

FOR THE COGLEY RUN WATERSHED STUDY

## OPERATION SCARLIFT



#### COMMONWEALTH OF PENNSYLVANIA

MILTON J. SHAPP GOVERNOR
DEPARTMENT OF ENVIRONMENTAL RESOURCES
MAURICE K. GODDARD SECRETARY

SL 1001

JANUARY 1975

DEPARTMENT OF ENVIRONMENTAL RESOURCES

OFFICE OF RESOURCES MANAGEMENT

EBENSBURG DISTRICT OFFICE

#### **TABLE OF CONTENTS**

THE RE	EPORT	. 1
	REPORT ABSTRACT	. 2
	INTRODUCTION	.4
	PURPOSE	.6
BASIN	DESCRIPTION	. 7
	LOCATION	. 8
	PHYSIOGRAPHY AND GEOLOGY	. 8
METHO	DDS OF STUDY	12
	COLLECT AND REVIEW ALL DATA	13
	RECONNAISSANCE	13
	CONTROL SAMPLING	1.6
	DETAILED FIELD EXPLORATIONS	1.7
	EVALUATION OF SOURCES OF CORRECTIVE MEASURES	1.8
STUDY	RESULTS	19
	STREAM QUALITY	20
	SAMPLING AND MEASURING RESULTS	20
	THE SULFATE MATERIALS BALANCE	21
	ACID LOAD DISTRIBUTION	23
	OTHER LOAD DISTRIBUTIONS	23

# TABLE OF CONTENTS (CONTINUED)

OTHER POLLUTION SOURCES	27
ABANDONED OIL WELL	28
SMALL REFUSE PILES	28
COAL TEST PITS	28
DESCRIPTION OF SAMPLE POINTS AND SOURCE LOCATIONS	30
SAMPLE POINTS	31
SOURCE AREAS	34
ABATEMENT MEASURES AND COSTS	36
SAMPLING DATA	40
LAND OWNERSHIP LISTING	

### **LIST OF FIGURES**

LOCATION MAP	9
COGLEY RUN WATERSHED LOCATION	10
TYPICAL V-NOTCH WEIR	14
TYPICAL RECTANGULAR WEIR	15
SULFATE DISTRIBUTION MAP	22
ACID DISTRIBUTION MAP	24
FERROUS IRON DISTRIBUTION MAP	25
TOTAL IRON DISTRIBUTION MAP	26
SAMPLING POINTS AND WEIR LOCATIONS	32
SOURCE AREA MAP	35
SOURCE AREA AND DESCRIPTION MAP	38
SAMPLING POINTS AND WEIR LOCATIONS	41
PROPERTY OWNERSHIP MAP	61