assessed with sufficient precision to allow meaningful analysis and management. Measuring dissolved oxygen at just the surface, middle, and bottom is inadequate; measurements should be taken at one-foot intervals throughout the water column. This level of detail provides the data needed to guide interventions and track progress.

Sustained full-column oxygenation must be achieved, and oxygenation systems must be capable of meeting the increased oxygen demand that arises when creating and maintaining an aerobic environment. Bathymetric data is essential for accurately interpreting dissolved oxygen profiles.



Sediment Nutrient Recycling

Hypoxic sediments must be eliminated because they not only perpetuate hypoxia but also drive internal nutrient recycling, continuously fueling algal growth. Moreover, hypoxic conditions destroy benthic habitats, making it impossible for essential organisms such as zooplankton to survive. These organisms are critical components of a healthy food web and natural nutrient control mechanisms. Restoring aerobic conditions at the sediment-water interface is fundamental to reestablishing ecosystem balance and halting internal nutrient loading.



Phytoplankton Imbalance

Traditional reliance on chlorophyll- α measurements alone is insufficient to manage phytoplankton dynamics. Greater taxonomic resolution is required to truly understand and address shifts in the biological community. Management efforts must focus on actions that restore and maintain phytoplankton biodiversity to marginalize cyanobacteria and prevent HABs. In addition, controlling total phytoplankton population numbers and biovolume is essential.



Effective lake management starts with tracking the right metrics - those that give insight into root causes and guide meaningful action.

The saying goes, “You can’t manage what you don’t measure.” – if you don’t measure root causes, how can you ever fix them? If you only monitor symptoms, you’ll only ever use symptomatic treatments.

Measuring irrelevant or second-order data just monitors symptoms without providing actionable insights to guide effective management ACTIONS. The only way to measure success in reversing eutrophication and harmful algal blooms (HABs) is by focusing on root-cause indicators: **Measure What Matters**.

Why Monitoring Symptoms Fails

If lake monitoring programs only focus on symptoms, like phosphorus levels, chlorophyll-a, or cyanotoxins, by the time these parameters show problems, the process is already well advanced. But they give no insight into the status of the root cause drivers of eutrophication, nor do they help guide effective remedial interventions.

Reactive Responses

Monitoring symptoms will only draw attention to problems after they’ve already occurred, forcing management to focus on reacting to crises rather than preventing them. Detecting cyanotoxins in the water confirms that a toxic cyanobacteria bloom has already happened, which is a management failure - it’s too late for prevention.

Irrelevant Data

Commonly measured parameters, like pH or nutrient levels, aren’t tied to the root causes of eutrophication. If algaecide is used and chlorophyll- α levels drop – that is not a sustainable solution. It is just sleight of hand to manipulate a data point, but in no way is it a measure of sustainable management of phytoplankton levels or taxonomic profile. In fact, the deadly feedback loops that drive eutrophication are amplified and accelerated by such treatments.

To move beyond merely monitoring lagging indicators like symptoms we must focus on metrics that are predictive and track progress in addressing root causes. These indicators guide proactive interventions and create a clear path toward long-term recovery



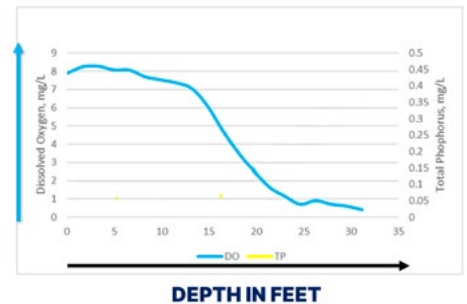
Measure Performance & Success

Proactive lake management depends on focusing on the right data - metrics that quantify hypoxia, sediment nutrient stockpiles and recycling, and ecosystem and phytoplankton imbalance. These indicators provide insights that guide ACTIONS to successfully remediate the lake and prevent HABs.

Oxygenation: Measure Dissolved Oxygen Throughout the Water Column

Why It Matters: Dissolved oxygen (DO) levels are the measure of hypoxia. Measuring DO at various depths, especially near the bottom, enables the extent of hypoxia to be quantified and whether hypoxic conditions are improving as the remediation program progresses.

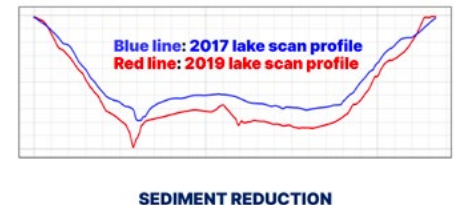
Tools for Action: Modern multiparameter probes can offer real-time data, or simple hand-held devices enable the layman to collect data, helping managers evaluate the success of oxygenation technology like RADOR systems.



Sediment Reduction: Bathymetric Scans and Nutrient Stockpiles

Why It Matters: Bathymetric scans map the lakebed, showing changes in sediment accumulation or reduction. This helps managers assess whether interventions are stabilizing the lakebed and reducing organic sediment.

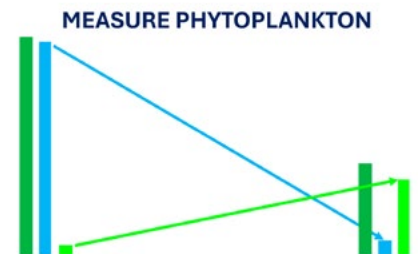
Tools for Action: 3-D models of a water body allow the volume of hypoxic water, the surface area of hypoxic sediment and the reduction in sediment by bio-dredging to be quantified for program performance measurement.



Phytoplankton Balance: Tracking Algae Composition and Abundance

Why It Matters: The types and amounts of algae in a lake reveal whether the ecosystem is recovering. Beneficial algae should replace harmful cyanobacteria as conditions improve.

Tools for Action: Taxonomic analysis identifies algae species, while biovolume assessments track population shifts. Together, these metrics show whether cyanobacteria dominance is decreasing and a balanced, biodiverse ecosystem is being restored



Follow The GAO's Recommendations

So many of our lakes are at a tipping point because decades of reactive management have left them deep in a downward spiral of degradation. There is no time left to act. To save these vital resources and the Lake Lifestyle they provide for, we must abandon ineffective “Whack-A-Mole” approaches that target symptoms. Instead, we need proactive strategies that target and fix the root causes.

Only by adopting the recommendations of the U.S. Government Accountability Office (GAO) and implementing comprehensive Lake Management ACTION Plans, can we create a sustainable framework for long-term recovery and restoration

The GAO has made specific recommendations for sustainable risk management of hypoxia and HABs :

Eliminate Hypoxia

Restore dissolved oxygen levels to stop nutrient recycling and create conditions where aquatic life can thrive.

Suppress Sediment Nutrient Recycling

Prevent recycling of nutrients (phosphorus and nitrogen) from hypoxic organic sediment, that fuel toxic cyanobacteria blooms.

Restore Phytoplankton & Ecosystem Balance

Marginalize cyanobacteria and restore beneficial algae populations to rebuild biodiversity and food web dynamics to ensure natural nutrient clearance.

Continuing with symptom-focused treatments will only perpetuate ecological decline, harmful algal blooms (HABs), and economic losses. By embracing the wisdom of the GAO's roadmap, we can shift to science-based, sustainable solutions that prioritize prevention, recovery, and ecological balance



Take ACTION



Lake stewards play a crucial role in protecting their lakes and the precious Lake Lifestyle. While this responsibility may feel daunting, if you Simplify the Science and focus on the key principles you will ensure better decision making and investment outcomes.

1. Understand the Process

Learn the root cause drivers of eutrophication and lake health: hypoxia, nutrient recycling, and phytoplankton balance. These core concepts help bring clarity to root causes and guide interventions.

2. Select Proven Technology

Invest in proven solutions that target root causes, such as RADOR oxygenation, sediment nutrient reduction (bio-dredging), and restoration of phytoplankton and ecosystem balance. Such ACTIONS break the feedback loops that drive cycles of degradation and offer a roadmap to sustainable recovery.

3. Take ACTION Against Root Causes

Don't be satisfied with temporary symptomatic relief. Your Lake Management ACTION Plan should show a clear path to restoring and maintaining lake health and preventing of toxic HABs.

4. Measure What Matters

Focus on metrics that provide meaningful insights, like dissolved oxygen levels, sediment nutrient stockpiles, and the balance of algae and aquatic life. Avoid being duped by irrelevant data or overly complex reports.

Demand Proof of Performance

Ensure your Lake Management ACTION Plan includes clear goals, selects proven technology and solutions, uses them to target root causes, and measures what matters - that way you will have data-driven proof of performance, so critical for justifying investments, achieving lasting improvements, and Saving the Lake Lifestyle.



Simplify the Science



- 01 UNDERSTAND THE PROCESS OF EUTROPHICATION
- 02 SELECT PROVEN TECHNOLOGY
- 03 TARGET ROOT CAUSES
- 04 MEASURE WHAT MATTERS

We believe that by Simplifying the Science we can empower lake stewards to make better decisions and get better results. For too long, lake management has been clouded by the selective use of metrics that justify and perpetuate ineffective practices rather than provide genuine improvement.

The key to saving our lakes is focusing on what truly matters:

Dissolved Oxygen Levels: A critical indicator of lake health and hypoxia.

Sediment Nutrient Stockpiles: Addressing the root cause of nutrient recycling.

Phytoplankton Balance: Restoring natural balance and performance of the food web.

By taking ACTION against prioritizing these root-causes, communities, policymakers, and lake managers can make smarter decisions. This focus ensures actions are impactful and deliver measurable, lasting results.

Together, we can break the cycles of degradation, restore ecological balance, and Save the Lake Lifestyle for generations to come.

