



Eastern PA Coalition for Abandoned Mine Reclamation

Michael A. Hewitt, GISP
Program Manager

101 South Main Street
Ashley, PA 18706

Main Line: (570) 371-3522

E-mail: hardcoal@epcamr.org

March 2018 Progress Report

Highlights:

- Managed EPCAMR staff as they scanned 219 mine maps into TIFF images, georeferenced 3 & digitized mosaic maps for the **PA DEP** MSI MMG program. QA/QC checked work.
- EPCAMR staff participated in an AML Campaign & an AMR Conference call; Met with a **NAAML** Committee; Presented to **AIPG**; Participated in an event in Washington DC; Hosted Paint Night and Raised brook trout in TIC tank all in the name of EE.
- Investigated 3 AML areas in **Sullivan County** for the **Sullivan Conservation District**.
- Updated www.epcamr.org; Setup a new online store platform; Administered the EPCAMR Facebook and G Suite for Nonprofit accounts; Maintained GobbaDaPile in-house domain server and workstations.

Education, Outreach and Admin.:

- Corresponded with David Williams, PA Department of Environmental Protection (DEP) Pottsville District Mining Office (DMO) regarding maps misplaced on wrong shelves that we already scanned. These maps will be set aside and placed back on the correct shelf as per the Bureau of Mine Safety Administration (BMSA) database [MSI].
- Prepared a presentation for the American Institute of Professional Geologists (AIPG) regarding the 3D modeling we have been doing in earthVision and now ArcGIS. Presented to the group, but had technical difficulties in showing a live demo in ArcScene (even though it had worked the day before in trials). Seems our new PowerPoint projector was not compatible with 3D graphics from my laptop. Used the old PowerPoint projector and it partially worked. Wasted a lot of time, which was frustrating.
- Watched as crew repaired the rock vanes in Solomon Creek. The structures had moved with floodwaters after the January thaw.
- Travelled to Harrisburg to participate in a National Association of Abandoned Mine Land Programs (NAAML) meeting regarding the September 2019 conference. The PA DEP will host the conference in Pittsburgh and invited the PA Abandoned Mine Reclamation (AMR) Conference committee to co-host. WPCAMR is aiding mostly with the tours while EPCAMR has agreed to run registration and website administration. Secured NAAML2019.com and started a WordPress site.
- Reviewed WPCAMR web accounts at 1and1.com and was able to remove 2 unused accounts, saving them money.
- Caught up with office work: invoiced grants and completed time sheets. EPCAMR management staff filled out and submitted tax-exempt renewal paperwork.
- Attempted to install Magento 2 CE on HostGator account. Needed to upgrade the SQL database to Edge (7.1). Found out that HostGator does not support SQL 7 for shared hosting accounts. Installed Magento 1.8 instead through cPanel, which worked much better.

- Setup and added products to the store. Learned how to use Magento through many video tutorials and blogs. This product has many more users than ShopperPress and seems more intuitive.
- Prepared a narrative for Rausch Creek mine pool project work completed and submitted a final invoice to SRBC.
- EPCAMR management staff participated in an AMR Conference call to coordinate the upcoming conference. Followed up with updates to treatminewater.com and continued to learn Magento as a hopeful conduit for registrations.
- EPCAMR management staff traveled to Washington DC to participate in a Bay Day on The Hill with Choose Clean Water Coalition and Coalition for the Delaware River Watershed. We were able to educate legislators about AML issues and several legislators spoke at a lunch presentation. Many of the presentations centered on how the budget would affect environmental funding.
- Reviewed and quality controlled Mine Mapping Grant work from December to February. Invoiced the program and submitted files on a hard drive to the PA DEP California DMO [MSI].
- Received an anonymous call from a resident near our Solomon Creek Dam Removal Project indicating that there was a “dozer” in the stream. The resident was asking if it was us because she thought we were done with repairs. I verified that we were, in fact, done with repairs and notified our executive director. He contacted our project manager at PA Fish and Boat Commission who instructed us to take photos. There were “dozer” tracks and about 5 rock dams placed across the stream. A representative from Ashley Borough, the landowner, showed up at our office asking for me. He proceeded to tell me that several men built the dams by hand (despite evidence to the contrary) for the Ashley Trout Stocking Association’s upcoming event next month.
- Participated in an AML Conference Call to talk about our education effort in Washington DC.
- Connected Magento to PayPal. Some scripting was required, but not too difficult. Started to test the new store. Setup automatic emails to notify customers and administrators about purchases and payments. Added items related to AMR Conference registration. Updated the registration and speakers pages on treatminewater.com.

Technical Assistance:

- Limited success with ArcGIS “extrude between” tool. The process created an “ice-sickle” which left the multi-patch polygon open. Tool would not calculate a volume for the isolated section of Markson Independent Mines. Had to use ArcScene since ArcGIS Pro kept crashing [SRBC].
- Re-organize BMSA downloaded SIDs on the X Drive. Placed them in a “downloads” folder to separate them from SIDs that DEP created from maps that EPCAMR scanned. These maps have been georeferenced by others or need to be georeferenced for use in the mosaics [MSI].
- Updated instructions to create mosaics with handwritten notes from the training in October and things we had learned along the way [MSI].
- Visualized Markson Independent Mines Lykens #4 vein in ArcScene. Overlaid the map used to digitize the vein elevation point-cloud. The visualization seemed a little pixelated, but got the point across. Took a snapshot and added it to a presentation I was preparing for the AIPG [SRBC].
- Transferred earthVision 3D block fault 2D grids to ArcGIS ASCII Grid format as mandated in a Rausch Creek Mine Pool Modeling contract amendment. Created 16 grids (8 veins top and bottom) within 4 fault blocks then created 20 foot contour shapefiles. The process required 2 tools in earthVision, 3 tools in ArcGIS and approximately 16 hours of processing time. Transferred files to the Susquehanna River Basin Commission (SRBC) via FTP [SRBC].
- Researched a mine fire near Mildred from the 1970’s to the early 2000’s for Corey Richmond, Sullivan County Conservation District Watershed specialist. Created 3 Abandoned Mine Lands Inventory System (AMLIS) reports. None of them mentioned a mine fire. Corey asked the local fire company and they said they put it out without the help of federal or state funding.
- Aided EPCAMR staff in finding maps to fill in gaps for the Wilkes-Barre West Kidney Vein mosaic. The kidney vein is one of the uppermost veins in the stratigraphic sequence and

therefore coverage across the entire quadrangle is varied. Dug up a US Geologic Survey (USGS) miscellaneous geologic investigation series map, which showed outcrops of veins in the area. This could help predict where maps may exist while using the PA Mine Map Atlas. Also searched through the PA Historic Underground Mine Map Inventory System (PHUMMIS) for maps that might fit but have not been georeferenced [MSI].

- EPCAMR staff hosted Paint Night at our office. We contracted with an artist who mixed out iron oxide pigment into paint and taught attendees how to paint a sunset over a lake.

[] - Denotes funding source where applicable.