



## Enviss Mobile Filtration

Meet your environmental water discharge requirements with Enviss Mobile Filtration, for dewatering site run-off, groundwater and treatment of washdown water. Typically, turbidity can be reduced from >300 NTU to less than 5 NTU.

Projects include building construction, road construction, mining and tunneling.

Enviss systems treat and remove suspended solids, nutrients, heavy metals and hydrocarbons from polluted water sources. The systems are fully automated, and combine detailed water quality monitoring and data logging with on-site service to meet compliance requirements.

# Envis Mobile Filtration

Treatment of water run-off and discharge is an increasingly important component to any major construction project. Envis Mobile Filtration combines a container filter system with real-time monitoring and on-site service to ensure all water discharged meets relevant water quality standards. Patented Envis technology maximises flow rates and minimises lifecycle cost of water treatment.

## Mobile Water Treatment

The Envis Mobile Filtration system is a turnkey water treatment solution available for hire. Applications include:

- Dewatering site run-off
- Dewatering groundwater
- Treatment of washdown water

Each system houses a complete three stage treatment train (screening, flocculation and sedimentation, media filtration) capable of removing sediment loads.

## Environmental Discharge

The service is customised for each application to ensure local and site-specific discharge requirements are met. In many cases this includes direct discharge to waterways

## Water Quality Monitoring

Water discharged from the system is constantly analysed in real-time for the following parameters

- Flow rate
- Volume treated
- Turbidity
- Electrical conductivity
- pH
- Temperature
- Filter pressure
- Pump activity
- Chemical tank level

The values are available for instant review on the system control panel

## Data Logging

In addition to displaying instantaneous water quality parameters, data is logged to a remote server using a mobile data connection.

This raw data can be easily accessed via the internet, and requires no training in the operation of the logger.

## Reporting

Envis can generate daily, weekly and monthly reports that summarise the raw data for water quality and system operation. These can be directly emailed to the site supervisor or environmental officer for review.

These reports can be used to assess system operation and identify trends to ensure ongoing treatment performance and compliance.

## Site Reuse

Treated water can be used on-site for washdown, dust suppression, site toilets or other processes.



## Specifications

Treatment	
Treatment rate	3.6-20 m <sup>3</sup> /hr
Screenings storage	10 L
Sludge storage	150 L
Supply voltage	230V AC 50Hz
Connection	2x 3 pin 15A plug
Housing	ISO Standard 20ft shipping container
Dimensions (l x w x h) (m)	6.06 x 2.42 x 2.59
Inlet	80mm (3") male camlock
Outlet	80mm (3") male camlock
Waste outlet	80mm (3") male camlock
Dosing systems	2
Internal chemical storage	2x 200 L
Maximum chemical delivery	7 L/h
Monitoring	
Turbidity range	0 to 400 NTU
EC range	0-0.999 µS/cm to 0-999.9 mS/cm
pH range	0.00 to 14.00 pH
Temperature	-10 °C to +160 °C

## Typical Pollutant Removal Rates

Pollutants	Australian Run-off Quality Guidelines	Enviss Mobile Filtration System
Total Suspended Solids	80%	93%
Total Phosphorous	45%*	64%
Total Nitrogen	45%	78%
Aluminium		74%
Cadmium		93%
Chromium		86%
Copper		84%
Iron		80%
Lead		69%
Zinc		85%
Total Poly Aromatic Hydrocarbons		Not detected

\*(60% in south-east Queensland)

Based on typical stormwater pollutant loads. Previous projects have achieved turbidity reduction from >300 NTU to <5 NTU depending on clay content.





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