Locust Lake Dam Discharge and Holding Ponds

Locust Creek feeds Locust Lake and exhibits cut bank and point bar features. Notice the size of sediment deposited on the point bar compared to the cut bank.

Catawissa Street Overlook – the Anthracite Coal of PA is a very important resource.
Notice the lines in the distance (bottom right) showing remnants of mining in the southernmost extent of the anthracite beds.

Silvercreek Treatment System – a crop fall (top left) is the discharge area for a mine containing iron rich water (notice blue coloration of dissolved iron). The treatment system was developed and constructed at a cost of $800,000.

Silvercreek Treatment System – water from the crop fall is diverted to a series of retention pods which allow iron to settle and pass the water over beds of limestone to increase pH.

Wheeler Run - This stream channel has been lined with clay and rip rap to decrease the recharge that was occurring to the underground mine pool thus decreasing abandoned mine discharge. The old flume may be seen at the bottom left.

Wheeler Run – The old mine shaft is visible at the surface.

Wheeler Run – A small stripping pit allows water to infiltrate into the mine pool (top).

A low-tech solution to high acidity in discharge is to pass the water through a container which holds limestone (bottom).

Wadesville Strip Mine, Mammoth Coal Vein – Notice folded rocks in far walls