



The wastewater accumulates and evaporates from the storage pond



Calci-action® Case study N°8

Controlling noxious odours from settling ponds

The problem

A co-operative oil mill in southern France (Le Moulin de Villevieille, Sommières) discharges waste mill water into a storage pond where it evaporates. The pond is some way from the mill and used to be the source of unpleasant odours. The mill co-operative, in partnership with French National Institute for Agronomical Research (INRA), sought ways and means of abating these noxious odours.

An acceptable solution to the problem entailed three conditions:

- Be simple and easy-to-operate; no availability of piped water and electricity near the site
- Be effective in controlling the odours
- Require minimum operating costs

The solution

From the available Calci-action® range of options, Lhoist selected a ready-to-use reagent package comprising:

- Provision of Lhoist knowhow about products, processes, laboratory testing and dosing
- Selection of a ready-to-use Neutralac® reagent, with data about composition, concentration and dosage rates (in this case a 1:40 reagent/wastewater ratio by volume)
- Analysis of the most suitable, cost-effective reagent application technique without entailing on-site investment costs (in this case a road tanker, with a suitable discharge pipe)
- Deliveries of Neutralac® SL30 reagent together with the necessary handling equipment

Conclusion

Lhoist matched the demands of the co-operative:

- By taking overall project responsibility and liaison with the interested parties
- Through long term wastewater treatment service, renewed in 2004
- By providing total solution at minimal cost
- Because simple in situ application methods were employed
- By results; a good deodorising performance

This complete solution has been successfully adapted to treat :

- Industrial settling tanks: acid neutralisation and metal precipitation
- Urban waste settling tanks: deodorising and source of calcium



Discharging dosed quantities of Neutralac® SL30 into the pond



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