

# Environmental control technology survey of selected US strip mining sites Volume 2C - eastern Kentucky (water quality impacts an doverburden chemistry of eastern Kentucky study sites)

s.n - Surface mine water quality control in the Eastern Kentucky coal fields. Final report (Technical Report)



Description: -

-Environmental control technology survey of selected US strip mining sites Volume 2C - eastern Kentucky (water quality impacts an doverburden chemistry of eastern Kentucky study sites)

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## Environmental

In this study several approaches have been explored to establish the use of the pH<sub>Zpc</sub> as a practical means of minimizing suspended solids in water reservoirs. Sedimentation ponds at TN-2 do not appear effective in controlling pH, iron, and manganese. The capability of a fungus isolated from Eastern Kentucky mine drainage to remove sulfur from coal was determined.

### pH<sub>Zpc</sub>: a new concept for predicting and managing suspended solids in sedimentation ponds (Conference)

The study, designed and primarily aimed at the pre-mining identification of potential chemical pollution characteristics, will serve to strengthen state programs directed toward protecting Kentucky's streams and rivers. The results were compared to the effluent limitations guidelines for total suspended solids as promulgated under the Clean Water Act for Coal Mining Point Source Category and adopted under the Surface Mine Control and Reclamation Act of 1977 and the resulting state regulatory programs. In general, water quality in receiving streams below each mine is poor due to previous mining and inherent conditions such as poor substrate, low-volume discharges, and naturally low pH.

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At Mine TN-1, treatment of acid drainage by diversion through limestone-riprapped channels and an automatic NaOH feeder did not appear effective in controlling pH, iron, and manganese.

### pH<sub>Zpc</sub>: a new concept for predicting and managing suspended solids in sedimentation ponds (Conference)

Abstract This report and accompanying field manual offers the Commonwealth of Kentucky a means to aid in the control of chemical stream pollution resulting from surface mining. Water-quality data for parameters included in the federal regulations generally indicated a sharp contrast between water in the mined area and water in the coal-cleaning-plant area.

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The seven projects funded by the Institute in Fiscal Year 1984 are: For Identification of Soil-Water Chemical Parameters for the Prediction and Treatment of Suspended Solids in Surface Water Reservoirs of Coal Mine Lands; Modeling of Overland Flow by the Diffusion Wave Approach; A Model for Assessing the Visual Resources of River Basins as an Aid to Making Landuse Planning Decisions; Development of General Guidelines for the Planning of Stormwater Management Facilities; Application to Urban Watersheds in Kentucky; Reductive Dechlorination of Toxic Chlorocarbons; Investigation of Pollution in a Karst Aquifer Utilizing Optical Brightener; and Hydraulic Design Algorithms for Upgrading and Enhancing Water Distribution Systems.

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This water is contaminated by suspended solids which have to be removed before the water can be discharged downstream. There is a general lack of neutralizers in the overburden sequence.

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