

RAW MINE DRAINAGE

Coal Mine

Pennsylvania

CASE STUDY

Target
 Contaminants: Iron, Manganese, pH

Situation: A surface coal mine ceased operation approximately in 1984, the site was mined over 50 years into 3 coal seams. Drainage concentrations ranged from 14 - 20 ppm, Iron; 6-8 ppm, Manganese with a pH 6.

Action: A wetland environment was designed and set up, with flow rates ranging from 200 - 500 gpm. Two tons of Lambda BIOCARB™ were carefully tailored and inoculated to address the drainage problem and treat their ponds.

Results: Within 8 months, chemical treatment ceased. Iron and Manganese were less than 1 ppm and 2 ppm respectively and pH was 7 and above.

Closure: Verbal confirmation of compliance but no documentation due to a change in company environmental management.



