



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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January 17, 1989

TO: Susan C. Linner, Permit Supervisor

FROM: Henry Sauer, Reclamation Soils Specialist *HS*

RE: Slurry Fines Removal, MRP Amendment, Genwal Coal Company,  
Wellington Preparation Plant, ACT/007/012-8C, Folder #2,  
Carbon County, Utah

## SYNOPSIS

The operator has submitted a proposal to remove coal fines from the slurry ponds on the Wellington Preparation Plant site.

## ANALYSIS

Genwal's proposal presents a unique opportunity to examine and characterize the physio-chemical, depositional and temporal variation within the slurry pond fill. Variables which may greatly effect the acid and/or toxic forming potential of the coal fine material are as follows: source of coal (geologic/recovery setting); texture; moisture content; relative age (i.e. cross section positioning). Examinations of these and other factors may facilitate accurate and quantifiable coal quality predictions for the unexcavated slurry fines. Hence, the operator should maintain good quality control standard when sampling slurry.

## RECOMMENDATIONS

The operator must collect, at a minimum, one depth segregate sample per acre. Samples should be taken at the following depth increments: 0"-6"; 6"-12"; 12"-24"; and every 3 feet thereafter to the depth of removal. Sampling increments may vary according to the uniformity of the fill material.

Sample site location must be depicted on appropriate map or plate.

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Genwal Coal Company  
ACT/007/012-89C

The following constituents must be analyzed to determine the slurry's acid and/or of toxic-forming potential: pH, electrical conductivity, saturation percentage; particle size analysis (texture); soluble Ca, Mg and Na, sodium absorption ratio; hot water soluble selenium and boron; maximum acid-potential; neutralization potential. Laboratory methodologies should be those outlined in the Division Guidelines for Management of Topsoil and Overburden, Table 6. The laboratory procedures for determining the maximum acid-potential should be revised as follows: U.S. EPA 1978. EPA-600/278-054. Method 3.2.6, page 60.

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cc: R. Harden  
BT37/63-64