

Briefing on visit to Schultz, Visbek Germany



Briefing Purpose

- In May 2016 nominated Members of the Planning Committee accompanied by Officers undertook an information gathering trip to Visbek in Germany.
- This visit was to allow these Planning Committee Members and Planning Officers to get a fuller understanding of the technologies proposed for the pig farm proposed at Reahill Road.

Why Germany?

- Hall's pig farm proposes the use of air scrubber technology.
- This technology is not available in the UK or Ireland.
- The trip seeks to gain an understanding of this technology.

German Context

- Agriculture is the primary industry in North West Germany.
- Due to the concentration of pigs in this area air scrubbers became necessary.
- Initially brought in to reduce odour.
- Today due to higher environmental standards the reduction of dust and ammonia has become more important.

SCHULZ Systemtechnik



- Leading developer of automation solutions for various industries.
- Founded in 1954 in Lower Saxony Visbek.
- Began as a classic craft business for electrical installations, has now developed into an internationally operating group of companies.

Exhaust Air Scrubber System

- SCHULZ provide long-standing experience and research and development work on multiphase exhaust air scrubber systems.
- Schulz provide the following services:
 - > Support for approval procedures
 - > System planning
 - > System installation
 - > Commissioning
 - > Training
 - > Maintenance

What is an Exhaust Air Scrubber System

- It is an extremely effective means of reducing ammonia, dust and odours but it also increases acceptance in the surrounding area and protects the environment

What does an Exhaust Air Scrubber System do?

Technology

Chemical/biological exhaust air purification

Separation performance

≥ 90 % NH₃

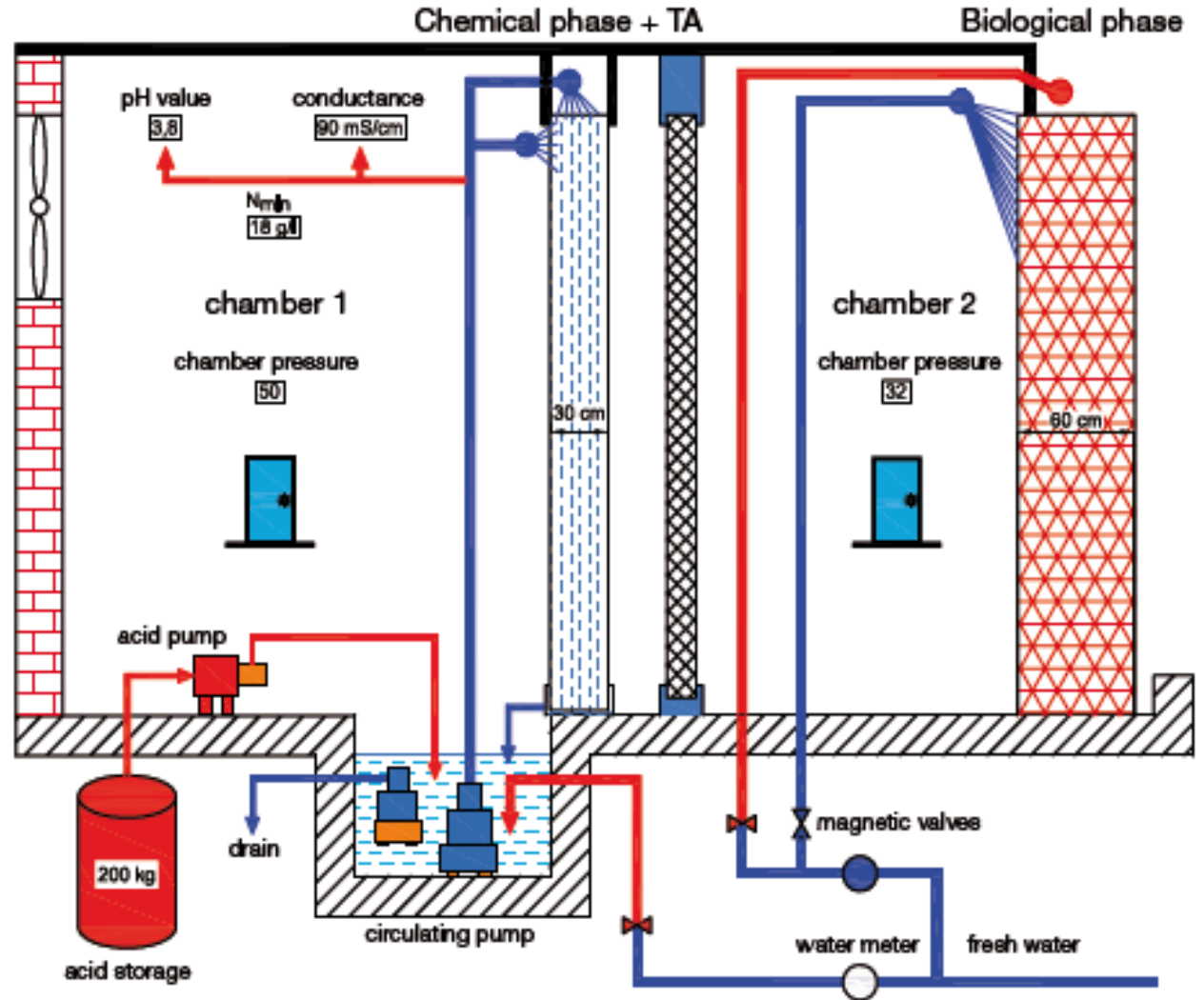
≥ 90 % dust

< 300 GE/m³ (no raw gas odour is perceptible)

Advantages

- Easy and safe control technology
- Significantly less wastewater production than in purely biological processes
- High operational safety
- No long adaptation times of the nitrifying biology with limited reduction effort

*Schematic representation
of two-phase chemical
exhaust air purification
with a droplet separator
for pigs*



Trip Itinerary

- Wednesday 25/05/2016
- 3 Site visits:
 - C.Rotgers (pig farm)
 - H. Kruthaup (Pig Farm)
 - Goldschmaus (slaughter house)
- Thursday 26/05/2016
 - Visit to Schulz Systemtechnik

Site 1

- **Rötgers Christoph**
- **Möhlendamm 4**
- **49393 Lohne**
- No. 1 840 fatteners (2004)
- No. 2 1200 fatteners (2012)
- Scrubber distance to next residential house: 225m

52°40'33.60" N

8°14'59.55 O



Rötgers Christoph, Möhlendamm 4, 49393 Lohne

Bio Filter







Acid Filter



Ventilation system



Air Inlets



Exhaust fans drawing air to the scrubber system



Site 2

- **Heinrich Kruthaup GmbH**
- **Dammer Straße 8**
- **49401 Damme**
- No. 1 832 fatteners (2011)
- No. 2 832 fatteners (2011)
- No. 3 1936 fatteners (2006)
- No. 4 2992 fatteners (2011)
- Distance to next residential house: 246m

52°30'39.64" N 8°13'13.87" O

Dammer Str

Im Kämpen

Borri

Auf den

L80

Heinrich Kruthaup GmbH, Dammer Straße 8, 49401 Damme





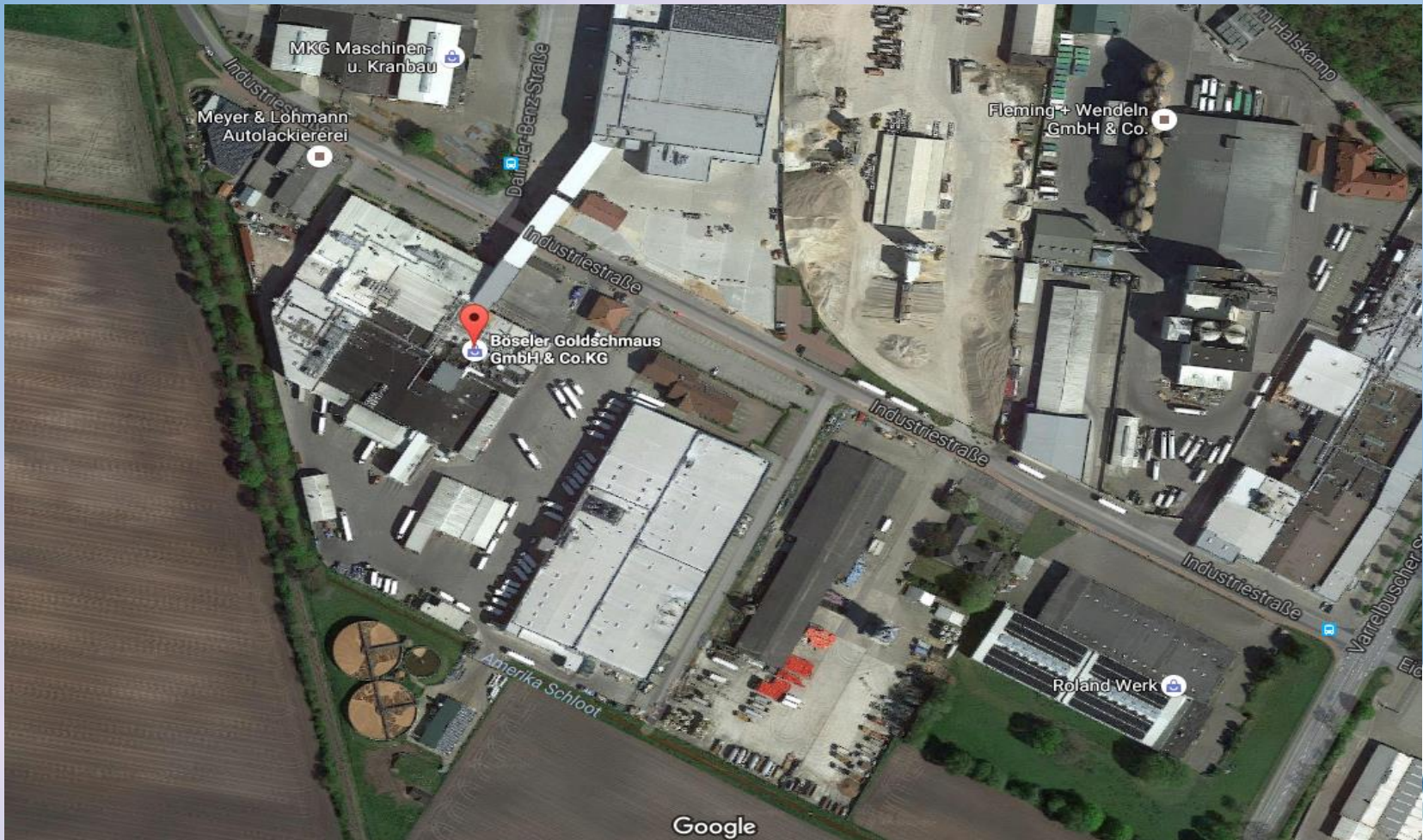






Site 3 Goldschmaus

Slaughter House







Questions