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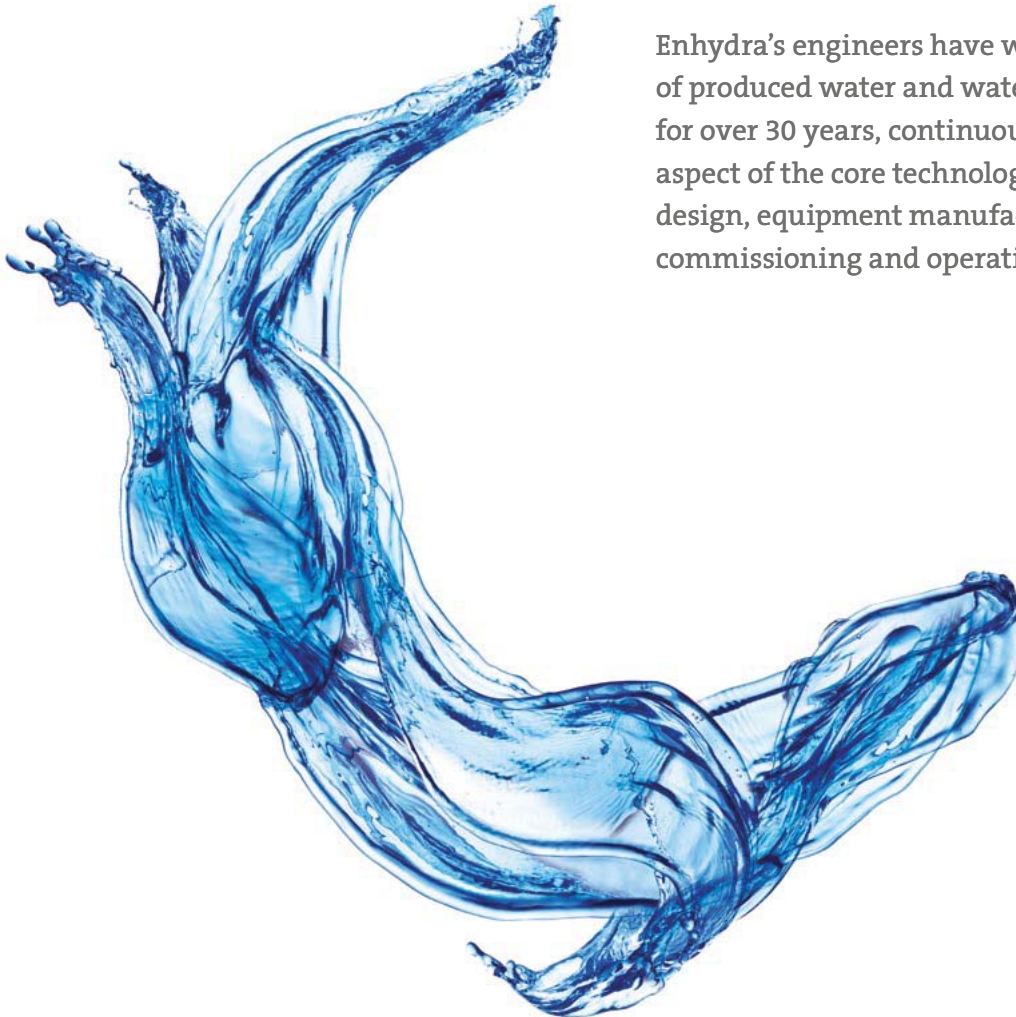
# OILFIELD WATER TREATMENT

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Are you meeting discharge limits today, will you meet them tomorrow?  
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Have you optimised your water treatment systems?  
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Are you using the latest water treatment technology?  
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## **WHEN IT COMES TO WATER TREATMENT, WE ARE IN OUR ELEMENT.**

Enhydra is an oil industry process company specializing in the fields of produced water treatment and water injection systems. Our core business is the supply of process engineering and internals for produced water systems, water injection systems and sand management systems.

Enhydra's services include system studies and reports, site surveys, equipment pilot trials and rental units.

Enhydra's engineers have worked in the fields of produced water and water injection systems for over 30 years, continuously involved in every aspect of the core technology from R&D, detailed design, equipment manufacture through to commissioning and operation.



## Enhydra – Oilfield water treatment specialists



### Process Design, Internals and Guarantee

Enhydra supply our technology partners with process design, key internal equipment and process guarantee for PWT and WI systems.

- Fabrication local to end user or project
- Trusted and preferred suppliers
- Increased local content
- Cost effective solutions
- New markets and products



### System Studies and Site Services

Enhydra provide consultancy and system studies for existing process equipment. We deliver practical reports, identifying process improvement solutions and recommending the best technology for the application.

- System studies
- Healthcare plans
- Debottlenecking
- Equipment trials
- Fast track upgrades
- Retrofit equipment
- New equipment



### Rental and Pilot Units

Enhydra provide a full range of trial and rental equipment which can be deployed at short notice for use in operations such as:

- Well testing
- Early production systems
- Maintenance activities
- Production profiling
- Temporary solutions

#### Available technology includes:

- Deoiling hydrocyclones
- Desanding hydrocyclones
- Compact flotation
- PS85 oil absorption filters
- Sand treatment

*Desanding Pilot Unit*



*Wellhead Desander*



## Enhydra – Oilfield water treatment specialists

Enhydra is one of the most prolific suppliers of expertise and equipment for Produced Water Treatment and Water Injection Systems in the world. We have worldwide project experience with all the major oil companies. Enhydra is one of the few companies that provide the full range of PWT and WIS technologies:

### Produced Water

- Corrugated plate interceptors
- LL15 deoiling hydrocyclones
- Desanding hydrocyclones
- Vortixx® compact flotation unit
- Induced gas flotation
- Mercury removal
- PS85 oil absorption media
- Nutshell filters



### Sand Management Systems

- Wellhead desanders
- Vessel desanding systems
- Sand washing systems

### Water Injection

- Multi media filters
- Vacuum deaeration tower
- Vacuum pump packages



*Flotation Internals*



*Filter Lateral*



*High efficiency PS85 absorption cartridge*

## Technology Comparison

	Target or Typical Performance	Pressure Range	Inlet Loading	Residence Time	Duty	Typical Application
Corrugated Plate Interceptors	100 ppm OIW	Low to medium	High	High	Primary	Onshore
LL15 Deoiling Hydrocyclones	25 ppm OIW	Medium to high	High	Low	Primary/Secondary	Both
Vortixx® CFU	10 ppm OIW	Low to medium	Medium	Low	Primary/Secondary	Offshore
Induced Gas Flotation	10 ppm OIW	Low to medium	Low	Medium	Secondary/Polishing	Both
PS58 Oil Absorption Media	1 ppm OIW BTEX	Low to medium	Low	Low – Cartridges High – Bulk Bed	Polishing	Both
Desanding Hydrocyclones	10 – 40 micron solids	Medium to high	High	Low	Primary/Secondary	Both
Nutshell Filters	5 ppm OIW 5 – 10 micron solids	Low to medium	Low	High	Polishing	Onshore
Sentinel Filter	5 ppm OIW 2 micron solids	Low to medium	Low	Medium	Polishing	Both

Actual product performance will vary depending upon process conditions. This table should be used as a guide only. For specific application contact Enhydra.





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