



WE SOLVE ODOR!

Take Back Control Of Odors At Your Facility
Increase Plant Capacity / Reduce Operating Costs



AGRICULTURE MANURE TREATMENT

DAIRY OPERATIONS

DAIRY RESEARCH AND
TECHNOLOGY CENTRE (DRTC)



146 Holstein cows in 350 ft main barn with 146 tie stalls

The Challenge/Problem

Manure from cows was creating high H₂S levels in the manure collection room and the liquid storage tank building at the University of Alberta Dairy Research and Technology Centre.

- Elevated H₂S concentrations were causing staff and worker odor complaints
- Liquid manure in storage tanks was creating excessive foaming when pumped into tanks
- Increased pump-out frequency required to avoid foam overflowing from tanks was causing increased hauler costs

SciCorp Treatment Plan and Execution

DRTC was interested in conducting a trial using BIOLOGIC™ SR2 to determine if it could eliminate the H₂S odors and excessive foaming in the storage tanks. SciCorp engineers worked with DRTC operators to implement a treatment approach.

- ✓ BIOLOGIC™ SR2 was added to the 300 gallon liquid manure collection tank at a dosage rate of 1L, twice per day, during the collection of the manure liquid from the barn floors.
- ✓ Liquid from the 300 gallon collection tank was then pumped into the separate storage building and stored in the 4 x 9000 gallon storage tanks.

Success

The treatment program evaluated the data before and after the use of BIOLOGIC™ SR2 over a period of 124 days. Results showed a significant improvement in indoor air H₂S concentrations and also in the number of pump-outs required for the 9000 gallon tanks.

Long-term benefits included:

- Significantly reduced H₂S levels in the manure collection room and liquid manure storage tanks from an average of 20 ppm to 0 ppm.
- Eliminated odor complaints from staff
- Eliminated foaming in the storage tanks
- Reduced storage tank pump-out frequency by 50%
- Achieved monthly cost savings due to reduced pump-outs (\$1,178/Month)

Problems Avoided

As a result of their partnership with SciCorp DRTC was able to avoid:

- Odor complaints /health issues with workers
- Elevated operating costs

[WWW.SCI Corp.NET](http://www.scicorp.net)

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