

Company Profile 2026



About AQUAMATRIX

Aquamatrix is a specialist water and environmental engineering company helping industrial and resource-intensive organizations use, treat and recover water responsibly.

We bring process engineering, environmental science and hydrogeology together to deliver integrated solutions across the full water lifecycle - from baseline assessment and design to treatment, recovery and long-term optimization.

Our objective is simple: turn water risk into operational resilience, regulatory confidence and measurable value.



Water challenges become operational advantages

Aquamatrix combines engineering, environmental science and practical digital insight to reduce water risk, recover value and improve long-term performance.

OUR VISION

To be the trusted partner where no usable drop of water is wasted and no harmful effluent is discharged to the environment

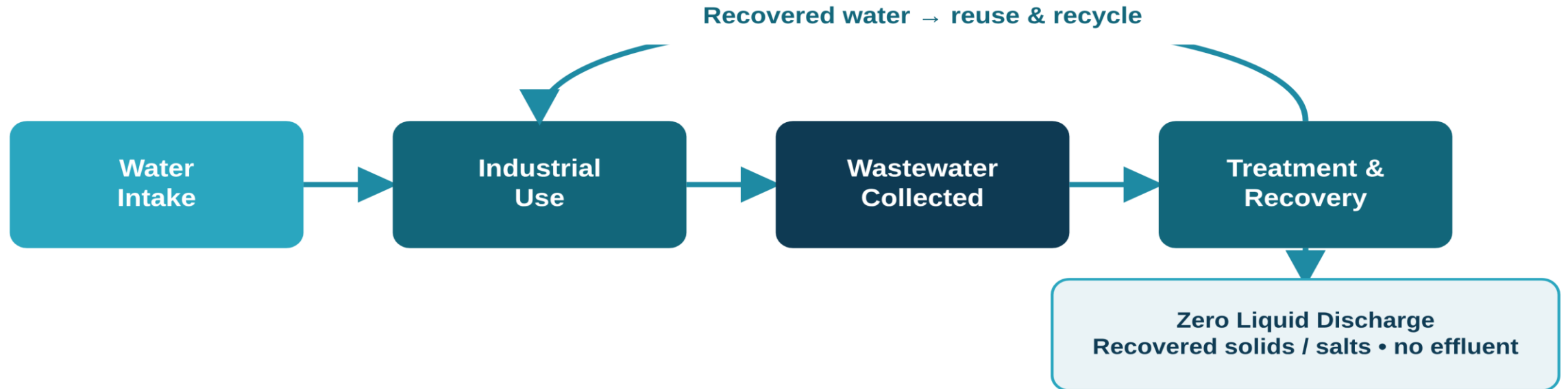
OUR MISSION

Deliver intelligent, reliable and sustainable water solutions that create measurable, long-term value.



A complete portfolio across the industrial water lifecycle

The Aquamatrix Water Cycle — from intake to zero discharge



Better decisions start with a defensible water baseline

01 Water Consumption & Reuse

02 Hydrology Studies

03 Groundwater Assessment

04 Groundwater Modelling

05 Groundwater Treatment



Focused studies that de-risk every design

Defensible, purpose-built studies answer critical technical questions before capital is committed.

01

Compatibility Study

Predict scaling, precipitation and adverse reactions when water streams are blended, reused or reinjected - enabling safe mixing and material decisions.

02

Corrosion Study

Assess water corrosivity, corrosion indices and material compatibility to guide material selection, inhibitor dosing and long-term asset protection.

03

Hydraulic Study

Model flow, pressure, head loss and surge to size pumps and pipelines, remove bottlenecks and support stable, energy-efficient operation.

04

Treatability Study

Use bench- and pilot-scale trials to define the optimum process train, chemical doses and design parameters before full-scale commitment.

Engineering decisions translated into measurable outcomes

- 01 Reduced water risk
- 02 Higher recovery
- 03 Improved compliance
- 04 Lower lifecycle cost
- 05 Operational confidence
- 06 Scalable improvement



1. Zero Liquid Discharge (ZLD)

How Aquamatrix takes your facility from complex effluent to zero discharge — recovering water and solids, eliminating liquid waste.

- 1 Assess & characterize
- 2 Engineer the optimal scheme
- 3 Select the right technology
- 4 Deliver & commission
- 5 Optimize & sustain



Illustrative ZLD train — pre-treatment → RO → brine concentrator → crystallizer, yielding recovered water and dry solids.

Zero

liquid effluent
discharged

95–99%

of wastewater
recovered for reuse

100%

salts recovered as dry
solids

2. Industrial Wastewater Treatment

How Aquamatrix turns complex, variable effluent into compliant, reusable water — reliably and cost-effectively.

- 1 Characterize the effluent
- 2 Design the treatment train
- 3 Select proven technology
- 4 Deliver & commission
- 5 Optimize & sustain



Illustrative treatment train — screening → equalization → aeration → clarification → tertiary/RO, to compliant, reusable water.

Compliant

meets discharge & reuse standards

Reuse-ready

treated water reclaimed on-site

Multi-barrier

physical · chemical · biological

3. Sludge Treatment

How Aquamatrix turns troublesome sludge into a smaller, drier, safely-managed residual — at lower cost.

- 1 Characterize the sludge
- 2 Design the sludge line
- 3 Select proven technology
- 4 Deliver & commission
- 5 Optimize & sustain



Illustrative sludge line — thickening → digestion → conditioning → dewatering, to a dewatered cake for disposal or reuse.

Less volume

reduced sludge to
handle & haul

Drier cake

lower transport &
disposal cost

Compliant

safe disposal or
beneficial reuse

4. Treatment Plant Design

How Aquamatrix takes your plant from concept to construction-ready design — optimized for whole-life cost.

- 1 Set the basis of design
- 2 Concept & feasibility
- 3 Detailed engineering
- 4 Deliver & commission
- 5 Optimize whole-life cost



Illustrative process layout — from inlet works through aeration, clarification and filtration to the clear well.

Build-ready

PFDs, P&IDs & detailed drawings

All disciplines

process · civil · mech
· E&I

Whole-life

low capital & operating cost

5. Evaporation Pond Design

How Aquamatrix designs safe, right-sized, fully-lined ponds to manage brine and reject streams — closing the loop on liquid effluent.

- 1 Size the pond
- 2 Design the containment
- 3 Engineer the civils
- 4 Protect & Leak detection
- 5 Plan closure & salts



Illustrative lined evaporation ponds — brine flows in, solar evaporation removes water, and salts remain as solids.

Low-energy

No-power brine management sink

Fully lined

leak-protected, ground-safe

Compliant

No discharge, salts recovered

6. Produced Water Optimization

How Aquamatrix finds the most cost-effective, compliant way to handle oilfield produced water — reinject, reuse or dispose.

- 1 Characterize the stream
- 2 Assess treatment options
- 3 Evaluate management routes
- 4 Model the techno-economics
- 5 Recommend the optimum



Illustrative produced-water flow — from the well, through separation and treatment, to reinjection, reuse, or disposal.

Lower cost

optimized CAPEX &
OPEX

Reuse & recovery

water recovered, not
wasted

Compliant

safe, permit-ready
routes

7. Hydrology Studies

How Aquamatrix quantifies surface-water behaviour — runoff, drainage and flood risk — to underpin safe siting and design.

1 Delineate the catchment

2 Model rainfall–runoff

3 Assess flood & drainage

4 Evaluate water resources

5 Support permits & design



Illustrative catchment — rainfall and runoff converge to a monitored river channel, informing yield, drainage and flood assessment.

Flood-safe

assets protected
from flooding

Permit-ready

approvals &
compliance support

Design basis

hydrology for ponds
& plants

8. Groundwater Assessment, Modelling & Treatment

How Aquamatrix helps you understand, protect and treat groundwater — from the aquifer to fit-for-purpose supply.

- 1 Characterize the aquifer
- 2 Build the groundwater model
- 3 Design abstraction & protection
- 4 Treat the groundwater
- 5 Monitor & safeguard



Illustrative groundwater system — abstraction and monitoring wells, water table and drawdown, with treatment to fit-for-purpose water.

Secure supply

sustainable, reliable
yield

Predictive model

drawdown &
contaminant insight

Fit-for-use

potable or process-
grade water

A disciplined path from evidence to implementation

Our stage-gated methodology reduces technical and commercial risk. Each phase produces defined deliverables, a clear decision point and the evidence needed before the next investment commitment.

Our Approach — a disciplined, stage-gated methodology



Get in Touch

Let's create more value from every drop

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Let us discuss your water challenge and define the right next step.



OUR SERVICES

- Zero Liquid Discharge (ZLD)
- Sludge Treatment
- Industrial Wastewater
- Treatment Plant Design
- Evaporation Ponds
- Produced Water Optimization
- Hydrology Studies
- Water Audit & Reuse
- Groundwater Assessment, Modelling & Treatment

Engineering Every Drop Toward Zero Waste