



BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

Project Title: Indian Creek Watershed – Gallentine Abandoned Mine Drainage Project

Location: Normalville, Fayette County, PA

Scope: Provide labor, materials, equipment, and supervision to restore and reconstruct a passive abandoned acid mine drainage treatment system

Berner Construction, Inc. was contracted by the U. S. Department of Agriculture, Natural Resources Conservation Service to restore a failed acid mine treatment system located in Fayette



Installing Drainage System

The project included the restoration/reconstruction a primary vertical upflow pond, primary sedimentation basin with rock baffles, secondary vertical downflow pond, and a secondary sedimentation pond. The two treatment ponds, or vertical flow ponds, contain a treatment media (limestone and mushroom compost) for the passive treatment of the acid mine drainage (AMD). The treatment media is intended to raise the pH of the AMD to allow the acidic materials to precipitate from the water. AMD flows from the vertical flow ponds to the sedimentation basins, where the acidic materials will precipitate and settle in the pond prior to discharge to the existing stream.



Placing Compost Material

Berner constructed the vertical flow ponds and sedimentation baffles were using 3600 linear feet of perforated and solid piping, 8200 tons of high alkaline limestone, and 500 cubic yards of compost material. The site was restored by seeding and mulching all disturbed areas.