Flint Run East is located in Section 28 of Milton Township in Jackson County and lies within the 12-digit HUC unit #050901010403. The project site is 56 acres and is located in Little Raccoon Creek next to Lake Milton. Flint Run East project is Phase I of the Flint Run Reclamation Project, Lake Milton is Phase II. The project discharge was measured at the tributary draining the Flint Run East treatment site. The Flint Run sub watershed is affected by abandoned strip mine drainage and associated unreclaimed coal refuse piles mostly from the Broken Aro mine which is in the headwaters of Flint Run. This area was the coal washing and loading facility for the Broken Aro mine. The site is very complex hydrologically, the site consists of large buried slurry impoundments and surface mining pits around the rim of the main valley (Figure 2). Mead-Westvaco reclaimed the main slurry pond area with paper mill sludge in the mid 1980’s. AMD seeps originate in many locations associated with the slurry impoundments and the surface mine pits. The design was completed by RD Zande for a cost of $241,702. The treatment approach for this site was to dewater the strip pits and install passive acid mine drainage treatment systems. The major consideration during the design process was to reduce groundwater infiltration into the valley coal refuse pile. Construction was completed Aug. 1, 2006, by Berridge Reclamation for a cost of $1,456,106. The funding sources for this project were ODNR-DMRM for the design and ODNR-DMRM, EPA-319 and OSM ACSI for construction. Pre-treatment acid and metal loadings at site FR0126 are shown in figure 1.
Figure 2. Flint Run East and Lake Milton treatment system and site