

ENVIRONMENTAL TECHNOLOGY

SUIKER UNIE - Dinteloord (NL) Erection additional clarifier

Suiker Unie Dinteloord is a production site of the Suiker Unie group. At this facility sugar is produced. The sugar originates from sugar beet each year from September to the end of January.

In order to be able to realize the expansion of the production capacity, the existing waste water treatment had to be modified. A preliminary study has shown that the existing sedimentation capacity of the biological treatment wasn't sufficient enough. As a result Trevi doubled the capacity.

Trevi was commissioned to build this additional clarifier and to fully integrate it into the existing water purification infrastructure. Final project commissioning was achieved within 6 months in order to be able to treat the waste water for the next sugar beet season.



New Clarifier



Thanks to this additional infrastructure, the Suiker Unie can increase the production capacity from 22,000 to 25,000 tons of sugar beet per day.

The new clarifier has a hydraulic capacity of 370 m³ / hr and brings the total capacity of the wastewater treatment plant to 850 m³ / hr.

The complexity of this project consisted of obtaining a proportional distribution of the waste water between the two settlers. Trevi also placed large underground pipelines in an area already occupied by all kinds of underground infrastructures (gas, water, electricity, sludge, ...).

Discharge standards		
Parameter	unit	standard
COD	mg O ₂ /l	<125
BOD	mg O ₂ /l	<15
Total nitrogen	mg/l	<15
Total phosphorus	mg/l	<2
Suspended solids	mg/l	<15
Chlorides	mg/l	<200
O ₂	mg/l	>6
Temperature	°C	<25
pH	pH	6,5 - 9,0



New discharge infrastructure for effluent, sludge recycling and floating sludge evacuation



Construction of feed pipe to clarifier



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Trevi is a Belgian company with a team of specialised professionals at its disposal: environmental consultants, process experts, programmers and installers. This diversity offers you as a client the advantage to solve all environmental problems with only one partner in all disciplines: water, air, soil and energy as well. Our consequent approach by research, pilot tests, design, realisation, start-up, follow up and exploitation guarantees the provided quality.