

The Arvia logo is rendered in large, 3D, metallic letters. The letters 'arvia' are filled with a blue-tinted image of water splashing and bubbles. The letter 'a' on the right is filled with a landscape scene of a lake and mountains. Above the 'i' is a small, clear sphere containing a chemical structure. The background is a gradient of blue, transitioning from a darker blue at the top to a lighter blue at the bottom.

Take control of selecting and removing contaminants

## Advanced treatment technology for drinking water, wastewater and water reuse

Availability of clean water is one of the major challenges facing the world today.

As research expands and monitoring techniques improve, new and known contaminants are continually being assessed. Global and local regulations are adapted to reflect environmental and health impacts, constantly challenging efficiencies of treatment technologies.

Arvia's Nyex™ treatment systems offer a cost effective, proven solution for tertiary water and wastewater treatment.

**By continuously removing and treating organic contaminants, Arvia's systems ensure:**

- Wastewater can be safely discharged or reused
- Source water is suitable for specific applications

Protecting health, the environment and business reputations.

**nyex**<sup>™</sup>  
An Arvia Solution

**arvia**  
Safer water for future generations

# Nyex™ Treatment Systems

Highly successful as stand-alone solutions, the Nyex systems are extremely adaptable and can also be utilised to complement other existing or planned treatment processes.



Applications	Benefits
<p><b>COD Reduction</b></p> <ul style="list-style-type: none"> <li>• Reduce hard COD which persists alternative treatment processes</li> <li>• Nyex treatment can achieve trace COD discharge consents</li> </ul> <p><b>Micropollutant Removal</b></p> <ul style="list-style-type: none"> <li>• Tackle part per million to part per billion ranges of pharmaceutical residues, endocrine disruptors, manufacturing chemicals and pesticides</li> <li>• Treatment is proven against numerous compounds of emerging concern, to provide a future-proof solution</li> </ul> <p><b>Colour Removal</b></p> <ul style="list-style-type: none"> <li>• Full colour removal achieved from inks, dyes and sources affecting the aesthetic quality of water</li> <li>• An effective solution against natural organic materials and total organic carbon from potable water supplies</li> </ul>	<p><b>Lower treatment costs</b></p> <ul style="list-style-type: none"> <li>• Energy use in proportion to contaminants treated</li> <li>• No sludge production requiring additional treatment</li> </ul> <p><b>Environmentally friendly treatment</b></p> <ul style="list-style-type: none"> <li>• Free from chemical dosing</li> <li>• In-situ regeneration requiring no off-site trucking or incineration</li> </ul> <p><b>Safe and easy to operate system</b></p> <ul style="list-style-type: none"> <li>• Modular and scalable to suit individual requirements</li> <li>• Low maintenance system requiring minimal manpower and training to operate</li> </ul>

## Industries we work with...

Agriculture and Pesticides  
 Aquariums and Fish Farming  
 Chemical  
 Cosmetic  
 Food and Beverage

Hospital Wastewater  
 Municipal Drinking Water  
 Municipal Wastewater  
 Oil and Gas  
 Pharmaceutical

Pulp and Paper  
 Small Communities  
 Swimming Pool and Leisure  
 Textiles



**This customer journey can be tailored to suit individual requirements.**

As contaminated water is so variable and difficult to reproduce reliably in the laboratory, Arvia performs treatability trials to optimise treatment efficiency. Arvia's application experts and design engineers work to determine the best solution for each treatment challenge, dependant on individual targets for both treatment and cost.