



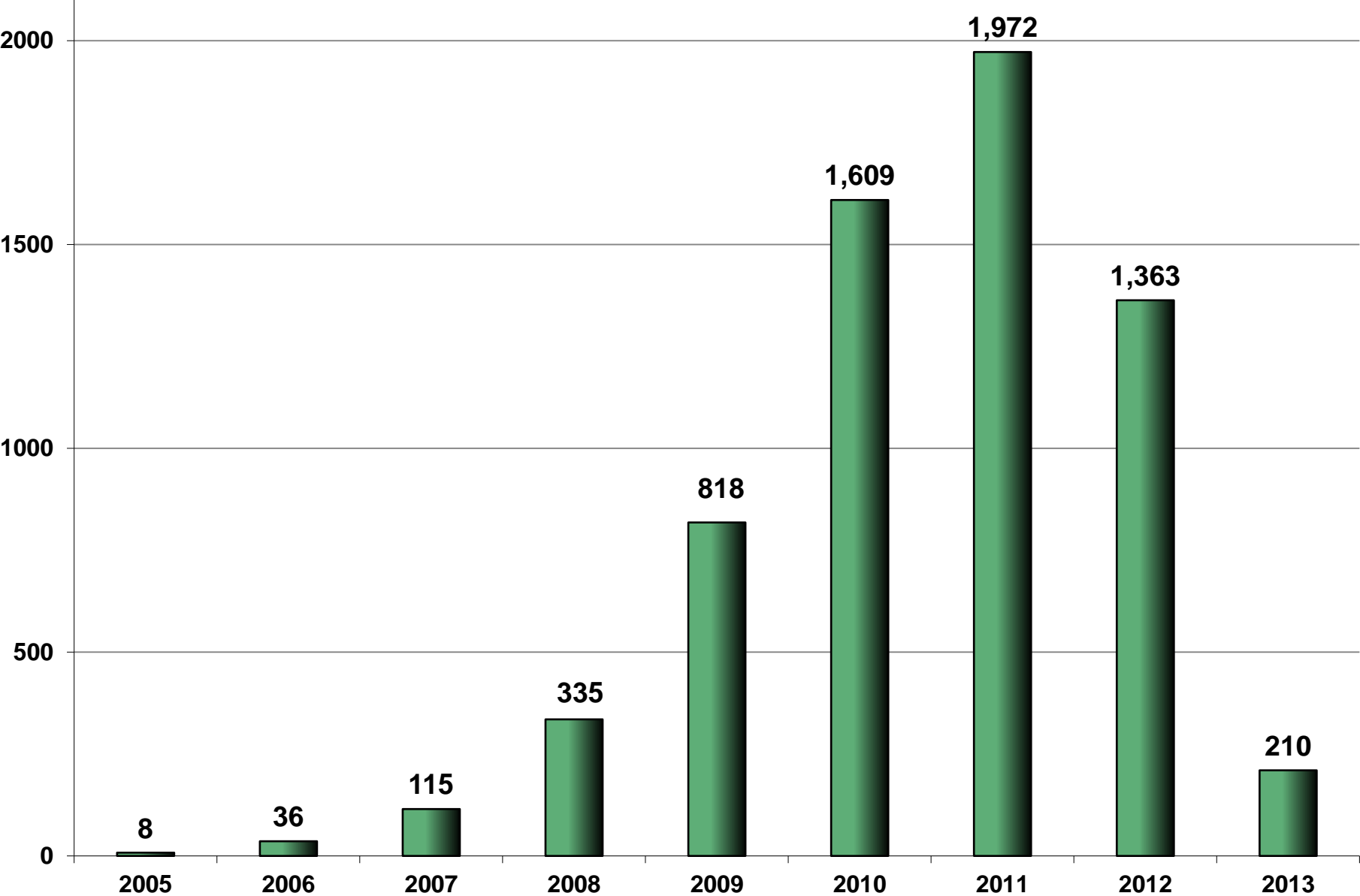
Oil and Gas Management

DEP Citizens Advisory Council

DEP Regulatory Efforts and Initiatives
March 19, 2013

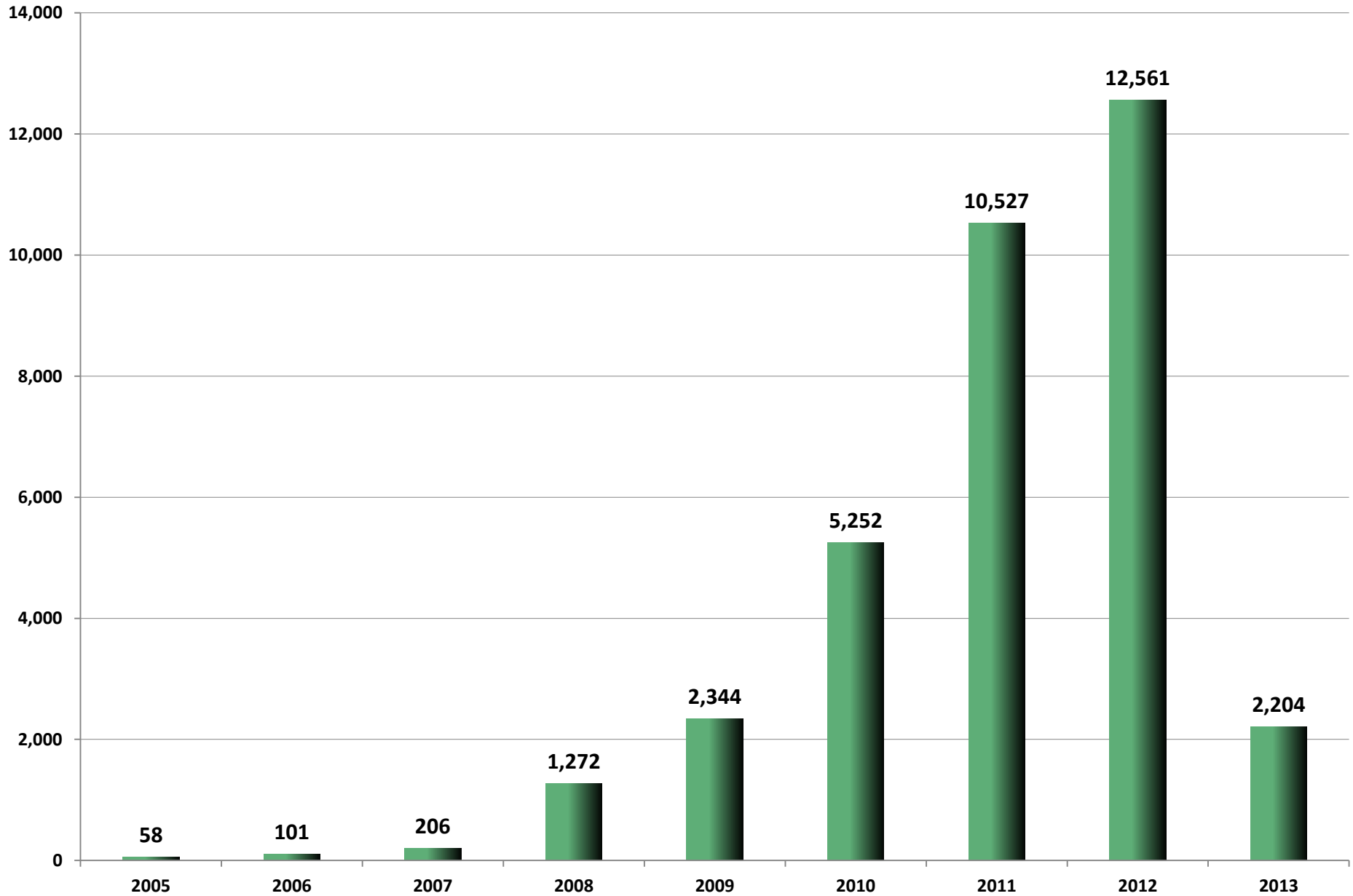
Unconventional Shale Wells Drilled

03/13/2013



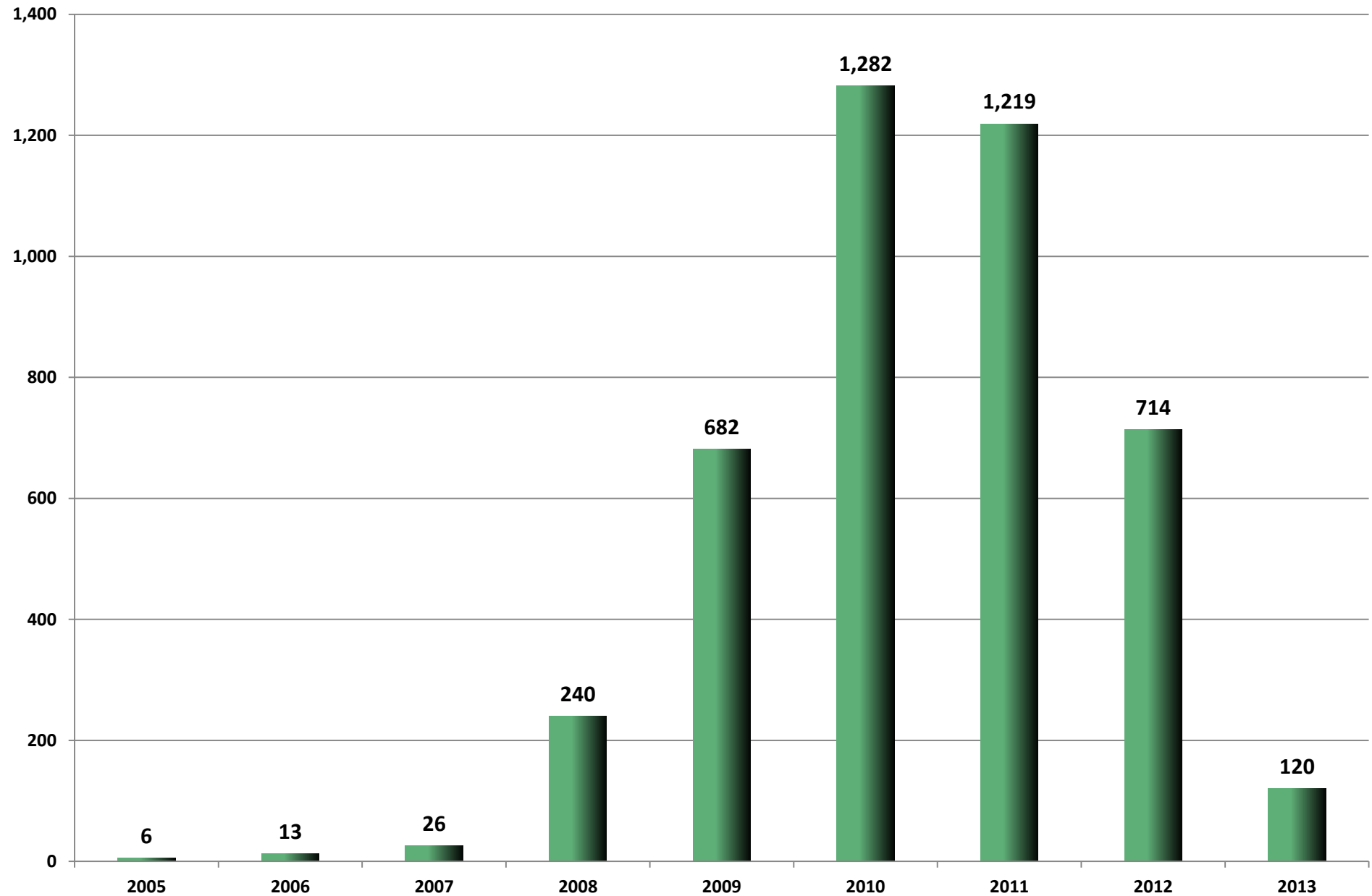
Unconventional Shale Wells Compliance Inspections

03/13/2013



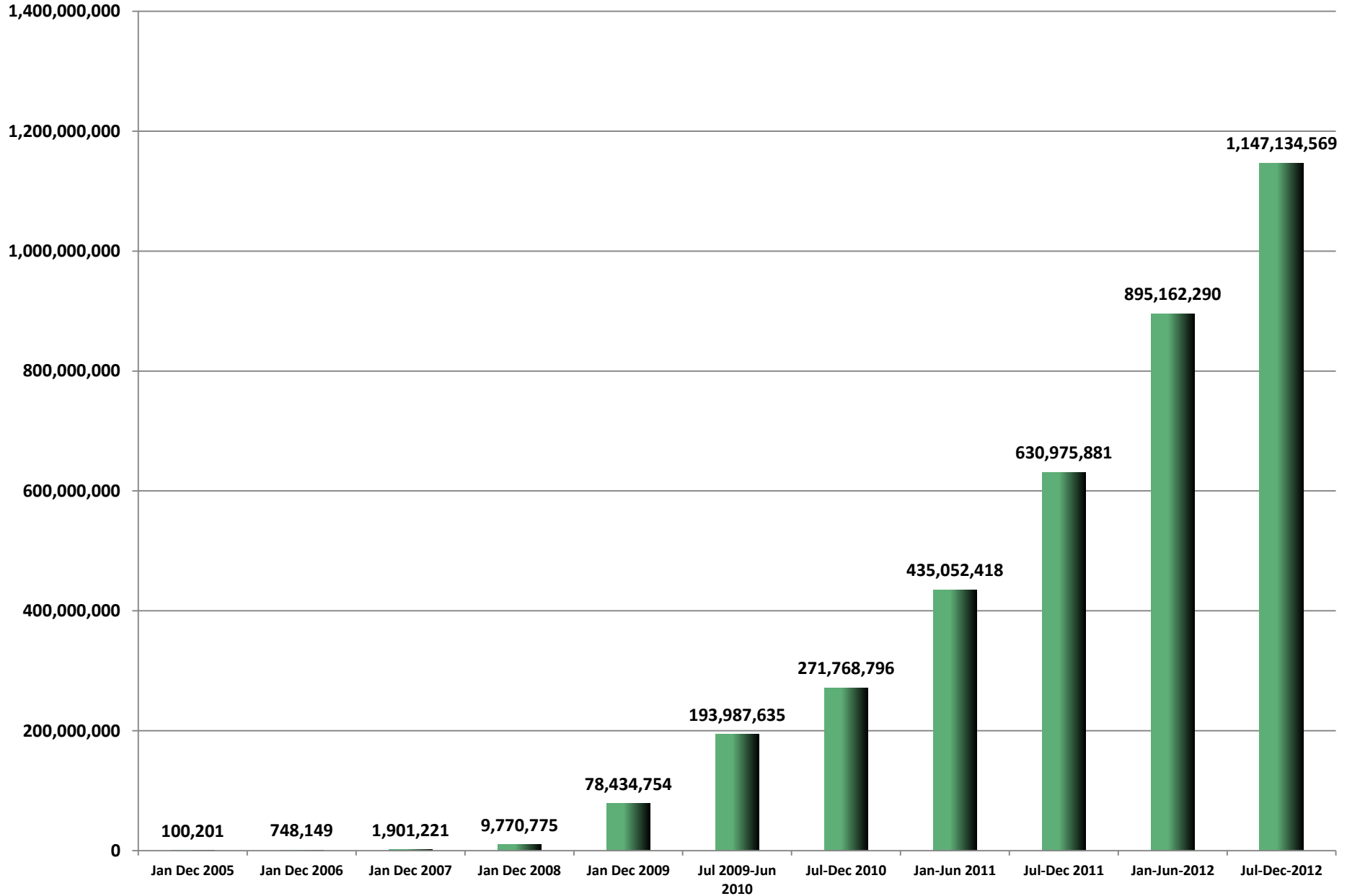
Unconventional Shale Wells Compliance Violations

03/13/2013

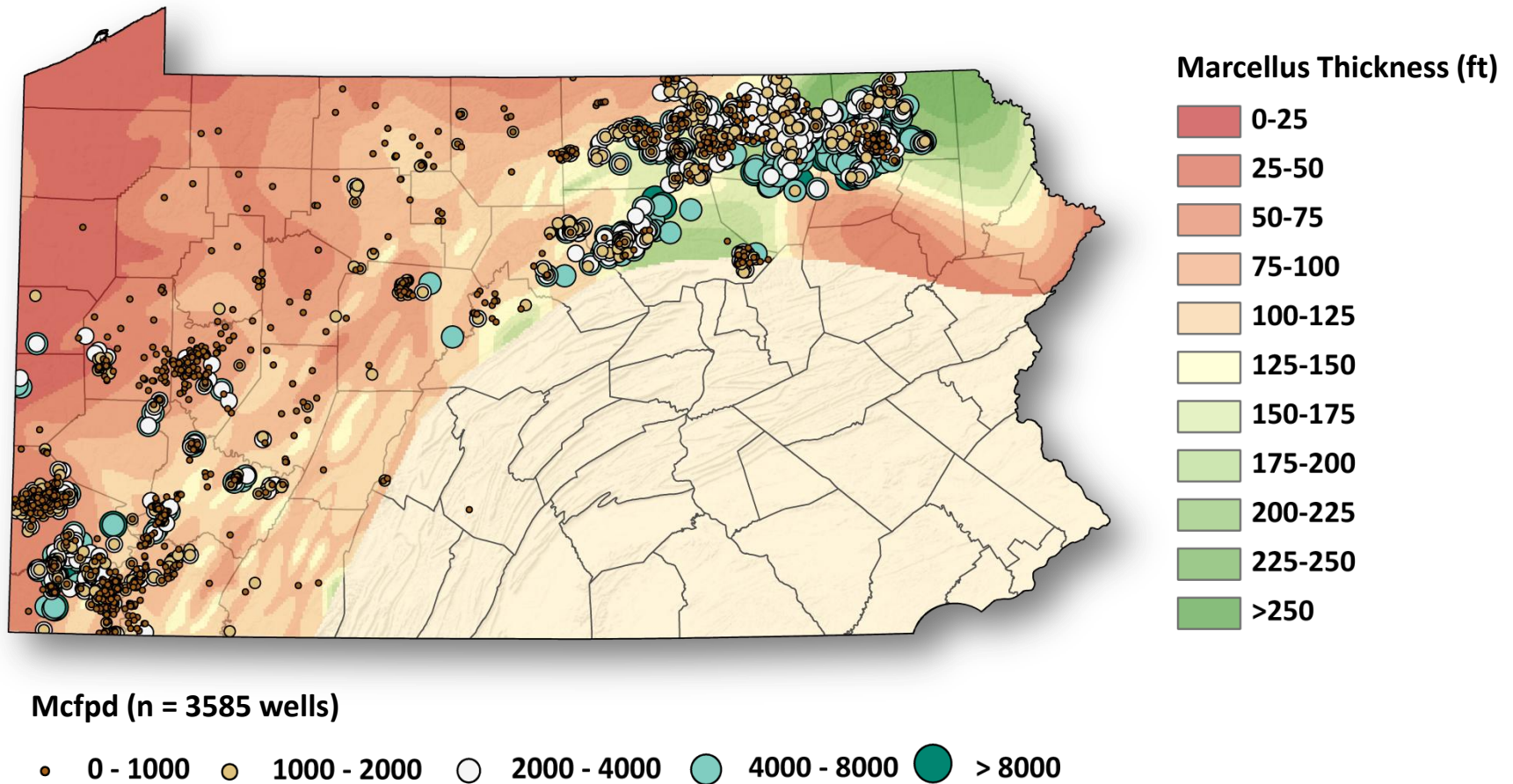


Unconventional Shale Wells Gas Production (MCF)

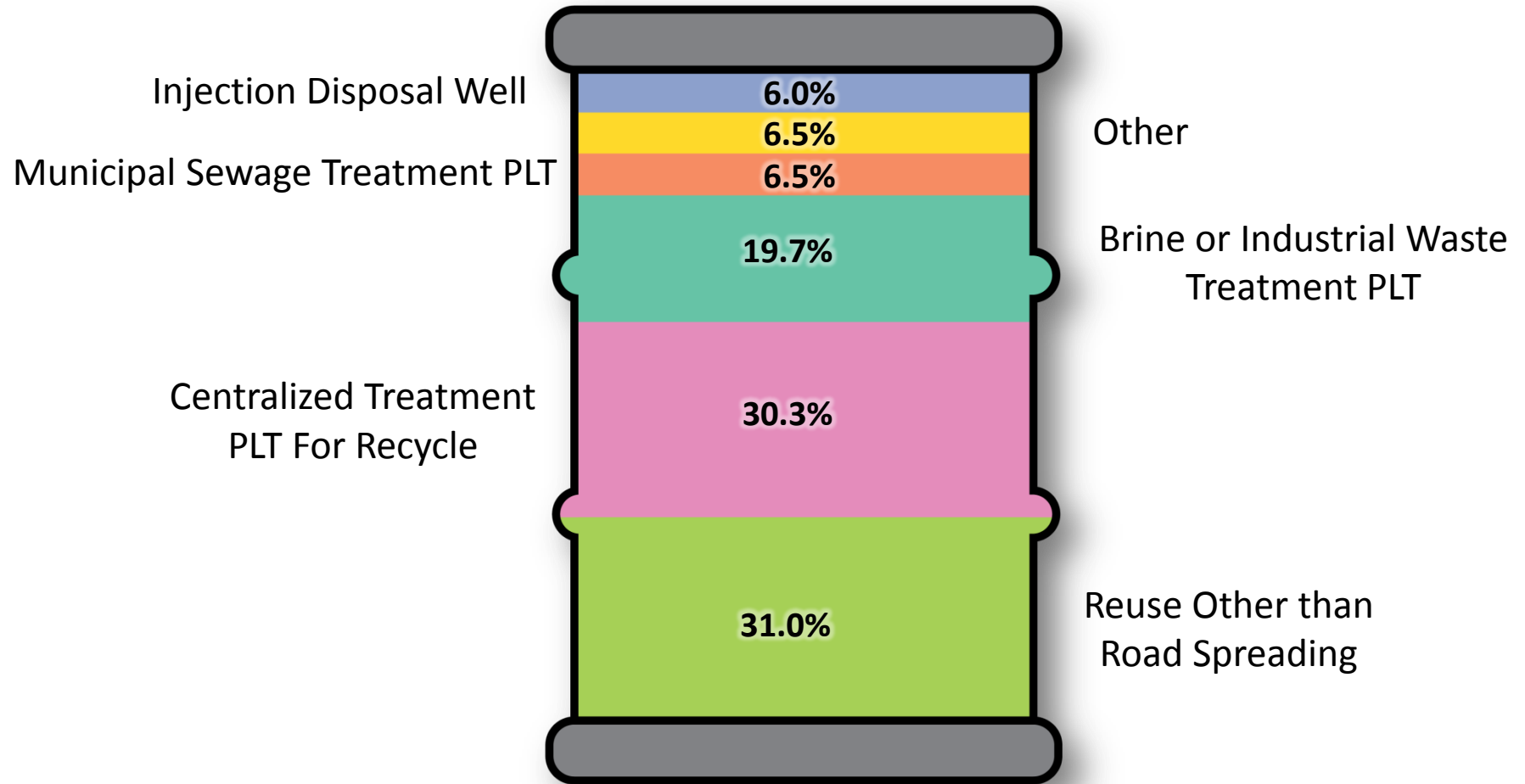
03/13/2013



Marcellus Shale Production Data 2012

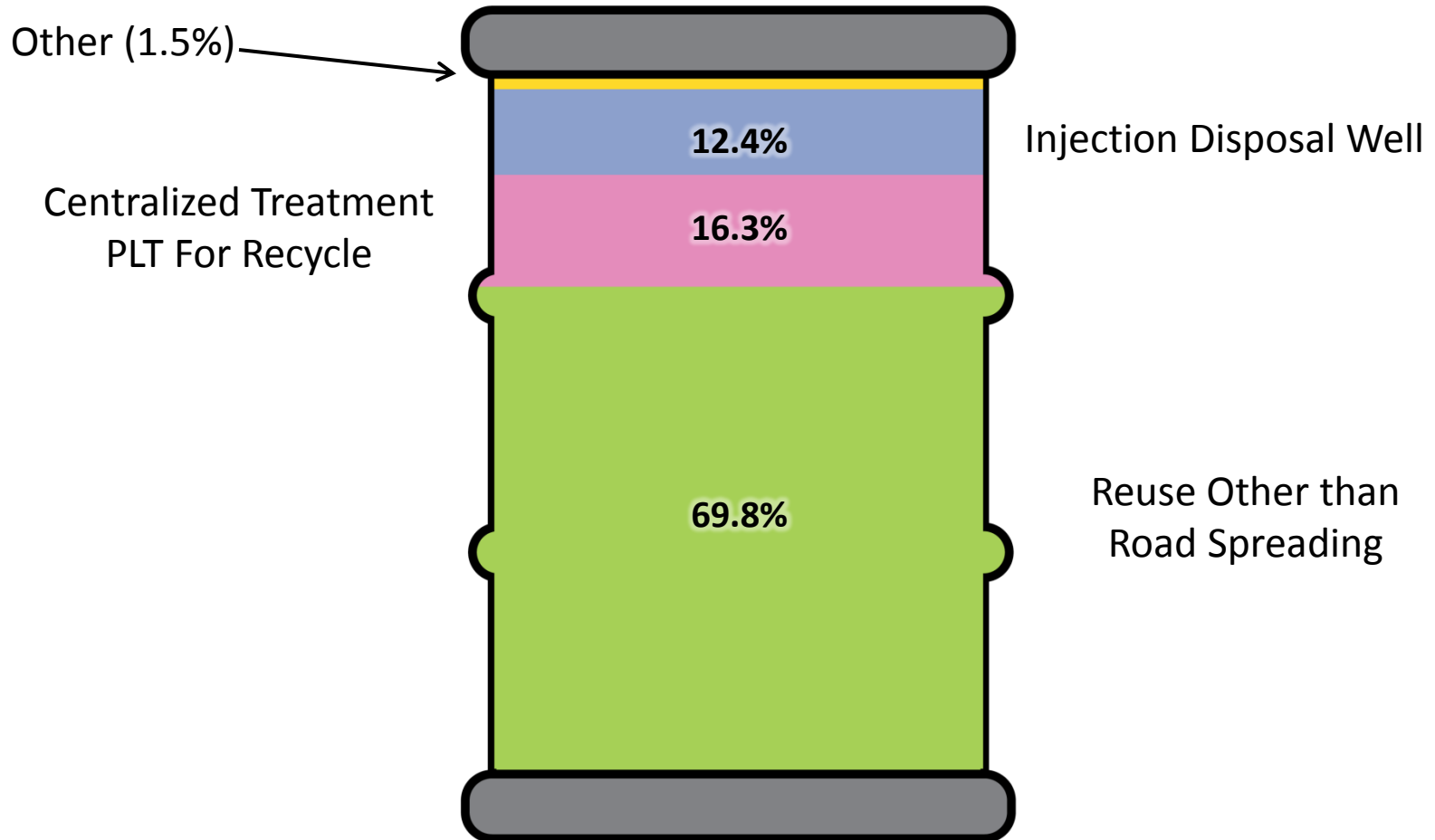


Unconventional Shale Well 2008 – 2011 Waste Summary

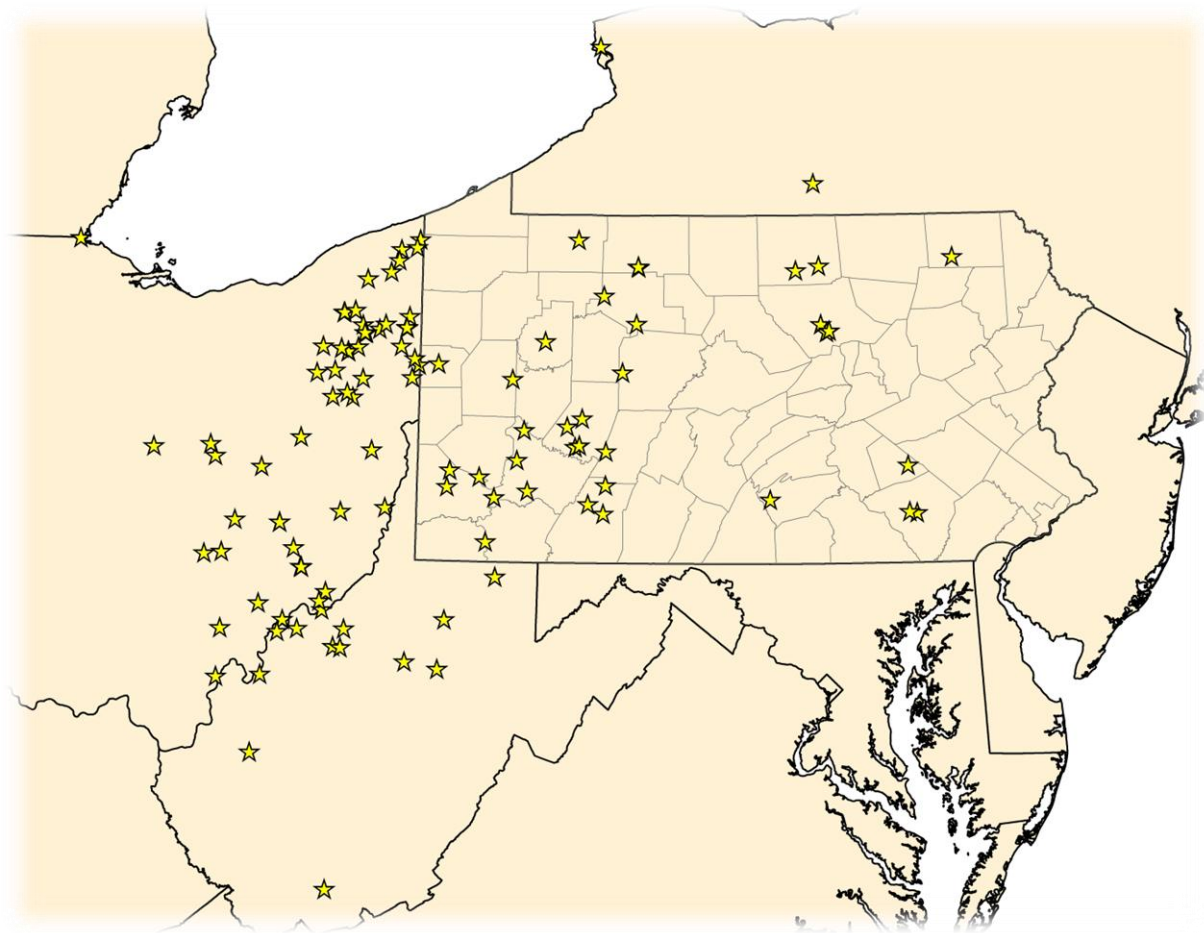


Total Waste: 44,347,869

Unconventional Shale Well 2012 Waste Summary



Total Waste: 29,124,485



Waste Water Distribution 2012

Offsite Treatment or Disposal

Total: 29,124,485



14.9%



13.7%



0.4%

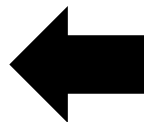
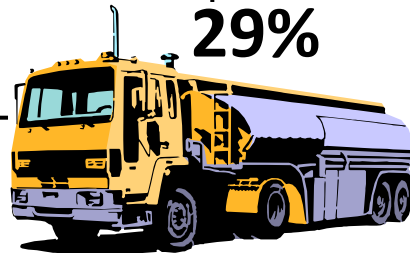


<0.04%



<0.01%

29%



REUSE FOR SITE



71%

DEP Initiatives Overview

- Act 9 Implementation
- Chapter 78 Regulation Revisions
- TENORM Study
- Air Quality Permit and Exemption

▶ Act 9 Implementation

- Final Rule Effective January 26, 2013
 - Apply for 911 address by February 25
 - Emergency response plan prepared by April 26
 - Sign in place by July 25

▶ Act 13 Implementation – Short Term

- Site Containment and Planning Requirements
 - See Act 13 FAQ Page
- Permit Posting at Well Sites
 - Prior to Construction December 1
- Site Restoration
 - 2 year extension with interim control plan

Act 13 - Chapter 78 Revision Concepts

Permitting

- Public Resource Protection
 - Notify Jurisdictional Agency
 - Describe Discrete Functions
 - Propose Mitigation Measures (if any)

Act 13 - Chapter 78 Revision Concepts

Site Development

- Site Containment Systems and Practices
- Approval of Large Volume Modular “Tanks”
- Eliminate Use of Produced Water Pits
- Use of Buried Tanks Require DEP Approval

Act 13 - Chapter 78 Revision Concepts

Site Development

- Prevent Access or Vandalism to Pits (unconventional only) and Tanks
- Document Seasonal High Groundwater Table
- Secondary Containment Around Produced Water Tanks (New and Refurbished)



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Act 13 - Chapter 78 Revision Concepts

Site Development

- Codify Centralized Impoundment Permit
- Establish Rock Pit and Freshwater

Impoundment Standards

- Manage Waste Processing at Well Sites
 - Focus is Performance NOT Process

▶ Act 13 - Chapter 78 Revision Concepts

Site Restoration

- Site and Support Facility Restoration
 - Define support facilities that must be restored
 - 2 year extension with approved plan
- Encapsulation and Land Application
 - Materials Testing (Large volumes only)

▶ Act 13 - Chapter 78 Revision Concepts

Temporary Pipelines

- Temporary Line Construction Standards
 - Pressure Testing
 - Valve Locations
 - Stream Crossings
 - Inspection Requirements

▶ Act 13 - Chapter 78 Revision Concepts

Pipelines - HDD

- Notice to DEP and PA FBC prior to HDD
- Additives other than bentonite require DEP approval
- Inadvertent Return Contingency Plan

▶ Act 13 - Chapter 78 Revision Concepts

Water Management Planning

- Codify Current WMP Requirements
- Follow SRBC standards for Groundwater Use, Sign, Metering, and Reporting Requirements

▶ Act 13 - Chapter 78 Revision Concepts

Roadspreading

- Prohibit use of Shale Gas Wastewater
- Codify Current Spreading Standards and Practices

TENORM Study

- Final Rule Effective January 26, 2013
 - Apply for 911 address by February 25
 - Emergency response plan prepared by April 26
 - Sign in place by July 25

Air Quality

- GP-5
- Plan Approval Exemption



Oil and Gas Management

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