

# Eastern Oil and Gas Region

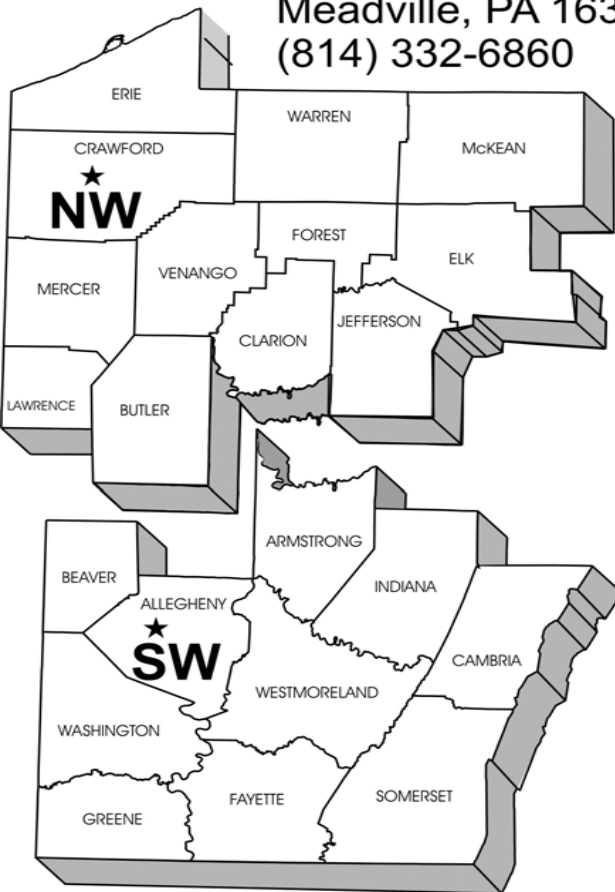
Jennifer Means

PA Department of Environmental  
Protection

# Oil and Gas Regions

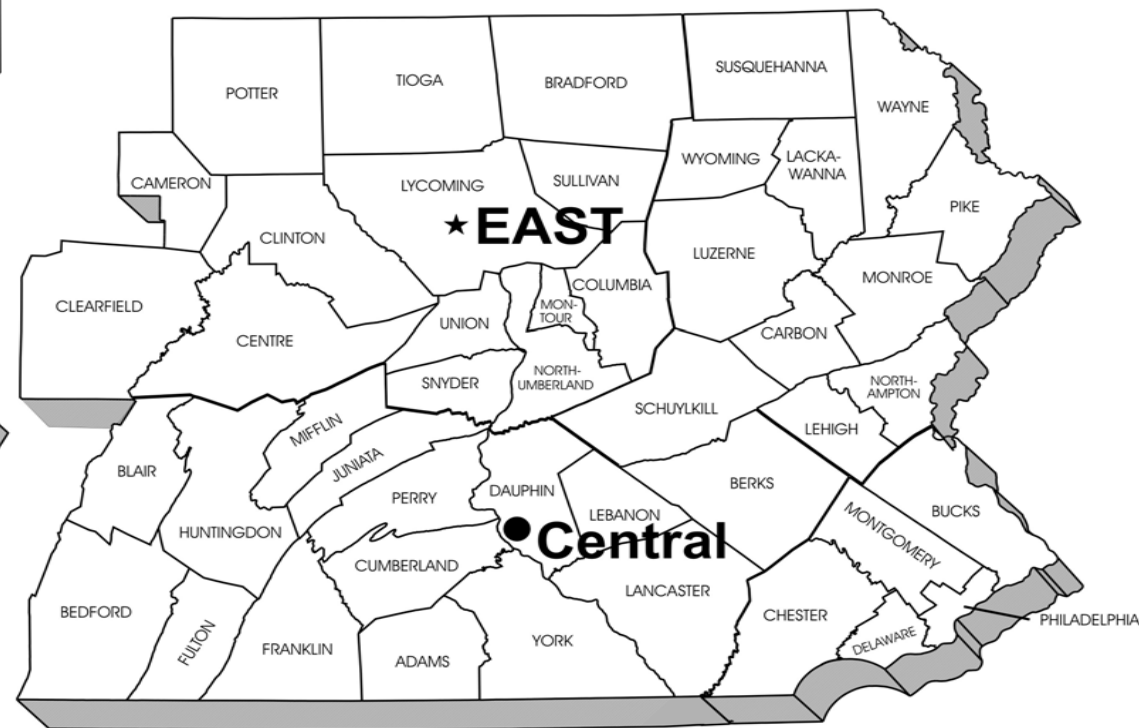
## ★ Northwest Region

230 Chestnut Street  
Meadville, PA 16335-3481  
(814) 332-6860



## ★ Eastern Region

208 West Third Street  
Williamsport, PA 17701-6448  
(570) 321-6550



## ★ Southwest Region

400 Waterfront Drive  
Pittsburgh, PA 15222-4745  
(412) 442-4024

## ● Central Office

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# Gas Drilling & Water Resources

- Stormwater
  - Construction
  - Post-construction
- Stream/Wetland Encroachments
- Chemical storage
- Drilling
- Water use
- Wastewater disposal

# Eastern Region Responsibilities

# Stormwater

- Construction
  - Erosion and Sedimentation
  - Required: **E&S plan, possibly ESCGP-1**
- Post-Construction
  - Increase stormwater runoff due to increase in impervious area (well pads, roads)
  - Required: **Post-Construction Stormwater Management Plan/Site Restoration plan**

# Stream/Wetland Encroachments

- Need to cross streams and/or wetlands with access roads, gathering lines, etc.
- Potential impact to habitat
- Potentially effect stormwater conveyance
- Required: **General permit or Joint permit from the Department for these activities**

# Chemical Storage and Use

- Chemicals stored on site and used during drilling and hydrofracturing
- Potential for spills- impacts to soil, surface water, groundwater
- Required: **Preparedness, Prevention, and Contingency plan (PPC plan)**
- Requires notification of Department and others
- Clean-up/remediation of spills required



# Drilling

## Eastern Region:

- Complaint investigations, inspections, compliance and enforcement

# Water Use

- Hydraulic fracturing (“fracing”) uses large quantities of water (+/- 5 million gallons)
- Potential impacts of water withdrawals to surface water and ground water
- Required: **Water Management plan approved by DEP**
- SRBC approval if within Susquehanna River basin
- DRBC approval if within Delaware River basin

# Wastewater Disposal

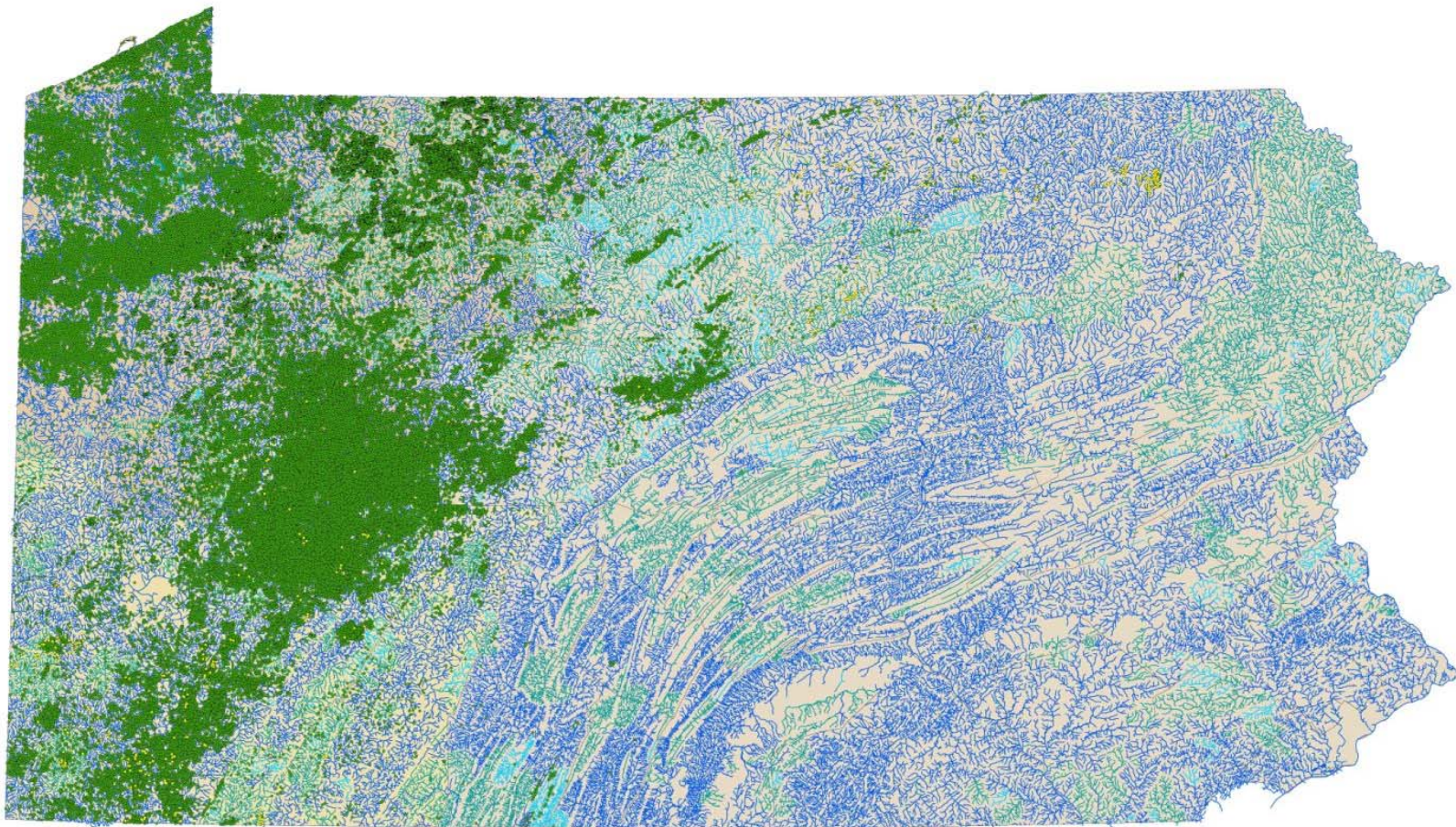
- Portion of water used during hydraulic fracturing returns to the surface as “flowback”
- Potential impacts to surface and ground water if improperly disposed
- Required:
  - Identify disposal facilities in “Control and Disposal” part of PPC plan
  - Residual waste- must follow all reporting requirements and list disposal facility on site restoration report (Waste Management Program)
  - Treatment Plants need DEP approval to accept waste (Water Management Program)

# Challenges

- Staffing
- Building a new program
- Volume and rate of activity
- Technology







**Legend**

- State Marcellus Wells
- Oil and Gas Well

**Designated Use Streams**

- All Other Uses
- Exceptional Value
- High Quality

**Oil and Gas Regions**

- NCR
- NWRO
- SWRO



Commonwealth of Pennsylvania  
Department of Environmental Protection  
Division of Water

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Northcentral Regional Office

# Statewide Wells