ArcPad Mobile GIS for Ohio’s Abandoned Mine Land Inventory

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Surface Mining Control And Reclamation Act of 1977

- Title V: Coal Regulatory
- Title IV: Abandoned Mine Lands

Updates to AMLIS

- Unfunded
- Funded
- Completed
Hardware

- Screen size: 320 x 240 pixels
- Lightweight
- Fast enough
- 2-5m Accuracy
- All Day Battery Life
- Affordable
- Built-in Camera

Trimble Juno SB

Trimble Juno 3B
Software

- Base Mapping
- Ability to use our own Vector & Raster Data
- Ability to Integrate Field Edits into SDE
- ArcPad Data Manager Toolbar
- Customizable
Design Considerations

- For Non-GIS Users
- Needed To Be Easy To Use
- More Efficient Data Collection
Design Solutions

- De-Clutter Toolbars in Arcpad.APX (no scripting or coding required)
- Custom Applets (.APA) from ArcScripts website
• Schema and Custom Forms Designed After Priority Documentation Form
• Autopopulating Controls
• VBScript
Administering The System

Data stewardship
- 19 Check-out .MXD’s for 19 Field Deployments
- Editable Data = .AXF Check out
- Base Data = Read Only .SHP

Set It up Once,
Use it a Thousand Times
Administering The System continued

- AutoPDF = Automatic Priority Documentation Form Generator Script

Features  →  [Image]  →  Completed Forms
Accomplishments

1 incidence of Hazardous/Explosive Gas
116 Hazardous Equipment & Facility Sites
53 Hazardous Water Bodies
237 Open Portals
165 Unfilled Vertical Shafts
18 Subsidences

23 miles of Dangerous Highwalls
146 acres of Dangerous Piles and Embankments
16 acres of Dangerous Landslides

Over $20,000,000 in Future Projects Eligible for Abandoned Mine Lands Funding
Recent Growth

• Refine AutoPDF Script
• Scripted Check-in / Check-out Procedure (SyncCycle)
• Alabama AML Tech Transfer Deployment
Where to go from here?

- ArcPad lives until 2019!
- Toughpad’s, Windows 8, ArcPad 10 for Regulatory Inspectors
- FZ-M1 evaluation
Deployment requirements

- GIS Staff
- Spatial data needs
- Windows-based tablet platform
Challenges
Questions? Want to know more?
Contact Us

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