



NanoClear

Water Solutions

Our bio-centric nano-ceramic products bring new efficiency to water treatment with customizable, low-maintenance solutions that seamlessly integrate into existing systems.

Our Executive Team.

Our Mission is Clear; We're committed to creating a better tomorrow by providing innovative, cutting-edge solutions that solve today's water treatment challenges, enabling organizations to improve water treatment worldwide, and positively impact our planet's future.

After fifteen years of extensive R&D by a team of leading Ph.D. material scientists, NanoClear was launched, making our sustainable innovative solutions available to all.



Baruch Singer, CEO

An entrepreneur with 30 years of building accelerated growth companies. The key to Baruch's success is building executive teams of exceptional people capable of delivering extraordinary results.



Eli Bergman, CTO

A water industry professional with a background in engineering and research, Eli tests, builds prototypes, and creates solutions specifically suited to meet our customer's needs.



Michal Willis, CGO

With experience from time in the high-tech startup space, Michal brings business development that allows her to quickly identify customer "pain points" and provide solutions to industry problems



Daniel Saban, COO

A dual degree in civil engineering and construction management allows Daniel to assist our clients with both the design and integration of our products into existing infrastructure.



Yechiam Shapira, R&D

With a Master's in Aquaculture Health and Genetics and 30+ years of experience in the field, Yechiam is the health manager of marine & fresh water hatcheries, sea cages, RAS facilities, and research stations.

Our Core Values.



Care

Care is the cornerstone of our mission—a profound value that transcends boundaries.

We care for PEOPLE, valuing our customers' needs and aspirations as if they were our own. This dedication fuels our relentless pursuit of innovative solutions.

We care for the ENVIRONMENT, diligently working towards sustainable, eco-friendly water management that nurtures ecosystems and conserves vital resources.



Commitment

We are committed to helping our customers meet their objectives

Our unwavering COMMITMENT to both people and the environment propels us to work on solving water-related challenges, deliver exceptional results and empowers organizations to navigate these critical waters with confidence.

We believe in a COLLABORATIVE approach to problem-solving. We start by listening to our customers and allow their priorities to guide us toward the solution that is best for them



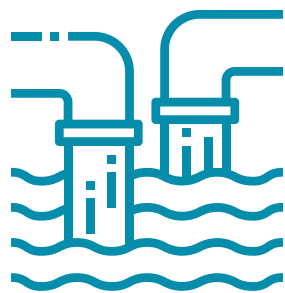
Passion

What brings every member of our team together is contagious passion.

Our passion for people, projects, and the planet is witnessed in all of our ACTIONS. Passion is found in every single member of our team and is the common thread between so many unique experts.

We uphold a steadfast commitment to HONESTY, ethics, and unwavering moral standards in everything we do. Our dedication to ALIGNMENT forms the bedrock of our operations, ensuring that we prioritize transparency, fairness, and ETHICAL conduct in all our interactions and decisions.

Target Markets.



WQ Management

Sustainable water management is vital for people and the planet, and cost-effective solutions are in demand.

- **Sufficient Biological Treatment**
- **Energy and Cost efficiency**
- **Sludge Production and Handling**
- **Keeping up with Increasing Demand**

We provide a solution that enhances existing water treatment performance, ensures regulatory compliance, and reduces energy and chemical inputs. We provide an accelerated growth of beneficial bacteria, and can promote as much as 50x more bacteria than competitors.



Algae Control

Algae overgrowth complicates and disrupts ecosystems, poses health risks, and hinders industry operations.

- **Toxic Algae blooms**
- **Seasonal Variability**
- **Limited Treatment Options**
- **Regulatory Compliance**

Revive natural ecosystems, prevent sediment accumulation, and control algae blooms in public, protected, and delicate water bodies by utilizing our substrate infused with beneficial bacteria. This solution eliminates excess nutrients, decreases sludge, and increases oxygen levels in the water.

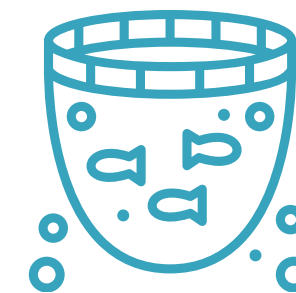


Water Disinfection

Consumers are increasingly concerned about the safety and long-term effects of the water they're coming in contact with.

- **Health and Environmental Concerns**
- **Monitoring and Control**
- **Reliability and Resilience**
- **Compatibility with Existing Systems**

Our product, when infused with antimicrobial nano-compounds, safely eliminates bacteria from swimming water without producing harmful byproducts. This creates an eco-friendly and superior disinfection solution for pools and spas while lowering chemical reliance.



Aquaculture

Achieving balance in speed, quality, and cost in aquaculture is crucial for feeding communities and supporting economies.

- **Issues caused by Low Water Quality**
- **Disease Outbreaks and Mortality Rate**
- **Feed Conversion Ratio**
- **Ammonia and Nitrate Levels**

Our ceramic substrate provides the perfect medium for beneficial bacteria that naturally enhance water quality in a cost-effective way. By improving these key parameters, our solution tangibly enhances fish health and yield.

Our Solution.

- **Patented Nano-Ceramic Material**

The ceramic material hosts millions of interconnected capillaries sized 50 to 100 microns in diameter. The media can be infused with bacteria blends or targeted nanoparticles.

- **2,296,257 M2 per M3**

Every cubic meter of our patented ceramic material provides over 2 million meters squared of surface area that becomes coated with thin bio-films.

- **Over 80% Porosity and <10% Head Loss**

Millions of capillaries provide the space for accelerated growth of beneficial bacteria, with minimal loss of water flow.

- **Emulating Nature**

The material mimics natural forms and surface textures allowing bacteria to “grip” which encourages more rapid bacterial colonization.

- **Lightweight and Modular Design**

The stackable and modular design conforms to any current system infrastructure. Lightweight with no heavy equipment required for installation of product.



Water Quality Management.

Our Media has 2,000 times greater surface area and produces up to 10x more bacteria in the water than other products available for biological water treatment.

- **Increases treatment plant capacity by 30-40% by producing 10x more bacteria in the water**
- **This excess bacteria accommodates extreme influxes of water flow**
- **Reduces sludge production the largest operational expense of almost any treatment plant**
- **Large amounts of bacteria maintain water quality during times of low water temps**
- **Lightweight, modular, and stackable design provides adaptability to all applications**

CASE STUDY: CITY OF UNION WWTP, UNION, OH, USA - 1 MGD.

The aerobic contact chamber at the wastewater treatment plant had a short hydraulic residence time and struggled to reduce ammonia and nitrogen compounds, impacting the finishing lagoon. By adding ProBio Media (PBM) equivalent to 2.5% of the tank volume, ammonia reduction improved by 60% compared to a control tank without PBM.



Algae Control.

Algae blooms form in bodies of water due to excess nutrients. Reducing organics and nitrogen in bodies of water can rebalance the ecosystem and reduce the amount of overgrown algae. Our ceramic media supports the growth of aerobic and anaerobic beneficial bacteria; super-boosting ecosystems to effectively manage and prevent high nutrient inputs.

Our Media offers solutions to the following problems:

- **Algae blooms due to excess nutrient loading**
- **Cyanobacteria growth and treatment-resistant algae**
- **Hydrogen Sulfide buildup at the bottom of the reservoir**
- **Fish kills and loss of other aquatic life**
- **Clogging of pumping, filtering, and metering equipment due to algae**
- **Degradation of physical water quality parameters, i.e. color and smell**
- **Cost of remediation, chemical, and non-chemical treatments**

AUGUST 8, 2019



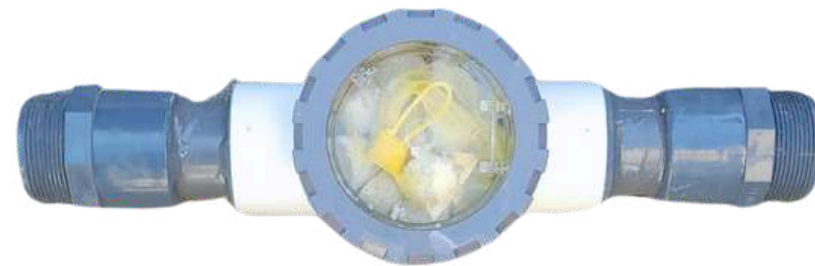
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Water Disinfection.

We offer porous ceramic “briquettes” that can be infused with antimicrobial nano-particles that disinfect the water passing through the ceramic media.

- **Safe and reliable solution for bacteria control without any hazardous disinfection byproducts (DBPs)**
- **Interconnecting pore structure facilitates high flow rate and treatment of large volumes of water**
- **No energy or chemical dosing required**
- **Low to no maintenance required**
- **No moving parts**



- **Neutralizes on Contact**

Effective in neutralizing 99.99% of microorganisms, including E. coli, salmonella, legionella, and black algae.



- **Flexible Application**

Applicable in low and high-pressure systems at varying flow rates, source water accessibility, and temperatures.



- **Manages Water Quality**

Made of non-toxic components and is NSF50 approved. Lab tests concluded consistent 99.99% bacteria disinfection.

Aquaculture.

You can create healthier and more productive environments for raising aquatic species by infusing the media with designer bacteria blends. The beneficial bacteria stay fixed in this ideal inert substrate, allowing the bacteria to consistently lower ammonia levels, organic waste, and significantly increases bottom line profits without additional energy demand, chemicals, or antibiotics.



BIOFLOC
29.5 PCS/KG

PBM
26.5 PCS/KG

- **Lower mortality – survivability rates exceeding 90%**
- **Healthier and more attractive produce for premium pricing**
- **Increases in both size and weight by as much as 12%**
- **Lowering FCR by as much as 6.5%**
- **Reducing operating costs through less chemical product dosing and less water loss during water changes.**



Versatile Solutions for Diverse Applications.

NanoClear Water Solution leads the charge in sustainable water treatment, aligning seamlessly with industry trends and future needs. Our ceramic material's unique features revolutionize water treatment, enhancing efficiency, reducing costs, and promoting environmental sustainability.

Our solution's adaptability and scalability are shaping the future of sustainable water treatment across various applications including wastewater.

- **Its adaptability ensures seamless integration into existing infrastructure, offering sustainable solutions tailored to specific needs.**
- **Our ceramic media offers easy installation with a stackable, modular design adaptable to any plant layout.**
- **Lightweight construction requires no heavy equipment, minimizing installation time and effort while ensuring powerful results with minimal media volume.**



Accelerated Growth Business Strategy

NanoClear Water Solution's model for accelerated growth is to identify, engage, and partner with "Centers of Influence" in applicable commercial, industrial, municipal, and residential sectors.

Having spent many years developing their credibility as industry experts, we provide an opportunity for these Centers of Influence to leverage their contact database and generate additional revenues by making industry-relevant introductions to our NanoClear Water Solution team.

Introducing NanoClear Water Solution's innovative products to your industry specific contacts supports your efforts to provide cutting edge, thought leadership solutions to the people you consult.

