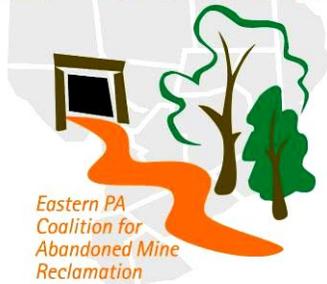


# EPCAMR



## Eastern PA Coalition for Abandoned Mine Reclamation

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## September 2012 Progress Report

### **Highlights:**

- EPCAMR staff participated in an AMR Conference Call and an EE Day. Converted over 20 PPT presentations to PDF and posted to [www.treatminewater.com](http://www.treatminewater.com).
- EPCAMR staff presented at the NAAML P Conf. and attended the LRCA 25<sup>th</sup> Anniversary Dinner
- Continued to update mine pool GIS files in the Southern and Western Middle Anthracite Fields and North Western Semi-Anthracite fields. Created contiguous set of 100' contours for the Southern Field. Produced a 3D Mine Pool Video and printed 4 cross sections for presentation
- Produced a case study showing 72% of reclamation not accounted for in AMLIS (Han. Ind. Pk.)
- EPCAMR staff sampled 16 boreholes in the Lackawanna Valley and 26 boreholes in the Wyoming Valley. Measured flow on 4 discharges. Sampled 1 Passive Treatment System.
- Updated [www.treatminewater.com](http://www.treatminewater.com) and updated [www.epcamr.org](http://www.epcamr.org). Administered the EPCAMR and HBPS facebook page and Google Apps for Nonprofits account.

### **Education and Outreach:**

- Researched and ordered a replacement computer for the EPCAMR Server. This old Pentium 4 computer was once the Executive Director's computer. After several attempts to upgrade it over the years, it was finally retired. Setup the new computer, installed programs and transferred over all the files from the old computer.
- EPCAMR staff participated in an environmental education day at Camp Kresge for Bear Creek Charter School students of all ages. EPCAMR setup an exhibit related to life that exists in streams and ponds. We were able to collect live macroinvertebrates and some vertebrates for show and tell. Other activities included macro bingo then tracing and coloring an aquatic bug to take home.
- Created EPCAMR Program Manager monthly report for the previous month, gathered other staff reports, posted them to [www.epcamr.org](http://www.epcamr.org) and sent to PA Department of Environmental Protection (DEP) 319 Nonpoint source (NPS) program staff. EPCAMR Staff prepared monthly reimbursements to send along as well.
- Converted the AMR Conference Power Point Presentations to PDF format and posted them to [www.treatminewater.com](http://www.treatminewater.com) as conference proceedings. Created an article to announce the uploads and notify those who may be waiting for the information.
- EPCAMR staff participated in an AMR Conference Call to begin to plan for 2013. Next year's conference will be the 15<sup>th</sup> annual conference and the committee would like to commemorate this in a special way to be determined.
- EPCAMR staff traveled to Des Moines, IA to the NAAML P Conference for a presentation of EPCAMR's 3D Mine Pool Mapping and Anthracite Strategy Initiatives. EPCAMR staff were the only non-profit non-governmental entities (aside from Native American Tribes) to present and attend the 2 ½ day conference, met several individuals that were tracking and completing abandoned mine reclamation in their respective states [SRBC].

- Attended the Lackawanna River Corridor 25<sup>th</sup> Anniversary Dinner and helped congratulate Executive Director, Bernie McGurl, on his many years of faithful service to the organization.

### **Technical Assistance:**

- Georeferenced mine maps from the PA DEP to confirm mine pool boundaries in the western portion of the Southern Anthracite Field. Spoke with Jim Andrews, PA DEP Pottsville District Mining Office (DMO) to see if there were more in the Deep Mine Safety (DMS) Mine Map Collection [SRBC].
- Aided EPCAMR Intern, Kelsey, as she georeferenced a historic map of breaker locations in the Anthracite Coal Fields. She then created a GIS point shapefile and added information from an associated table to the attributes.
- Merged 100 foot contours from the Buck Mountain Vein (in most parts, the lowest mineable seam) in the I-529 area (Tremont/Tower City) into several other USGS Miscellaneous Investigation Series (I-Series) coverage area using earthVision. This creates the first ever contiguous set of the lowest mineable seam contours for the Southern Field. Converted to an ArcGIS shapefile [SRBC].
- Spoke with Pierre Macoy, SRBC Hydrogeologist, to get hand over 3D model of the Brookside Mine, but he uses ESRI ArcGlobe and there were some file format issues to work through [SRBC].
- Met with Mike Dziak, Earth Conservancy (EC), to discuss a continued monitoring for the Espy Run Passive Treatment System (PTS). EPCAMR will continue monitoring the chemistry and flow of the incoming AMD and treated water throughout the treatment system monthly for several more months [EC].
- Studied the Shamokin Operation SCARLIFT Report in depth in preparation for a public information meeting in November at the request of the Shamokin Creek Restoration Alliance (SCRA). EPCAMR completed a Mine Pool report for the Western Middle Anthracite Coal Field, but Growing Greener Funding only allowed for ½ of the mapping to be done in the field (Mahanoy Creek Basin). Continued to verify barrier pillar locations, altitude of effectiveness, mine pool water flow directions, and tunnel locations based on mine maps from the DMS collection. Georeferenced the DMS maps and adjusted Mine Pool GIS Layers to fit. The layers now line up very nicely with anticlinal ridges and faults in the geologic structure.
- Met with Dean Cruciani, PA Tectonics, to discuss the conversion of the Taylor and Loomis mine pool monitoring boreholes from large 2' x 4' steel plate covered box chambers to small 1' round plates. The conversion helps road departments as they mill and pave roads. Also met at Loree and Baltimore boreholes to discuss raising the plates to the road surface. Met with Todd Wood, PA DEP Bureau of Conservation and Restoration (BCR) a week later to talk about the repairs and upgrades and obtained plans of previous work done for comparison [SRBC].
- EPCAMR staff traveled around the Lackawanna Valley to conduct water level monitoring of 15 boreholes related to the Scranton Metropolitan Mine Pool. Monitored the Jermyn borehole as well which is connected to the Jermyn Mine Pool. Monitored flow at the OFBH and Duryea Breach discharges, and downloaded transducer data [LRCA].
- Produced a Case Study of the Hanover Industrial Park Area to show AML Trust Fund Title 4 (PA DEP BAMR) reclaimed sites as opposed to ARIPPA reclaimed AML sites. The numbers were actually surprising. Some 73% of the reclaimed acreage was not being accounted for in the AMLIS Inventory! Put together a Power Point Presentation with maps and statistics for Jeff McNelly to show to the ARIPPA Board. The board asked for this clarification to an EPCAMR proposal to complete the work to show the "whole reclamation story" for PA.
- Created a new video of the Brookside 3D Mine Pool Model in preparation for the National Association of Abandoned Mine Land Programs (NAAML) Conference. Added the surface using a digital elevation model (DEM), underground mine boundaries and generally slowed down the rotation of the model to allow viewers to better grasp the vastness of the underground pool. The new video is 5 minutes long. Also printed Ashburner maps and cross sections of the

Wyoming Valley to show some of the original mapping that we were dealing with to create the 3D Mine Pool Models [SRBC].

- Traveled to Dushore, PA to meet with PA DEP Moshannon DMO Staff and Hedin Environmental to discuss repairs to the Lewis Mine Discharge Treatment System. EPCAMR will sponsor a Growing Greener Grant to repair the system and get it functioning at peak capacity again.
- Followed up with Mario Carrello, PA DEP Moshannon DMO, to provide them with updated mapping of the Gutten Mine Pool. Researched the Loyalsock Creek Operation SCARLIFT report and found that the Lewis Mine Discharge emanates from the Gutten Drift and the mine pool exists in the Gutten Deep Mine. This mine pool is separated by a fault from the Connells B and C Vein Tunnel Discharges.
- Traveled around the Wyoming Valley to monitor water levels in 26 boreholes in the Wyoming Valley. Calculated flow for the Glen Lyon Discharge, Buttonwood Discharge, South Wilkes-Barre Boreholes and pipe full measurements on the Askam Borehole Discharge to calculate the amount of mine water flowing [SRBC].
- EPCAMR staff monitored the chemistry and flow of AMD coming into and treated water passing throughout the Espy Run Passive Treatment System [EC].

[ ] - Denotes funding source where applicable.