



Steps
Cripps Corner, Staplecross
East Sussex, TN32 5RY

Tel: 01580 831223
Fax: 02070678482
sales@goctechnologies.co.uk

Chicken Manure Compost Deodorization

Spring 2002 –

Little Hanaford Farms; Centralia, Washington, USA

Little Hanaford Farms is the longest running continuous user of BAT 506 in the US. This commercial operation began using 506 in the spring of 1999. Since that time, odour complaints have been eliminated, the facility has tripled its intake (and output), and currently sells a high-grade, odour free finished product.

Procedure: The basic stages of the process, mixing, formation, primary and secondary decomposition, and screening are accomplished outside. Final maturation occurs under roof. A mixture of chicken DAF (parts), feathers, and blood is received several times a day in tanker trucks. The trucks pump their contents into a defined, burned area. The BAT 506 is added into this liquid mixture. Front-end loaders then push wood chips at a ratio of 2.5 parts chips per one part liquid into the mixing area. The chips are mixed until the liquid is absorbed and the entire mixture is moved to the composting area. The mixture remains in the pile for 28 to 35 days without disruption. The pile is then moved to an adjacent position on the pad and allowed to stand another 20 to 25 days. No mechanical aeration is included other than the moving of the pile.

Results: Elimination of turning has contributed to major decreases in odour production. Additionally, the treatment significantly decreases odour at the surface of the materials. Decomposition rates have improved noticeably, allowing a 9 to 12 week composting process (depending on time of year) with 3 to 6 months of maturation. Finished product has lost all smell of chicken waste and maintains an organic, rich "dirt" smell. More efficient use of physical space and elimination of odour problems have allowed major increases in incoming tonnage. (The facility now accepts 40,000 tonnes annually up from 12,000 to 15,000 tonnes in 1998.) Better finished, more consistent compost and more volume have allowed development of an active market for the final product. Compost sales currently equal or exceed production.

Conclusion: **BAT 506** has been and continues to be extremely effective at controlling odours in these wastes, and has allowed Little Hanaford Farms to flourish with materials typically considered major problems and nuisances. BAT 506 has now been a component of every tonne of LHF's compost for 38 consecutive months. To contact Little Hanaford Farms, e-mail Mr. Dennis Felt, owner and manager, thefelts@quik.com or phone 001360 736 6673 in the USA.