WATER QUALITY DATA FROM CRITICAL SEEPS AND POOLS

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

BULLION RUN SUBWATERSHED

MINE SITE 1

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
7-7-72	Pool in Area #5		6.7	10		70		.05		59	
	MINE SITE 4										
7-3-72	SS #3 Seep Drainage pt. "a"	140	4.0	130	230			.05	.90	95	170
7-6-72	Pool, See End of Mine in Area #3		3.6	750				14.5		1420	
7-6-72	Drainage at Discharge pt. "b"	100	3.5	820	984			15.5	18.6	1120	1344
	MINE SITE 5										
7-6-72	Large Pool in Area #3		4.0	60				.15		73	
7-6-72	West Seep Drainage into Bullion Run	160	3.9	210	400			1.2	2.3	375	720

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

BULLION RUN SUBWATERSHED

MINE SITE 5 (cont'd.)

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
7-12-72	Pool at Base of Highwall at Bend in Area #3		3.95	150				1.25		88	
7-12-72	Old Family Mine Discharge, 100 yds. North of Strip Spoil	30	4.7	630	226.8			7.6	2.7	660	237.6
	MINE SITE 9										
7-3-72	Pool in Area #9		4.9	30				.30		40	
7-12-72	Stream Below Discharge pt. "d" 200 yds. downstream	100	3.88	450	540			3.05	3.66	185	222
7-12-72	Stream Discharge at pt. "d"		3.55	500				8.2		290	
7-12-72	Stream Discharge at pt. "b"	42	4.75	80	40.3	20	10.1	.075	.04	2.0	.0
7-12-72	Discharge at pt. "a"		6.7	180		100		.25		64	
7-12-72	Pool Near Area #4		4.85	210		120		.05		6.0	

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

BULLION RUN SUBWATERSHED

MINE SITE 12

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
7-13-72	Pool in Area #7		3.8	160				.3		5.0	
7-13-72	Pool in Area #4		5.1	20		15		.2		5.0	
7-13-72	Drainage, Seep in Area #6, Discharge pt. "b"	24	4.0	60	17.3			.35	.10	110	31.7
7-13-72	Seep in Area #8 after Passing Over Bony Pile	2	3.9	230	5.52			2.6	.07	200	4.8

TROUT RUN SUBWATERSHED

MINE SITE 18

10-3-72	Seep along Pa. Rt. 308	30	3.5	240	86.4			3.3	1.2	600	216

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

GILMORE RUN SUBWATERSHED

MINE SITE 13

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
7-26-72	Seep "b" at Base of Spoil Pile in Area #11 along T-335	3	3.3	430	15.48			8.25	.29	500	18.0
7-26-72	SS #9 Drainage at pt. "a"	110	4.0	160	211.2			1.20	1.58	2.40	3.1
7-31-72	Pool Along Highwall in Area #2		4.0	145				1.05		330	
8-8-72	SS #9 Drainage at pt. "a"	108	3.0	220	285.1			1.75	2.27	275	356.4
8-9-72	SS #8 Drainage from East Side of Site #13	210	3.2	390	982.8			2.9	7.3	1000	2520
8-17-72	Swamp Southeast of Area #4 Seep "d"	40	6.3	20	9.6	25	12.0	.10	.05	44	21.1
8-17-72	Seep "c" at Base of Spoil	3.1	4.45	65	2.4	5	.19	.05	.002	40	1.49

MINE SITE 14

8-1-72	Ponding at East End of Mine		4.0	75				1.2		43	

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

GILMORE RUN SUBWATERSHED

MINE SITE 15

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
8-8-72	Pond in Area #7		7.4	10		75		.10		12	
8-8-72	Gilmore Property Well		6.8	70		140		.05		21	
8-8-72	Discharge at pt. "a"	26	3.2	215	67.1			3.9	1.22	550	171.6
8-17-72	Gilmore Property Well		6.6	35		90		.05		20	
1-5-73	East Headwater Tributary to Henderson Run above SS #8	30	3.75	220	79.2			1.5	.59	540	194.4
	MINE SITE 16										
8-1-72	Drainage at pt. "b"	40	5.3	50	24	40	19.20	.60	.29	3.5	1.68

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

GILMORE RUN SUBWATERSHED

MINE SITE 17

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
7-20-72	Pool in Area #11		4.0	70				.80		310	
7-20-72	Pool in Area #1, Extreme N.W. Corner of Mine Along T-335		6.7	30		170		.10		62	
8-9-72	SS #59 Drainage from South End of Mine	6	3.2	205	14.8			3.9	.28	280	20.2
8-9-72	Foundation of Old House at Base of Spoil; Eastern Edge of Area #9 Seep "h"	9	3.2	350	37.8			6.0	.65	500	54
8-9-72	Headwaters of Peterson Run (SS #59)		3.0	270				3.2		330	
8-10-72	Seep at Discharge pt. "e" in Area #15	3	2.8	2160	77.8			3.6	.13	1820	65.5
8-10-72	Seep at Discharge pt. "c" in Area #17	13	2.6	3490	544.4			30.0	4.7	300	46.8
8-10-72	Pond in N.W. Section of Area #14, Drainage thru Seep "b" (Wet Weather Pond)		3.6	60				1.0		220	
7-20-72	SS #45 Seepage from Areas #1 & #2		3.8	220				3.4		1025	
8-24-72	Pool in Area #12 near Seep "a"		6.2	20				.75		9.0	

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

GILMORE RUN SUBWATERSHED

MINE SITE 17 (cont'd.)

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
8-24-72	Pool Outside Area #10 near Seep "b"		2.8	370				3.7		1280	
8-24-72	Left Fork Near Seep "b"		7.0			110		.25		180	
8-24-72	Right Fork, Actual Seep "b"	5	2.9	310	18.6			4.1	.25	1080	64.8
8-24-72	Seep "f" Outside Mine Near Areas #12 & #14		2.9	430				5.8		1380	
8-24-72	Lower Seep Rt. 308 Below SS #45 Seep "g"		2.4	820				15.0		1640	
8-24-72	Pond in N.W. Corner of Area #14, After Recent Runoff Drainage then Seep "b"		4.2	30				.55		25	

MINE SITE 26

7-31-72	Seep at Drainage pt. "a"	60	3.4	440	316.8			8.75	6.30	500	360
7-31-72	Seep at Drainage pt. "c"	25	3.9	180	54			.60	.18	920	276

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

GILMORE RUN SUBWATERSHED

MINE SITE 33

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
8-11-72	Scrubgrass Creek in woods below Mine	1796	4.0	80	1724			7.5	162	120	2586
8-11-72	Flow out of Swamp in woods below Mine into Scrubgrass Creek		6.6	30		25		4.3		70	

UPPER MAIN STREAM SUBWATERSHED

MINE SITE 10

10-10-72	Seep "f", Spring flowing out of Spoil		6.7	40		120		.05		110	
10-10-72	Pool in Area #5		7.2	10		15		.10		6	
10-10-72	Pool in Area #7		4.7	150				.10		375	
10-10-72	Pool in Area #9		5.8	30				.05		85	
10-10-72	Pool in Area #12		4.9	30				.10		400	
10-10-72	Pool in Area #16		2.9	860				.10		420	

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

UPPER MAIN STREAM SUBWATERSHED

MINE SITE 10 (cont'd.)

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
10-10-72	Pool in Area #17		3.5	130				7.5		500	
10-10-72	Pool in Area #18		3.3	240				5		60	
10-10-72	Pool in Area #19		3.9	45				.25		225	

EAST TRIBUTARIES SUBWATERSHED

MINE SITE 35

8-8-72	Seep through Discharge pt. "a"	10	5.2	310	37.2	115	13.8	1.9	.23	1500	180
8-10-72	Seep through Discharge pt. "a"	10	5.6	365	43.8	150	18.0	1.35	.16	200	24

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

SOUTHWEST TRIBUTARIES SUBWATERSHED

MINE SITE 36

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
1-3-73	Abandoned deep mine seep on south side of Site #36, just off T-315 and above SS #43		3.4	680				18.0		1400	

MINE SITE 38

1-3-73	North side of Site #38 at edge of I-80		4.6	80				.05		270	

MINE SITE 40

1-3-73	Spoil Bank seepage from west side of Mine Site #40		4.4	230				.10		210	

SOUTH BRANCH SUBWATERSHED

MINE SITE 50

1-10-73	Seep from abandoned, caved in deep mine opening on east side of Mine Site #50		3.9	200				.5		225	

CHEMICAL ANALYSIS OF SEEPS AND POOLS IN CRITIAL AREAS

MISCELLANEOUS SAMPLES

Date	Location	GPM	pH	Acidity		Alkalinity		Iron		Sulfates	
				PPM	PPD	PPM	PPD	PPM	PPD	PPM	PPD
8-24-72	Seep Along Bullion Road North Side of Trout Run		6.0	5		30		3.2		48	
1-2-73	Below abandoned caved-in deep mine openings above Sampling Station #42		6.95	3		20		.05		13	
1-3-73	Flow through small culvert between lanes on I-80 near west bound rest stop between Clintonville & Barkeyville		6.8	3		30		.10		210	
1-3-73	Below abandoned, caved-in deep mine opening on hill above T-315 and SS #43		7.2			20				8.0	
1-5-73	Seep from depression in hill above SS #8	15	3.5	270	48			.40	.072	560	100.8
1-10-73	Seep from apparent abandoned deep mine opening about 500' north of Site #50	5	4.3	40	6.4			.05	.003	70	4.2
1-10-73	Seepage from hill about 750' north of Site #50	10	4.5	300	36			.05	.006	410	49.2