

# Case Study

## Odor Continuous Emission Monitoring System

### Ferso Bio Rendering plant



For more information:  
[www.odotech.com](http://www.odotech.com)

Location:	Le Passage (France)
Start of project:	2004
Commissioning:	2005
Client:	Ferso Bio
Distributor:	Odotech Inc.
OdoWatch System:	1 electronic nose, OdoWatch software for modeling atmospheric dispersion of odors, weather tower

### Background

For over 30 years, the Ferso Bio rendering plant has collected and processed animal waste from livestock and slaughterhouse operations from 14 counties in south-western France. Located in the town of Passage near Agen, Ferso Bio began early its investigation into understanding and reducing its odoriferous emissions.

The residents of Agen and Passage were invited to contribute to the process through information meetings with corporate representatives and a neighborhood committee. The need for rapid response to unpleasant odor incidents encouraged Ferso Bio to install a continuous odor monitoring system.

### Odotech Assignment

Odotech began by installing a continuous odor measurement OdoWatch system consisting of 1 electronic nose. This was used to measure the emissions from the biofilter deodorization process, within the buildings. This source of odor had been identified by the members of the neighborhood committee, coordinated by Odotech, as the main source of perceived olfactory distress, a result supported by measurements taken during the initial site reconnaissance. Using the OdoWatch software, the atmospheric dispersion of odors is now calculated in real time, which makes it possible to see which zones in the nearby environment are impacted by site emissions.



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### Principal Outcome

Rather than reinvest in processing solutions to reduce odor impacts, Ferso Bio focused on optimization of biofilter performance using the measurements provided by the OdoWatch system. The work performed allowed them to noticeably reduce the concentration levels of their emissions and to smooth the previous fluctuations in the efficacy of the deodorizing process.

The use of OdoWatch has allowed Ferso Bio to respond rapidly and objectively to any notification of odoriferous incidents. Through continuous and ongoing assessment of any olfactory nuisances that might get by the biofilter, Ferso Bio is now able to determine whether it is responsible for the perceived nuisance odor, and to respond quickly.

In 2008-2009 Ferso Bio will install 3 additional electronic noses that will allow it to monitor emissions across the entire site.

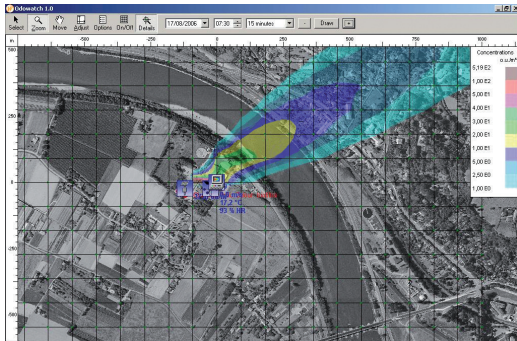


Illustration: atmospheric dispersion of odors model

*"Thanks to the electronic nose, we were able to determine that some of the olfactory nuisances did not come from our activities, but from the nearby waste incineration plant, or the nearby treatment plant."*

Jacques Surles, Ferso Bio President, in an interview with L'Usine Nouvelle magazine on June 13, 2007

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Odotech Inc. is a leading designer and producer of odor measuring and monitoring systems. It carries out odor impact and other related studies as for governments, waste disposal and waste water treatment operators, industries and other organizations facing odor issues, worldwide.

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