

PAUL BEHUM, SENIOR HYDROLOGIST

Passive and AMD Treatment Design

PSD has assisted all of the Midwestern states (except for Mississippi (have in some form received PSD assistance in passive-type AMD treatment design). This support has ranged from simple design information transfer, to development of conceptual passive treatment design to development of an engineering design that is essentially ready for State engineer's approval. Typical PSD projects include state support during construction and the post-construction monitoring of the facility that may entail development of formal operating and monitoring plans.

Equipment:

Multi-parameter meter for pH, specific conductance (SC), temperature, dissolved oxygen (DO), and oxidation and reduction potential (ORP)

Portable colorimeter (field determination of dissolved ferrous and ferric iron)

Portable spectrophotometer (field determination of sulfide and nitrite at sites will installed bioreactor cells)

Field alkalinity test kit

Apparatus to measure flow (site specific- includes a portable flume, a velocity measuring device or a temporary weir and pressure transducer installation)