



SMCRA



- Signed into law by President Johnson in August of 1977
- Regulates both existing mines and “pre-law” or abandoned mines
- Gives Authority to the States
- OSM provides regulatory oversight

PA COAL FIELDS

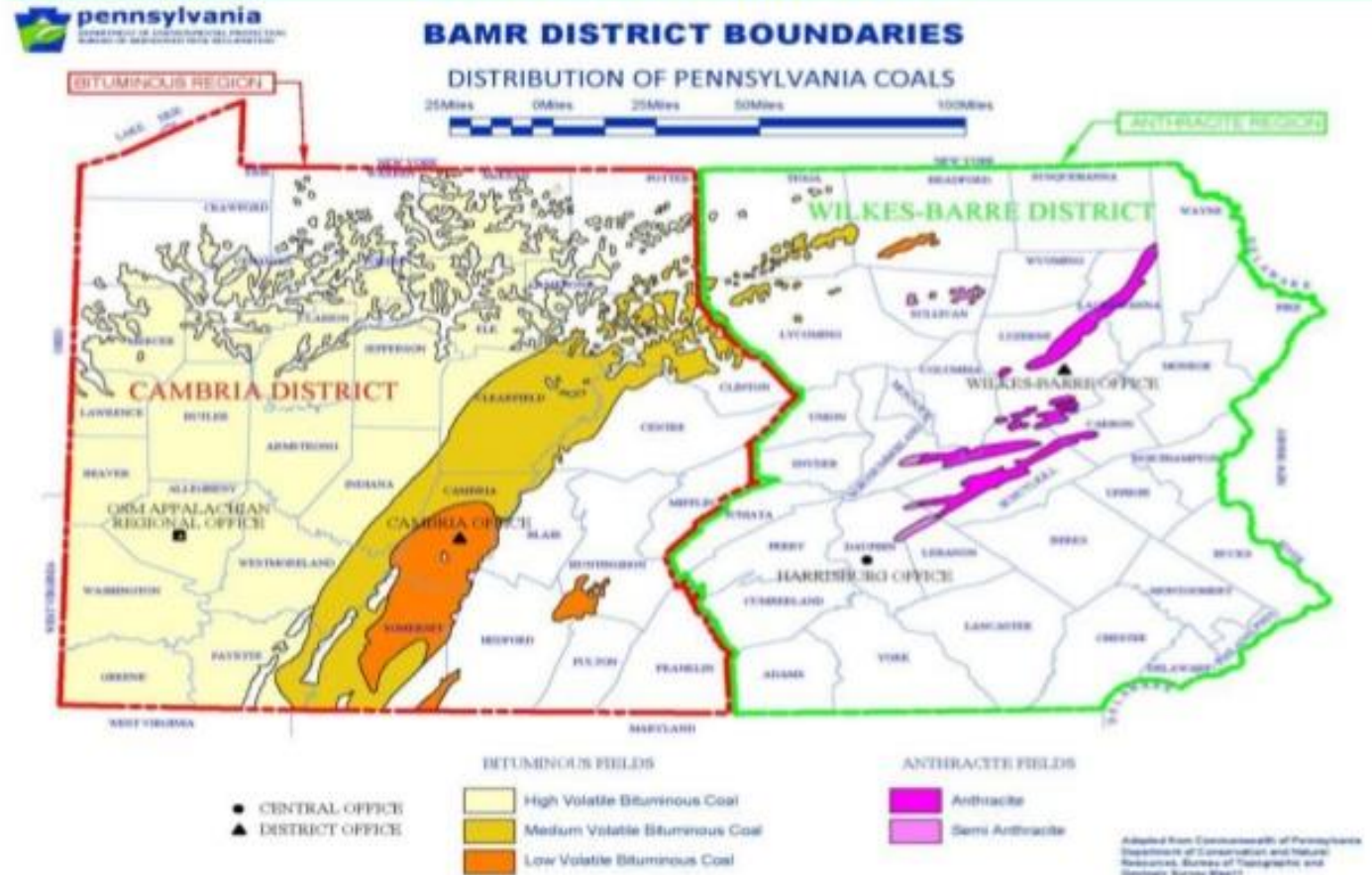
BITUMINOUS REGION

- This region covers about 12,000 sq. miles in 28 counties of PA.
- 4 fields: Main Bituminous Field; George's Creek Field; Broad Top Field; and the North Central Field.
- The majority of the mines are located in this region.
- Characterized by mountains and gently rolling hills.
- Areas within this region contain acidic overburden often requiring special reclamation efforts.
- Estimated bituminous reserves total 23 billion tons (5.3% of US reserves)

ANTHRACITE REGION

- covers approx. 3,300 sq miles
- Characterized by steeply pitching seams, some with dips in excess of 60 degrees

PA Coal Fields and BAMR District Boundaries

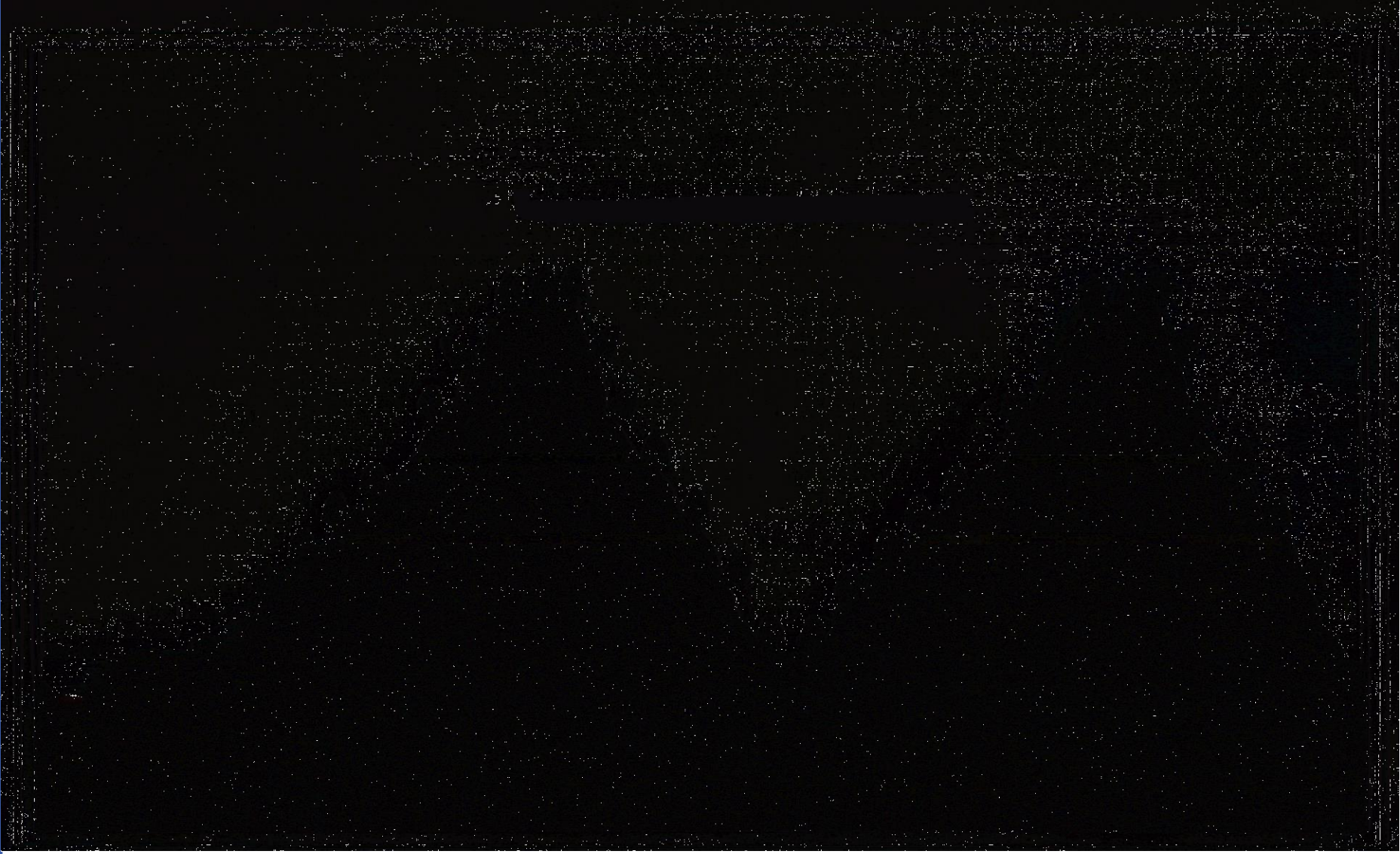


Mining Methods

- Two General Coal Mining Methods
 - Underground Mining
 - Room and Pillar
 - Longwall Mining
 - Surface Mining
 - Contour Strip
 - Mountaintop



OSMRE



Surface Mining-Contour Strip



OSWRE



OSWRE



OSWRE





WCAP History

- Program began in 1999
 - Offshoot of the ACSI
- In Pennsylvania alone, there have been 114 WCAP projects funded, totaling 9.5 million dollars, with a partner contributions of 44 million dollars.



Gavazzi Treatment System – Little Toby Creek Watershed



AMD Impacts

- PA – 2,500 miles
- WV – 2,500 Miles
- OH – 1,300 Miles
- MD – 300 Miles





Eligibility

- Applicants must be a 501(c)(3)
- Must be eligible for AML Money
- Work in conjunction with the regulatory authority



Frog Treatment System – Morgan Run Watershed

Application process

- Contact us early
- Matching funds ??
- Federal Assistance Manual
- Apply on [Grants.gov](https://www.Grants.gov)



Gallentine Treatment System – Indian Creek



Review Process

- Reviewed in conjunction with Regional Grants Personnel
- Merit Panel Ranking
 - 3 members not on the review team
- Site Visit
- NEPA Review



Coal Run System –
Schrader Creek
Watershed

Current Projects 2019 NOFO

- Ohio – 1 Project
- Pennsylvania – 11 projects



Illesboro Road Land Reclamation – Raccoon
Creek Watershed



Current Projects

- PA – 2 projects in FY2018
 - \$894,614 total
 - \$130,000 WCAP
- PA – 11 applications in FY2019
 - 9 Maintenance Projects
 - 2 New Systems
- OH – 1 application in FY2019



Richards Passive Treatment System – Blacklick Creek Watershed



How does it work??



- Two Year agreement
- Semi-annual reports
- Periodic on site inspections
- Final reports and inspection

MR 7 – Morgan Run





Future of the Program

- 3.5 million dollars currently allocated
- Tracking the Successes
- Learning from the Failures
- Aging Watershed Groups/Lack of involvement



West Branch of the Susquehanna watershed near Shawville PA



Daiva Passive Treatment System – Mill Creek Watershed



Questions??