

ENVIRONMENT

Title: Evaluation of dust and pathogens in air exhausted from swine facilities
NPB #00-088

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Abstract:

Five swine finishing buildings were identified in which *Salmonella* organisms were recovered from pen fecal samples. On a weekly basis for 5 weeks, fecal samples were collected from the pens, dust levels were recorded for a 24-hour period both inside and outside the building, and air was sampled both inside and outside the building by drawing it through filters for a 24-hour period. The filter papers were then cultured for salmonellae and *Escherichia coli*. *E. coli* organisms were recovered from some of the indoor and outdoor filters. No *Salmonella* spp were isolated from either the indoor or outdoor filters at any of the five *Salmonella* fecal-positive facilities. Dust levels varied markedly between facilities but were unrelated to the finding of *E. coli* organisms on the filter papers.

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