

RECLAMATION PRIORITIES

Based on the results of the investigations conducted, priorities were established for each of the project areas investigated. The criteria for evaluating each project area included the relative acid load, cost of reclamation, relative benefit to the receiving stream, effectiveness of the proposed reclamation measures, and the possibility of future mining activity in the area.

The following tabulation gives the relative priority of each project area, discharge, total acid contribution and associated reclamation cost.

TABULATION OF RECLAMATION PRIORITIES

Priority No.	Area	Discharges	Flow (g.p.m.)	Total Acid (lbs./day)	Total Cost	Cost (per lb/day)
1.*	III (A)	109,110	65	255	\$ 27,900	\$ 156
2.*	I (A)	103,104 105,106	149	200	97,300	608
* - 3.*	XXIX (A)	159,160	99	123	56,700	659
4.*	XXXIII	164	10	66	51,600	974
5.*	XX	137,180	53	266	15,000	163
- 6.*	XXXVIII(A)	174,175	168	65	98,600	2,143
* - 7.*	XXXIX	176,177,181	161	1,125	425,000	539
8.*	XVII	132,133	187	711	128,600	258
9.	VII	115	9	17	8,100	675
10.	III (B)	109,110	65	255	100,800	659
11.	I (B)	103,104 105,106	149	200	170,800	1,553
12.	XLIII	184,185,203	est. 73	est. 246	30,000	144
13.	XLV	101,188	est. 19	est. 58	20,000	408
14.	XXIX (B)	159,160	99	123	89,300	1,313
15.	XVI	130	19	147	75,900	1,286
16.	XV (A)	125,127,128, 129,131	98	253+	247,300	1,754

\* Immediate Action Project

Priority No.	Area	Discharges	Flow (g.p.m.)	Total Acid (lbs/day)	Total Cost	Cost (per lb/day)
17.	XV (B)	125,127,128, 129,131	90	236+	\$235,300	\$1,796
18.	XXV (A)	144	19	110	70,800	1,815
19.	XXXVIII(B)	174,175	168	65	98,600	2,739
20.	XI	122	34	106	109,700	2,070
21.	XII	123,124	7	28	26,400	2,400
22.	XXXII (A)	163,165	120	146	198,100	2,251
23.	XXV (B)	144	19	110	175,800	2,664
24.	X (A)	120,121	4	9.5	12,000	3,000
25.	X (B)	120,121	4	9.5	24,000	3,429
26.	XXI	138	10	12	15,000	1,875
27.	XXXII (B)	163,165	120	146	201,100	3,467
28.	II	107,108	63	13	46,500	3,875
29.	XL (B)	179	6	24	39,600	4,950
30.	IX	119	11	41	126,600	5,064
31.	XIX	135,136	5	33	90,500	5,324
32.	XXXI	162	6	13	42,000	6,000
33.	XXVII (B)	154,155, 156,157	31	14	43,700	7,283
34.	XXXIV	166,168,170 171,172	18	27	75,000	9,375
35.	XL (A)	179	6	24	119,100	9,925
36.	XXII	139,140	1	7	48,600	12,150
37.	XXVII (A)	154,155, 156,157	31	14	112,700	14,088
38.	XLI	182,187	12	15	79,100	15,820
39.	XVIII (A)	134	5	5.4	106,200	21,240
40.	XVIII (B)	134	5	5.4	79,200	26,400
41.	V	112,178	13	2.6	26,600	26,600

### IMMEDIATE ACTION PROGRAM

The purpose of an immediate action program is to identify a few reclamation projects which, if implemented, would have a significant impact in reducing acid mine drainage pollution. Projects considered for inclusion in an immediate action program should be of the type that can be easily implemented, and, achieve a high reduction in acid load at a reasonable cost.

Since this basic criteria was used to establish the overall reclamation priorities for the Mill Creek Watershed, the immediate action program must include the top projects in the Tabulation of Reclamation Priorities in the preceding section of this report.

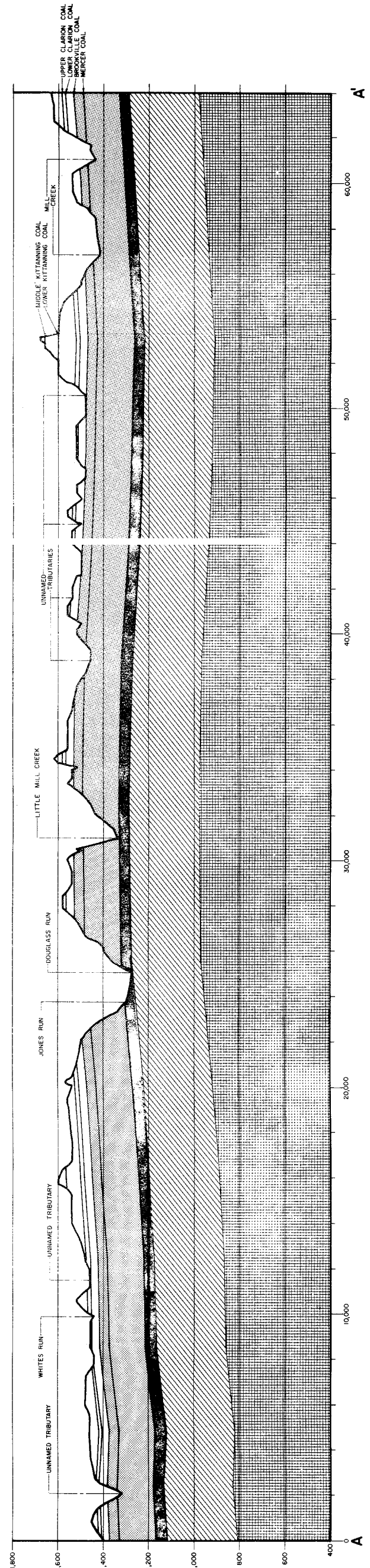
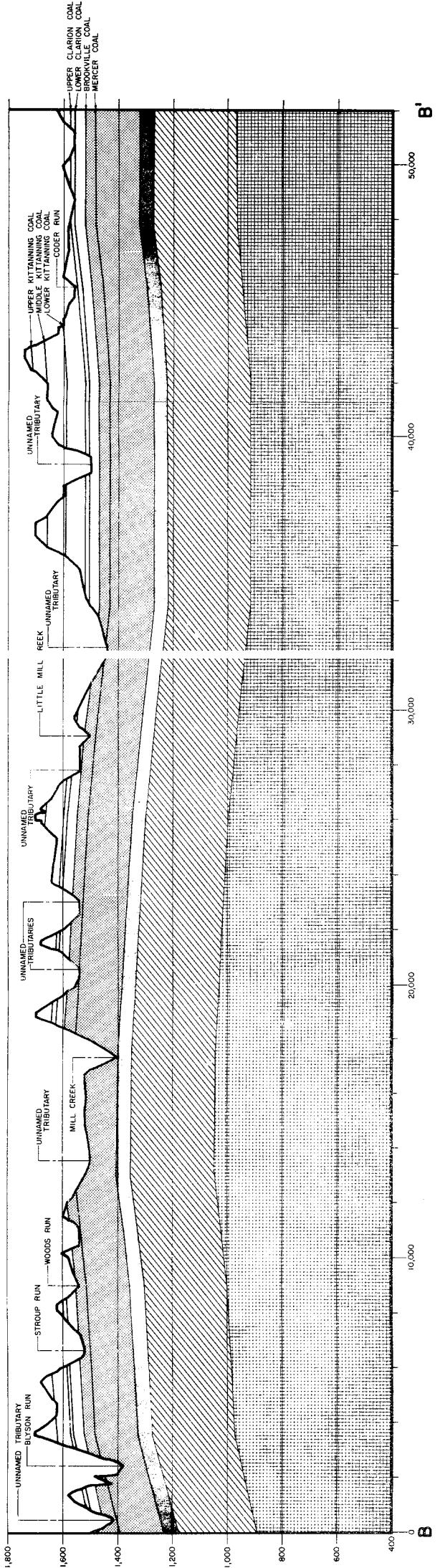
The proposed Immediate Action Program for the Mill Creek Watershed should include the first 8 projects in the Tabulation of Reclamation Priorities. These projects contribute approximately 67% of the recorded acid load entering Mill Creek and its tributaries from mining sources.

EXHIBIT I

GENERALIZED STRATIGRAPHY OF THE MILL CREEK WATERSHED

FORMATION	MEMBER	COLUMNAR SECTION	APPROXIMATE THICKNESS	ROCK TYPE
ALLEGHENY	FREEPORT	[Pattern]	325'	COAL
	KITTANNING	[Pattern]		CLAYS
	CLARION	[Pattern]		SANDSTONES
POTTSVILLE	BROOKVILLE	[Pattern]	200'	COAL
	LONSGUE	[Pattern]		CLAYS
	MESSING	[Pattern]		SANDSTONES
POCONO	PATTON	[Pattern]	25'	REG. SHALES
	SHEWAGO	[Pattern]		SANDSTONES
OSWAYO		[Pattern]	600'	SHALES
		[Pattern]		SANDSTONES

NOTES:  
 THE WALCH CHUNK FORMATION AND BURGOON SANDSTONE HAVE BEEN ENTIRELY REMOVED BY EROSION OR WERE NEVER DEPOSITED IN THIS AREA. THE PATTON MEMBER IS NOT SHOWN WHERE IT IS NOT KNOWN TO BE PRESENT OR WHERE PATTON MEMBER WHERE PRESENT AND THE OVERLYING POTTSVILLE ROCKS.  
 GEOLOGIC INTERPRETATION OF WATERSHED CROSS-SECTIONS IS BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE.  
 HORIZONTAL AND VERTICAL DISTANCES ON CROSS-SECTIONS ARE GIVEN IN FEET.



# MILL CREEK WATERSHED

CLARION COUNTY, JEFFERSON COUNTY PENNSYLVANIA



COMMONWEALTH OF PENNSYLVANIA  
**DEPARTMENT OF ENVIRONMENTAL RESOURCES**  
MINE DRAINAGE PROJECT SL 133-5

**GEOLOGIC CROSS SECTION**



EXHIBIT 2  
MINE DRAINAGE PERMITS

Clarion Township, Clarion County

<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
James Kerle Coal Co.	South of Rt. 322 at Day (Area XX)	2765BSM35	Inactive
C & K Coal Co., Inc.	Northwest of Strattanville bordering T-572 on the east.	2767BSM5	Inactive
W. P. Stahlman Coal Co., Inc.	South of Rt. 322 at Day (Area XX)	2767BSM12	Inactive
H & G Coal and Clay Co., Inc.	North of and bordering Strattanville	3673SM13	Active
Zacherl Coal Co.	East side of L.R. 16091 (Area XIV)	3674SM14	Active
Mauersberg Coal Co.	East side of T-490 (at Area X)	3675SM27	Active
Zacherl Coal Co.	Adjacent T-572 just north of Strattanville	3675SM51	Active
Midway Resources Inc.	South of Rt. 322 at Day (Area XL)	3675SM66	Active
W. P. Stahlman Coal Co., Inc.	Along east side of T-490 at Area XI	3676SM21	Active

<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
Glacial Minerals, Inc.	East of T-572 at Area I	3676SM39	Pending

Millcreek Township, Clarion County

<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
H & G Coal and Clay Co., Inc.	Area V	2767BSM8	Active
H & G Coal and Clay Co., Inc.	East of L.R. 16055 .6 mile south of Fisher	2767BSM10	Inactive
H & G Coal and Clay Co., Inc.	North of T-571 and West of L.R. 16055 (Area VIII)	2768BSM11	Inactive
W. P. Stahlman Coal Co., Inc.	Near intersection of T-320 and T-563 (Area XXX)	3776SM6	Active

Eldred Township, Jefferson County

<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
W. P. Stahlman Coal Co., Inc.	Adjacent to L.R. 33014 2500 feet north of Mill Creek	3871BSM9	Inactive
Fariview Coal Co.	Along T-355, 3000 feet west of Pa. Rt. 36	3875SM7	Active



<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
R.E.M. Coal Co., Inc.	4000 feet due west of junction of T-350 and L.R. 33008	3875SM19	Active
W. P. Stahlman Coal Co., Inc.	Contiguous to and on the south side of 3875SM19	3875SM37	Active
W. P. Stahlman Coal Co., Inc.	West side of L.R. 33082, 2000 feet south of junction with T-355	38A76SM9	Active
MYC-ONE Inc.	Along L.R. 33014, 3500 north of junction with L.R. 33008	38A76SM28	Pending
Colt Resources, Inc.	Along T-346 of southwest corner of 38A76SM28	38A77SM6	Pending

Union Township, Jefferson County

<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
W. Paul Glenn	North of T-660 and west of L.R. 33008, north of Corsica	19105	Inactive



<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
H & G Coal and Clay Co., Inc.	North of T-353 and west of T-342 (Area XXXI)	3066BSM26	Inactive
James Kerle	North of T-349 and west of T-346 (adjacent Area XXVIII)	3067BSM10	Active
H & G Coal and Clay Co., Inc.	Area XLI	3067BSM26	Inactive
W. P. Stahlman Coal Co., Inc.	North of T-347 and west of L.R. 33014	3067BSM34	Active
W. P. Stahlman Coal Co., Inc.	North of T-347 and east of T-346 (Area XXXVI)	3067BSM35	Inactive
R. E. M. Coal Co., Inc.	Adjacent T-320 and north of T-660	3874SM2	Active
W. P. Stahlman Coal Co., Inc.	East of L.R. 33008 on south side of Mill Creek	3874SM15	Active
Bracken Construction Co.	Contiguous to 3067BSM34	3874SM19	Active
R.E.M. Coal Co., Inc.	Bisected by T-353 at Area XXXI	3874SM44	Active
W. P. Stahlman Coal Co., Inc.	Between I-80 and U.S. 322 east of Corsica	3875SM51	Active

<u>Operator</u>	<u>Location</u>	<u>Permit No.</u>	<u>Status</u>
W. P. Stahlman Coal Co., Inc.	Just northwest of Interchange 12 of I-80	3875SM55	Active
Robert Fagley	Between I-80 and U.S. 322 east of Corsica	3875SM56	Active
W. P. Stahlman Coal Co., Inc.	North of I-80 at Roseville	38A76SM14	Active
C & K Coal Co.	Area XXXII	38A76SM26	Pending