

SLIPPERY ROCK CREEK WATERSHED

PROPOSED

MINE DRAINAGE POLLUTION ABATEMENT

PROJECT AREA DESCRIPTION & MAPS

LEGEND FOR PROJECT MAPS 1-37



Strip Mine Areas-No Reclamation Recommended



Strip Mine Areas-Reclamation Recommended



Deep Mine Areas - No Sealing Recommended - Approx. Mined Out Area



Deep Mine Areas - Sealing Recommended - Appox. Mined Out Area



Deep Mine Areas—No Sealing Recommended—Mined Out Area Unknown



Deep Mine Areas-Sealing Recommended-Mined Out Area Unknown



Refuse Piles-Reclamation Recommended

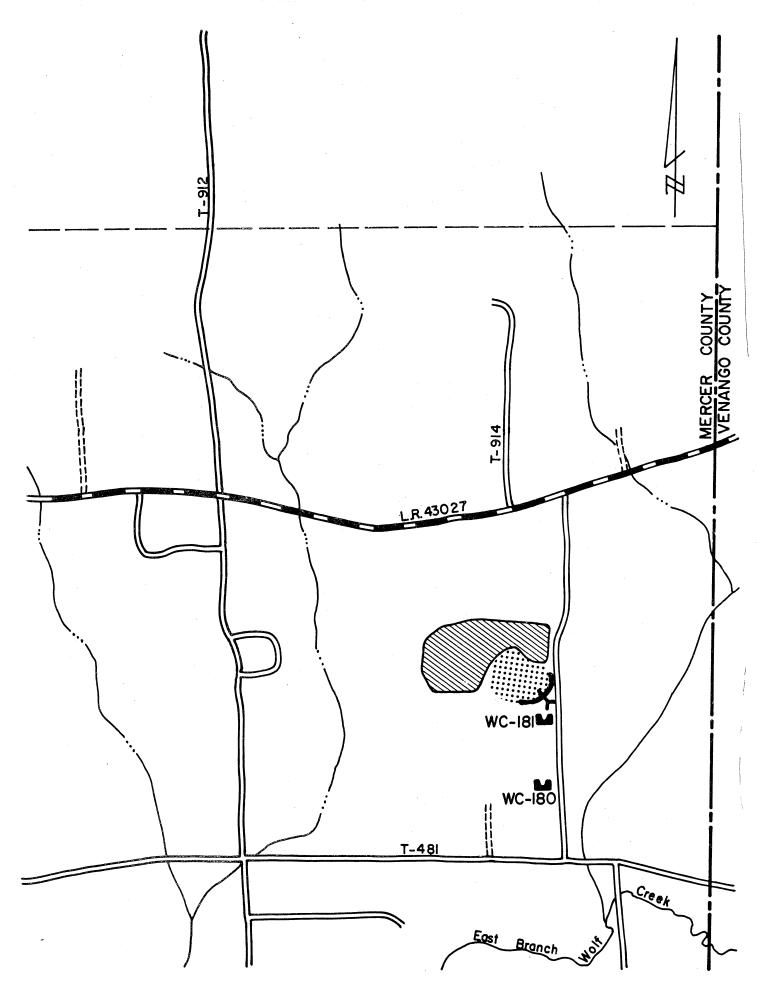
Weir Locations

Location Nutts Corners Township Wolf Creek County Mercer

Priority Rating 1

This area has a small deep mine in the Clarion seam with a discharge at Weir WC 181 flowing into a tributary of Wolf Creek. During 1969, this discharge had an average acid production of 128 pounds per day and a maximum acid production in the range of 440 pounds per day. Associated with the deep mine is a strip mine which has been backfilled and planted. The proposed abatement work consists of hydraulic sealing of 2 to 3 deep mine entries and the installation of a grout curtain along the highwall in the applicable area.

Deep Mine Hydraulic Seals	\$35,000
Grout Curtain Installation	5,000
Design, Supervision and Inspection	<u>4,000</u>
Estimated Reclamation Costs	\$44,000



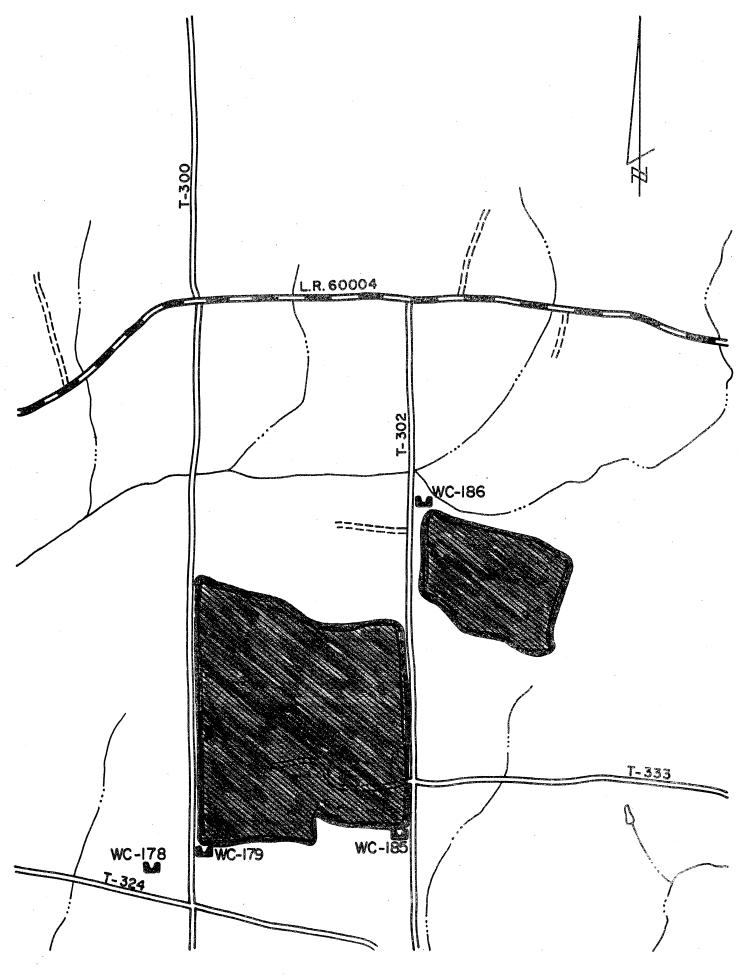
PROJECT MAP NO. I
DEEP MINE NEAR NUTTS CORNERS

Location Interstate 80 Township Irwin County Venango

Priority Rating 1

This area comprises 160 acres of the Clarion seam and has been strip mined and partially backfilled. Very little vegetation is growing on the porous sandstone spoil. The numerous depressions and lack of diversion ditches allow the precipitation to percolate down through the spoil and emerge as discharges through Weirs WC 178, WC 179, WC 185 and WC 186 into the East Branch of Wolf Creek. These discharges have an average acid production of 373 pounds per day and a maximum acid production of 660 pounds per day. The proposed abatement work consists of an estimated 30 to 40 acres of strip mine restoration with diversion ditch construction, and spoil pile neutralization via lime injection on an estimated 120 acres of strip mined area.

Strip Mine Reclamation	\$ 40,000
Lime Injection	200,000
Design, Supervision and Inspection	<u>25,000</u>
Estimated Reclamation Costs	\$265,000



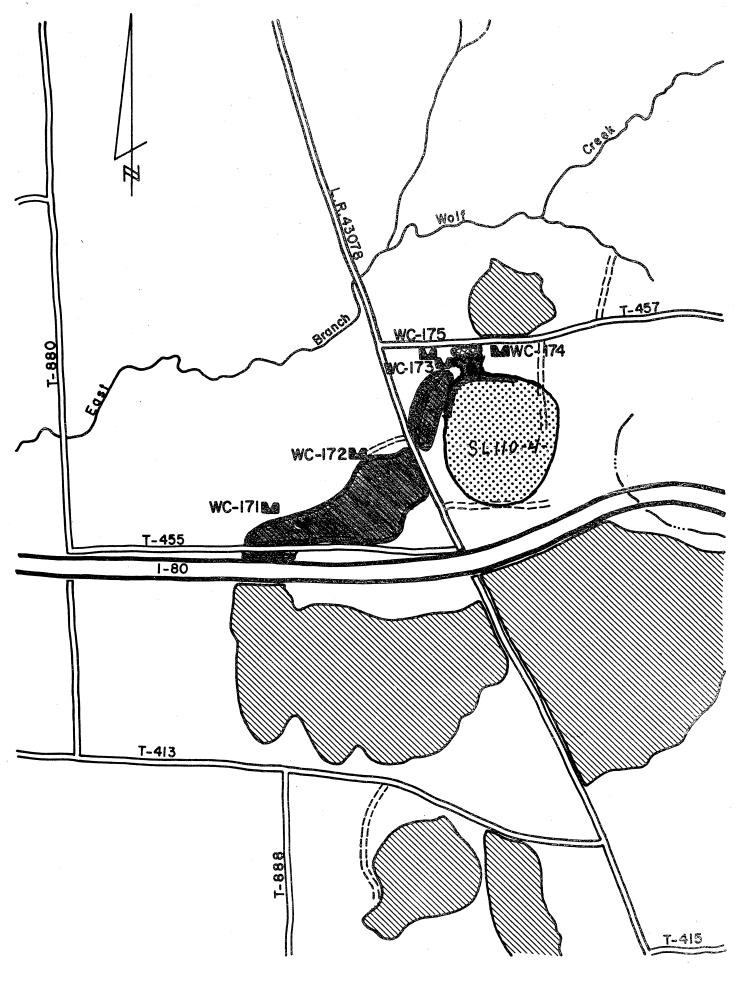
PROJECT MAP NO. 2 STRIP MINE NORTH OF 1-80

Location Highland Fuel Township Wolf Creek County Mercer

Priority Rating 1

This area consists of the Highland Fuel deep mine, refuse pile and strip mines in the Clarion seam of coal. The mine drainage discharge flows mainly through Weir WC 173 into the East Branch of Wolf Creek. This occurs immediately above a proposed Soil Conservation Service dam site. In 1969, this area produced an average of 659 pounds of acid per day and a maximum of 1240 pounds of acid per day. The proposed abatement plans consists of hydraulic sealing of 2 to 3 deep mine entries, several hundred lineal feet of grout curtains along the applicable highwall and outcrop areas, an estimated 30 acres of strip mine restoration and an estimated 5,000 cubic yards of refuse pile reclamation.

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Deep Mine Hydraulic Seals	\$ 50,000
Grout Curtain Installation	100,000
Strip Mine Reclamation	30,000
Refuse Pile Reclamation	10,000
Design, Supervision and Inspection	20,000
Estimated Reclamation Costs	\$210,000



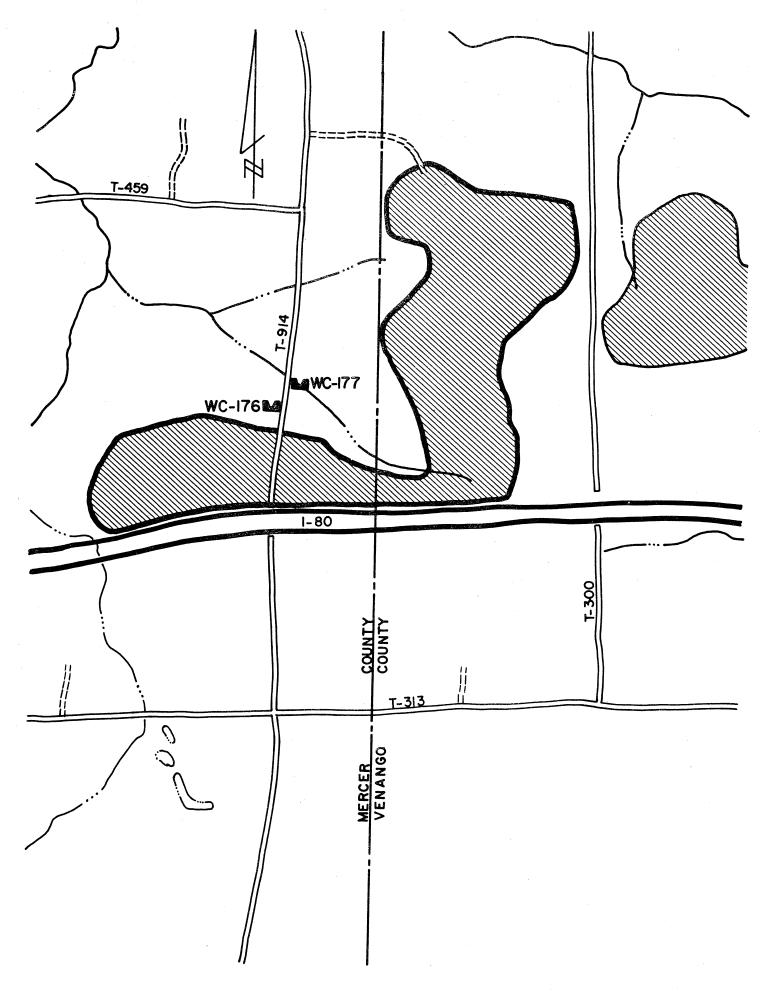
PROJECT MAP NO. 3 HIGHLAND FUEL AREA NO. 1

Location Interstate 80 Township Wolf Creek County Mercer

Priority Rating 3

This area consists of a strip mine of 170 acres in the Clarion seam of coal. The discharge flows through Weirs WC 176 and WC 177 into the East Branch of Wolf Creek above the proposed Soil Conservation Service dam site. The spoil is primarily sandstone and should be further backfilled to eliminate depressions, neutralized and planted. During 1969, the discharge produced an average acid load of 31 pounds per day with a maximum acid load in the range of 100 pounds per day. The proposed abatement plans consists of additional backfilling work for an estimated 75 acres and spoil neutralizations with lime injection in selected locations on the 170 acres.

Strip Mine Reclamation	75,000
Lime Injection	100,000
Design, Supervision and Inspection	15,000
Estimated Reclamation Costs	\$190,000



PROJECT MAP NO. 4 STRIP MINE NORTH OF 1-80