

# AER Landspray While Drilling Requirements

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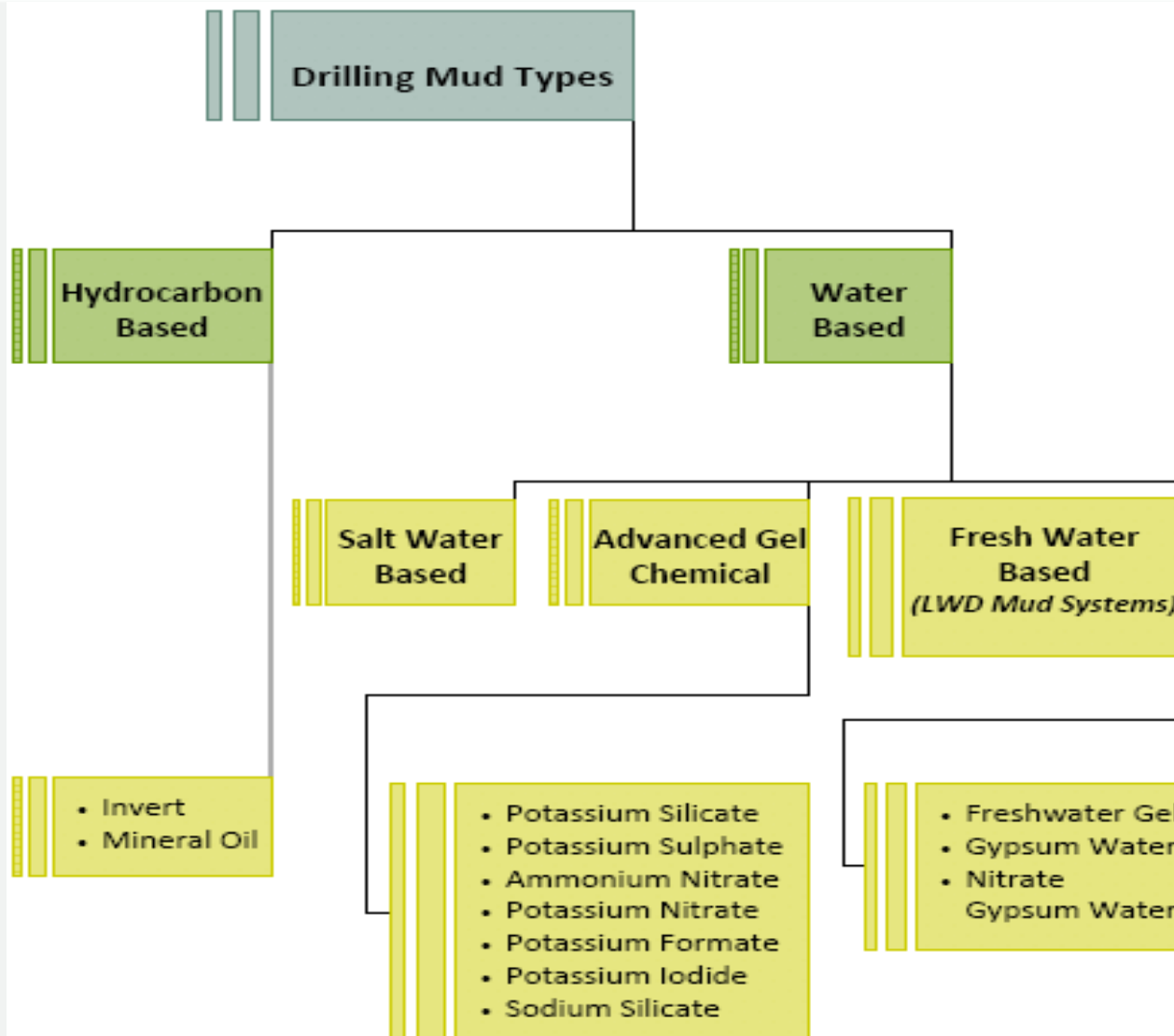
# Topics to be discussed

- › Common types of drilling waste
- › Drilling waste disposal methods
- › Landowner consent requirements

# AER Drilling Waste Definition

Drilling waste is the mud and cuttings generated while drilling a well (including oilsands exploration wells) and directional drilling for the purpose of pipeline construction.

# Common types of Drilling Mud



# Disposal of Drilling Waste

- › Landspread
- › Mix-bury-Cover
- › Pump off
- › Landspray
- › Landspray while drilling



# Landspray



# Landspray While Drilling (LWD)





# Incorporation





# Landowner Consent is required to

- 》 manage drilling waste beyond the well site or pipeline-right-of-way boundaries
  - 》 landspray,
  - 》 landspray-while-drilling
  - 》 pump-off method
- 》 place cement returns in pits on a well site or remote drilling waste storage site when the collective area of one or more pits exceeds 4 m<sup>2</sup>.

# Company Obligations

- Limited to non-toxic water based drilling muds
- Testing Requirements:

# Problems – too steep

Slope of the land – 5% in summer and 3% in winter (so flat)



# Problems – too close to waterbody



100m of a water body (that includes a ditch) unless the water body is up hill from the spreading or there is a physical barrier



# Problems – too wet



Rutting from tires causes clumping and pooling  
therefore is a non-compliance

# Problems – to thick

Spread rate  
requirements to  
prevent  
clumping and  
pooling



# No Problems



# Landowner Obligations

- 》 Can refuse consent to dispose of off-lease
- 》 Can request baseline sampling of receiving soils
- 》 Can request post-disposal sampling
- 》 Must make companies aware of previous applications



# Pipeline Specific

- » Landowner consent not required for pipeline waste disposal within a disturbed pipeline right-of-way using mix-bury-cover or landspread.
- » Disposal of drilling waste on a pipeline right-of-way is limited to those generated from construction of the pipeline associated with the right-of-way.

# Web Page Information

## Directive 050

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### RULES & DIRECTIVES

[Acts, Regulations & Rules](#)

[Bulletins](#)

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### Directive 050: Drilling Waste Management

[VIEW PDF](#) (1062.15 KB)

Release Date: May 02, 2012

Replaces the previous edition released on Oct 01, 1996.

Released with [Bulletin 2012-08](#).

### RELATED INFORMATION

[By Topic: Waste Management](#)

### Drilling Waste Management

Contains information on sampling requirements, analytical requirements and procedures, disposal criteria, and documentation relating to drilling waste management and disposal.

## Attachments

- Summary of Stakeholder Feedback and ERCB Responses on the 2012 revision of Directive 050 [\[PDF\]](#)
- *Directive 050* (1996 edition) [\[PDF\]](#)
- [Frequently Asked Questions](#) (September 2012)
- [Frequently Asked Questions](#) (May 2012)
- [Drilling Waste Notification Requirements](#) (October 2013)
- Table of Concordance: provided to assist in understanding the newly released 2012 edition both in terms of where requirements were previously located and which sections are new [\[PDF\]](#)
- Information for Landowners on Consent for the Disposal, Treatment, or Storage of Drilling Wastes (May 2012) [\[PDF\]](#)

# More Information

» Field centers have information pamphlets

» [emailto:Directive050@aer.ca](mailto:Directive050@aer.ca)

# Concerned Individuals

- 》 If a stakeholder has questions about conservation, reclamation or remediation issues on their land, they should contact the AER Customer Contact Center at 1-855-297-8311.
- 》 To register a complaint about conservation, reclamation or remediation issues they should contact the AER 24-hour emergency at 1-800-222-6514.





# Questions





**Thank you**