Neutralac®

Calci-action®
Case study N°2

Integrating a sludge stabilisation process in a mobile treatment unit

Defining the issue

The sewage services company Gesset had invested in a mobile centrifuge dewatering unit. In order to expand the services it was able to offer, Gesset wanted to incorporate a sludge stabilisation process which would allow it to meet the needs of both the agricultural recycling and the local landfill requirements.

The specifications outlined several requirements:

- autonomous operation (no more than one reagent delivery per processing day)
- a process sufficiently flexible to work effectively on all types of sludge
- equipment which allows the operators to carry out their own maintenance

The solution

From a wide range of Calci-action® answers, Lhoist chose the one which provided the greatest flexibility for operation and maintenance of the mobile unit.

The customer's mobile treatment unit with integrated Stabi-Matic® 3 module

This complete solution integrated:

- a detailed analysis, with the customer, of the performance of Calci-finishing (post-dewatering treatment) in terms of dryness and biological stability
- an engineering analysis of the size constraints for positioning the units for mixing and storing the reagent, which is delivered in 25 kg bags
- the installation of a Stabi-Matic® 3 unit with a storage capacity of 1.5m3 for the selected Neutralac® reagent
- recommended operating parameters
- regular deliveries of Neutralac® Q and technical assistance

Conclusion

Lhoist met the expectations of this service provider through:

- a process capable of continuously producing stabilised, structured and more thoroughly dewatered sludge
- a stabilisation process integrated with the mobile dehydration unit
- the reduction of maintenance costs by choosing simple but effective reagents and equipment

This solution has been working effectively for Gesset since 2001.

Lhoist

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