

MEVA OCS

*Odour control system
Alingsås WWTP*



Case story: Alingsås WWTP

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Initial Position:

The Waste Water Treatment Plant in Alingsås, Sweden, was in a state of re-equipping their mechanical treatment step. Adding to the existing MEVA screens MEVA Screw Wash Press, MEVA Counter Pressure Screw and MEVA Sand Washer were installed. With new improved machinery the plant personal also wanted an environment that was pleasant to work in.

Solution:

MEVA installed NWACS-AS-3300 OCS from our South-American partner Nordic Water South-America. This impregnated and catalytic activated carbon filter transforms Hydrogen Sulphide, Methyl Mercaptans and Ammonia to harmless and, equally important, odourless substances. The ventilation inlets were connected to the screens, the sand washer and the containers for screenings and sand. The air was led through a mechanical particle filter into the Odour Control System and then to the fan, placed on the outside of the roof.

Result:

The odour in the mechanical treatment room was greatly improved. The cleaned air was even so free of odours and dangerous substances that it could be re-circulated. This was a success not only in the working environment but also economical when the heating cost of the room could be decreased during the cold months of the year.

Product information NWACS-AS-3300

Type of carbon: 100 vol% impregnated and catalytic activated carbon with the affinity for H₂S and VOC.

Capacity of Flow: 1200 m³/h

Estimated length of life for the carbon: ~8 years

Canister:

Stainless Steel: EN 1.4301

Diameter: 1000 mm

Height of adsorber bed: 910 mm

Designing limits:

Because of the low odour threshold (~0,2 ppm) of Hydrogen Sulphide we use it as the dimensioning substance.

Average inlet H₂S concentration: 2 ppm

Average outlet H₂S concentration: <10 ppb

