North East Residuals & Biosolids Conference 2014

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Sludge Trends 2003-2013
Rulemaking Update

• Completed:
  • Chapter 409, Processing Facilities – 2014 (Odor)
  • Chapter 410, Composting Facilities – 2014 (Odor)

• Under Development:
  • Chapter 418, Beneficial Use of Solid Wastes; Chapter 419, Agronomic Utilization of Residuals (418 Appendix A/RAGs)
  • Chapter 400, General Provisions (Hierarchy, Definitions)
  • Chapter 410 (Formatting)
Chapters 409 & 410 – 2014

• Resolves 2013, Chapter 43: *Resolve, Directing the Department of Environmental Protection to Develop Quantitative Odor Management Standards*

• Resolve specific to facilities that “process wastewater treatment plant sludge from publicly owned treatment works and facilities that process septage”

• Included facilities that compost those materials
Chapters 409 & 410 – 2014 (cont)

• Method to quantify nuisance odors:
  
  • Approach includes FIDO method – Frequency, Intensity, Duration and Offensiveness of odors
  
  • Intensity measured using modified n-butanol scale
  
  • Scale – 1 through 5 intensity measurement using n-butanol field kits (150 ppm, 300 ppm, 600 ppm, 1,200 ppm, 2,400 ppm)
• Intensity of 4 at or beyond facility boundary for any duration is nuisance

• Intensity of 3 for 60 minutes, at least 3 days in 30-day period; at least 3 odor assessments in the 60-minute period

• Intensity of 2 for 90 minutes, at least 4 days in 30-day period; at least 4 odor assessments in the 90-minute period

• Existing facilities must comply by March 1, 2015

• Rule effective July 27, 2014
Chapters 418 & 419

- Chapter 418 (*Beneficial Use of Solid Wastes*), Appendix A values to be updated
- Chapter 419 relies on Chapter 418, Appendix A for substances other than metals
- Chapter 418, Appendix A developed during rulemaking in the mid-1990s
- Risk data outdated
- Use *Maine Remedial Action Guidelines for Sites Contaminated with Hazardous Substances* (May 8, 2013) or Maine RAGs
- Chapter 418 – public hearing on November 6, 2014
- Chapter 419 – public comment only until November 17, 2014
Chapter 400

• Incorporate waste hierarchy into general licensing criteria as required by legislation
  • Reduction of waste generated, including amount and toxicity
  • Reuse
  • Recycling
  • Composting
  • Processing that reduces volume, including incineration
  • Land disposal

• Definitions

• Public hearing on November 6, 2014
Chapter 410

- Minor formatting changes
- Public comment until November 17, 2014
