EARTH REVIVAL

Utilizing C & D Fines for Mine Reclamation and Economic Development

ABOUT US

- We are a small family-owned business located in Northeast, PA.
- I'm the third generation involved in Pennsylvania's rich mining history.



WHAT WE DO

MINE RECLAMATION

- We reclaim abandoned Pre-Act coal/non coal surface mining pits left behind by Pennsylvania's Mining Legacy.
- These Pre-Act pits are the state's responsibility as no current miner has any obligations to reclaim them.
- Secretary Patrick McDonnell of PA DEP stated at last year's 2021 AMR Conference that there are at least 287,000 acres in Pennsylvania that still need reclamation.
- The Pa Department of Environmental Protection site states that the funds needed to reclaim just the high priority sites is over \$1 billion and doesn't even include many of the Pre-Act sites which are still undocumented.
- Earth Revival reclaims these Pre-Act sites at zero cost to the taxpayer.



HOW WE DO IT

BRIDGING THE GAP BETWEEN INDUSTRIES

We work with the PA DEP Waste Division to beneficially utilize C & D Fines in our Abandoned Mine Reclamation efforts.

OUR PROCESS

We blend C & D Fines with Portland cement and water. This stabilizes the material and acts as a great fill material with low permeability.

OUR ACHIEVEMENTS AND GOALS







REMEDIATION



ECONOMIC DEVELOPMENT



COMMUNITY



CONSERVATION

- Conservation of virgin aggregate and fill material.
- Beneficial Use of C & D Fines that would otherwise be landfilled.
- Conservation of landfill space.



REMEDIATION

LAND

Restoration of dangerous abandoned mining pits with high walls to natural contour.

WATER

Restoration of natural watersheds when original contour is achieved. Prevention of future stormwater sitting on barren mine lands contributing to heavy metal leaching.

ECOSYSTEMS

The ability for forests to reclaim and reseed these sites through natural propagation.

ECONOMIC DEVELOPMENT

- Abandoned mine pits returned to conditions suitable for future development.
- The creation of potential new tax streams through the redevelopment and land recycling of these sites.
- Reutilization of the existing roadways and utilities already present at many of these abandoned mine sites.



COMMUNITY



High paying employment
opportunities for local
communities gained during the
project and after redevelopment



Improved Public
Safety/Removal from
Abandoned Mine Land
Hazards Inventory



All goals achieved at zero cost to the taxpayer saving community funds





CHALLENGES IN MOVING FORWARD

WHAT DEPARTMENT?

Our project bridges the gap between many public departments.

- Brownfield Redevelopment
- Land Recycling
- Site Remediation
- Mining/Abandoned Mine Lands
- Waste/Beneficial Use

AN UNFINISHED PROJECT

Due to COVID-19, our project was left unfinished with an expired permit.

COVID-19 AND REGULATORY DEADLINES

2 years have passed and COVID-19 is still overshadowing regulatory deadlines, thus increasing permit costs and delaying progress.

HARMFUL EFFECTS OF DELAYS IN PERMITTING

- No income for projects in between permits
- Families out of work
- Most harmful on the small family-owned companies

HOPES FOR THE FUTURE



THANK YOU

Morgan Popple

Morgan.popple@earth-revival.llc

