

Getting the Most out of your Short Term Manure Storage



Regulations?
Challenges?
Advantages?

Advernment



What do I mean?



Confined Feeding Operation



Short Term Solid Manure Storage



What do I mean?



Act and Regulations



AGRICULTURAL OPERATION

Revised Statutes of Alberta 2000 Chapter A-7

PRACTICES ACT

Current as of November 1, 2014

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AGRICULTURAL OPERATION PRACTICES ACT

STANDARDS AND ADMINISTRATION REGULATION



With amendments up to and including Alberta Regulation 31/2014

Office Consolidation

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Short Term
Manure
Storage

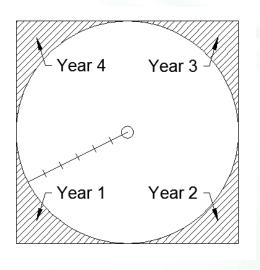
http://www.qp.alberta.ca/documents/Regs/2001_267.pdf

http://www.qp.alberta.ca/documents/Acts/A07.pdf



Regulations

Accumulated total of 7 months over 3 years



Field w/ Pivot Example

 Minimum 150 m from the nearest residence (not owned by operator)

Regulations

 Meet setbacks from water wells, springs, common bodies of water

 1 m above water table and 1:25 yr flood level (or max flood level)

IRONMENTAL STEWARDE ENVIRONMENTAL



Regulations

Environmental Standards for Alberta's Livestock Industry



Agricultural Operation Practices Act (AOPA)

A guide to the legislation for confined feeding operations (CFOs) and manure management requirements for all agricultural operations in Alberta, including 2006 amendments



2008 Reference Guide (available on-line or hard copy)

http://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/epw5592



Site Selection

- Good road access
- Avoid areas that flood (surface water)
- Manage run-off



Site Selection

- Odour consideration
 (camp ground, golf course, rural church, etc.)
- Road visibility (especially at intersections)
- Nutrient accumulation





Challenges



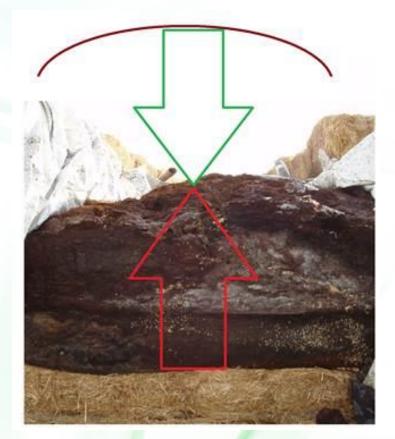
Loading the manure twice! (pen and field)

Field Logistics

Alberta

- Flexibility
 - Increase manure hauling days
 - Timing around pen vacancy
 - Protect the pen floor (frozen or dry)
 - avoid road bans and damage to rural infrastructure
- Access to custom applicator service (off-season, bigger equipment)

- Composting Strategy
 - Reduced volume/mass
 - Acts more as a fertilizer
 (after its broken down)
 - Pathogen destruction



ENVIRONMENTA



Improved manure consistency



Alberta Government



Fall



Winter







Frozen and Snow Covered Ground



Short Term Solid Manure Storage



Questions/Comments



- Photos
 - Karl Ivarson, Kevin Seward (NRCB)
 - Tim Reuter (ARD)
- Information
 - Trevor Wallace, Chris Ullmann (ARD)



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