

APPENDIX A
WATER QUALITY DATA FROM ROUTINE SAMPLING PROGRAM

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WATER QUALITY DATA FROM ROUTINE SAMPLING PROGRAM
(Greenwood #10 and Tamaqua #14 Pumps were not operated during
periods
of routine sampling)

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LITTLE SCHUYLKILL RIVER NEAR HEADWATERS

Sample Station No.1

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	3.5	100	0	180	0.8	3.0
01/11/71	3.7	22	0	32	0.1	2.75
02/25/71	3.9	22	0	95	0	0.55
04/13/71	3.3	110	0	160	0.08	5.5
05/11/71	3.4	96	0	140	0	0.4
06/15/71	3.8	80	0	190	0	16
07/20/71	NO SAMPLE TAKEN - NO FLOW IN STREAM					
08/17/71	4.7	6	0	22	0	0.4
09/23/71	4.9	2	0	22	0	0.3
10/15/71	4.0	20	0	44	0	0.5
11/23/71	4.9	8	0	18	0	0.8
12/16/71	3.1	18	0	24	0	0.9
01/26/72	2.8	90	0	190	0.1	2.0
02/23/72	2.7	32	0	120	0.1	14
03/28/72	3.5	77	0	116	.2	.26
04/20/72	3.7	52	0	98	0.02	5.90

SILVERBROOK MINE DISCHARGE

Sample Station No.2

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron,mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	3.2	200	0	270	3.5	12.
01/11/71	3.2	200	0	240	0.1	4.75
02/25/71	3.1	200	0	350	0	3.5
03/10/71	3.3	130	0	220	0	2.25
04/13/71	3.3	130	0	160	0	5.5
05/11/71	3.3	150	0	210	0	11
06/15/71	3.5	142	0	300	0	8
07/20/71	3.2	130	0	375	0	2.3
08/17/71	3.5	156	0	320	10	20
09/23/71	3.3	130	0	475	0.5	3.0
10/15/71	3.2	120	0	100	0.1	2.5
11/23/71	3.1	90	0	200	0.4	7.3
12/16/71	2.8	90	0	200	0.1	3.1
01/26/72	2.7	88	0	170	0.1	6.5
02/23/72	2.6	40	0	170	0.1	8.0
03/28/72	4.6	49	1.0	136	0.1	0.24
04/20/72	3.5	84	0	195	0.03	10.6
05/03/72	3.3	108	0	155	0.08	7.2

LITTLE SCHUYLKILL RIVER UPSTREAM OF LOFTY CREEK

Sample Station No.3

<u>Sampling Date</u>	<u>pH</u>	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u> <u>Ferrous</u>	<u>Total</u>
12/07/70	3.3	160	0	220	1.4	8.5
01/11/71	3.2	120	0	140	0.1	3.5
04/13/71	3.6	90	0	180	0.1	6.0
05/11/71	3.5	120	0	190	0	8.0
06/15/71	3.6	88	0	210	0	6.0
07/20/71	3.3	100	0	300	0	1.1
08/17/71	3.7	120	0	280	9.0	11
09/23/71	3.5	100	0	220	0.1	2.5
10/15/71	3.4	108	0	170	0.6	1.9
12/16/71	3.1	48	0	95	0.1	2.8
03/28/72	3.9	66	0	104	0.12	0.18
04/20/72	3.7	59	0	170	0.06	1.66

LOFTY CREEK AT MOUTH

Sample Station No.4

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	5.0	0	0	10	0	0.7
01/11/71	4.7	2	0	16	0.1	0.1
04/13/71	4.9	2	0	20	0	0.1
05/11/71	5.6	0	4	20	0	0.4
06/15/71	6.0	0	18	32	0	0.1
07/20/71	5.5	0	0	22	0	0.4
08/17/71	5.3	0	0	14	0	0.6
10/15/71	5.7	0	0	30	0	0.2
12/16/71	4.4	6	0	30	0	0.1
03/28/72	5.3	6	3	16	0.1	0.16

LITTLE SCHUYLKILL RIVER UPSTREAM OF NEIFERT CREEK

Sample Station No.5

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	3.6	80	0	110	0.4	30
01/11/71	3.6	76	0	100	0.1	8
04/13/71	3.6	44	0	150	0	3.5
05/11/71	3.5	68	0	110	0	4.0
06/15/71	4.0	42	0	110	0	6.0
07/20/71	3.5	84	0	170	0	4.5
08/17/71	3.7	66	0	135	0	1.8
09/23/71	3.8	54	0	150	0.1	13
10/15/71	3.8	54	0	100	0.1	1.9
11/23/71	3.6	44	0	125	0.3	5.5
12/16/71	3.7	22	0	44	0	1.3
01/26/72	3.7	14	0	60	0.1	95
02/23/72	2.9	40	0	95	0.1	16
03/28/72	3,8	37	0	46	0.13	0.33
04/20/72	4,2	20	0	47	0.02	5.76

NEIFERT CREEK NEAR MOUTH

Sample Station No.6

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	6.1	0	8	12	0	0.1
01/11/71	5.5	0	2	12	0.1	0.1
04/13/71	6.5	0	4	16	0	0.1
05/11/71	6.2	0	10	22	0	0.2
06/15/71	6.5	0	24	38	0	0.7
07/20/71	6.3	0	12	24	0	0.4
08/17/71	6.6	0	9.6	18	0	0.1
09/23/71	6.4	0	6	50	0	0.6
10/15/71	6.3	0	4	18	0	0.5
12/16/71	6.0	0	8	44	0	0.1
03/28/72	6.8	4	18	12	.03	.16

LITTLE SCHUYLKILL RIVER UPSTREAM OF PINE CREEK

Sample Station No.7

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron,mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	4.1	20	0	40	0	2.4
01/11/71	4.2	20	0	32	0.1	0.8
04/13/71	4.2	18	0	38	0	0.8
05/11/71	4.1	26	0	48	0	2.0
06/15/71	4.6	0	6	24	0	5.0
07/20/71	4.1	8	0	75	0	1.9
08/17/71	4.2	30	0	75	0	0.8
09/23/71	4.4	18	0	42	0	0.6
10/15/71	4.3	22	0	48	0	0.1
12/16/71	4.6	0	0	38	0	0.7
03/28/72	4.5	14	0	16	.13	.3
04/20/72	4.7	7.3	1	24	0.08	3.2

PINE CREEK AT MOUTH

Sample Station No.8

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	4.9	4.0	0	22	0	1.0
01/11/71	6.0	2.0	0	16	0.1	0.1
04/13/71	6.4	0	4	20	0	0.1
05/11/71	6.5	0	12	20	0	0.2
06/15/71	6.9	0	24	32	0	0.3
07/20/71	6.7	0	0.4	22	0	0.1
08/17/71	7.0	0	12	22	0	0.1
09/23/71	6.7	0	4	18	0	0.1
10/15/71	6.4	0	9.6	18	0	0.1
12/16/71	6.2	0	6	28	0	0.7
03/28/72	7.0	3	9	20	.1	.2

LITTLE SCHUYLKILL RIVER UPSTREAM OF LOCUST CREEK

Sample Station No.9

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	4.4	18	0	34	0	2.56
01/11/71	4.4	6	0	24	0.1	1.0
04/13/71	4.4	18	0	0	32	1.5
05/11/71	4.3	14	0	38	0	1.1
06/15/71	4.8	0	8	48	0	3.25
07/20/71	4.4	4	0	60	0	0.4
08/17/71	4.6	14	0	50	0	0.7
09/23/71	4.9	20	0	30	0	0.7
10/15/71	4.6	10	0	40	0	0.6
12/16/71	5.0	4	0	34	0	0.1
03/28/72	4.7	11	1	31	.03	.26
04/20/72	5.2	4.9	2	25	0.06	2.12

LOCUST CREEK AT MOUTH

Sample Station No. 10

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	6.6	0	4	20	0	0.1
01/11/70	5.7	0	6	22	0.1	0.1
02/25/71	5.4	0	0	32	0	0.25
04/13/71	6.4	4	0	32	0	0.5
05/11/71	6.1	0	6	24	0	0.5
06/15/71	7.10	0	30	24	0	0.1
07/20/71	7.0	0	24	14	0	0.7
08/17/71	7.1	0	2	18	0	0.5
09/23/71	6.7	0	4	14	0	0.3
10/15/71	6.7	0	12	38	0	0.1
12/16/71	6.5	0	6	24	0	0.3
03/28/72	7.1	3	8	21	.08	.33

LITTLE SCHUYLKILL RIVER DOWNSTREAM OF LOCUST CREEK

Sample Station No. 11

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
01/11/71	5.0	0	4	20	0.1	0.3
02/25/71	5.5	0	0	22	0	0.4
04/13/71	4.8	4	0	40	0	0.8
05/11/71	4.7	12	0	36	0	0.8
06/15/71	5.0	0	10	42	0	1.6
07/20/71	4.6	12	0	60	0	0.1
08/17/71	4.9	10	0	38	0	0.7
09/23/71	6.0	0	0	24	0	0.1
10/15/71	4.7	14	0	30	0	0.1
11/23/71	5.2	0	0	18	0	1.2
12/16/71	5.5	0	6	18	0	1.4
01/26/72	4.7	0	36	18	0.1	2.5
02/23/72	4.8	0	26	38	0	0.8
03/28/72	6.6	5	9	21	.12	.24
04/20/72	5.4	2.5	3	24	0.02	1.86

ZAKREWSKY MINE DISCHARGE

Sample Station No. 12

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70		NO SAMPLE TAKEN	-	NO DISCHARGE		
01/11/71		NO SAMPLE TAKEN	-	NO DISCHARGE		
02/25/71	3.3	200	0	260	0	3.25
03/10/71	3.5	160	0	300	0	4.5
04/13/71		NO SAMPLE TAKEN	-	NO DISCHARGE		
05/11/71		NO SAMPLE TAKEN	-	NO DISCHARGE		
06/15/71		NO SAMPLE TAKEN	-	NO DISCHARGE		
07/20/71		NO SAMPLE TAKEN	-	NO DISCHARGE		
08/17/71	3.4	184	0	390	0.6	4.8
09/23/71	3.5	88	0	190	0.4	2.4
10/15/71		NO SAMPLE TAKEN	-	NO DISCHARGE		
11/23/71	3.3	120	0	375	0.3	1.9
12/16/71	3.0	110	0	300	0	1.6
01/26/72	2.7	110	0	350	0.1	2.75
02/23/72	2.6	90	0	190	0.1	1.6
03/28/72		NO SAMPLE TAKEN	-	NO DISCHARGE		
04/20/72		NO SAMPLE TAKEN	-	NO DISCHARGE		
05/03/72	3.7	138	0	220	0.20	0.96

LITTLE SCHUYLKILL RIVER DOWNSTREAM OF ZAKREWSKY MINE

Sample Station No. 13

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
01/11/71	5.0	12	0	40	0.1	0.5
04/13/71	5.2	10	0	42	0	0.3
05/11/71	4.7	12	0	32	0	16
06/15/71	4.8	0	4	70	0	2.25
07/20/71	4.4	4	0	42	0	2.9
08/17/71	4.6	22	0	60	0	1.0
09/23/71	5.3	2	0	38	0	0.6
10/15/71	4.7	0	0	38	0	0.3
11/23/71	5.4	0	16	28	0	1.0
12/16/71	5.1	9.2	0	24	0	1.4
01/26/72	4.3	4	0	22	0.1	3.25
02/23/72	4.2	2	0	24	0	1.1
03/28/72	6.1	9	3	24	.16	.19
04/20/72	5.3	2.5	3	30	0.06	1.86

WEST LEHIGH MINE DISCHARGE INTO DRAINAGE DITCH

Sample Station No. 14

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.0	900	0	1700	60	130
01/11/71	2.6	1000	0	1500	1.2	70
02/25/71	2.6	900	0	1350	0	35
04/13/71	3.0	750	0	1100	0.12	115
05/11/71	2.9	750	0	1350	11	125
06/15/71	3.0	600	0	1400	4.3	70
07/20/71	2.7	650	0	1050	0.7	42.5
08/17/71	3.0	450	0	1250	60	125
09/23/71	2.9	500	0	1550	1.9	55
10/15/71	2.7	500	0	1750	1.9	70
04/20/72	2.9	593	0	750	0.6	29.8
05/04/72	2.7	592	0	1650	2.26	74.4

EFFLUENT FROM CULVERT CARRYING WEST LEHIGH, A & D, AND SMITH
DISCHARGE INTO LITTLE SCHUYLKILL RIVER

Sample Station No. 15

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	2.8	1300	0	1400	40	75
01/11/71	2.6	4000	0	5000	80	225
02/25/71	2.6	2300	0	3200	1.8	78
04/13/71	2.7	2500	0	3000	0.13	155
05/11/71	2.7	3050	0	3400	16	220
06/15/71	2.9	2150	0	3700	2.4	120
07/20/71	2.7	4250	0	4800	0.6	200
08/17/71	2.7	2250	0	2500	0.9	240
09/23/71	2.8	3250	0	5000	1.1	140
10/15/71	2.6	4200	0	2200	38	77

LITTLE SCHUYLKILL RIVER 100 YDS. DOWNSTREAM OF
LAST AMD DISCHARGE

Sample Station No. 16

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	4.2	44	0	160	0	2.4
01/11/71	4.3	30	0	100	0.1	2.9
04/13/71	4.4	26	0	160	0	1.5
05/11/71	4.2	34	0	210	0	5.5
06/15/71	5.4	0	6	150	0	9.0
07/20/71	4.2	44	0	310	0	7.0
08/17/71	4.2	48	0	195	0	6.0
09/23/71	4.2	40	0	135	0.3	2.7
10/15/71	3.2	120	0	525	1.5	15.4
11/23/71	4.2	20	0	125	0.3	6.7
12/16/71	4.6	14	0	60	0	1.5
01/26/72	3.5	18	0	105	0	1.5
02/23/72	3.6	36	0	85	0	1.4
03/28/72	4.5	25	0	126	.18	.21
04/20/72	4.9	12.3	0	162	0.20	9.9

PANTHER CREEK NEAR HEADWATERS

Sample Station No. 17

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.9	90	0	280	0	1.0
01/11/71	4.1	62	0	250	0.1	0.1
02/25/71	0	0	0	0	0	0
03/10/71	4.1	48	0	170	0	2.75
04/13/71	3.8	60	0	185	0	0.5
05/11/71	4.1	40	0	180	0	0.8
06/15/71	4.2	136	0	230	0	0.5
07/20/71	4.2	36	0	125	0	0.9
08/17/71	3.9	92	0	320	0	0.4
09/23/71	4.0	78	0	250	0	0.6
10/15/71	4.0	80	0	260	0	0.3
11/23/71	4.4	50	0	425	0.2	13.0
12/16/72	3.8	64	0	190	0	0.1
01/26/72	3.8	68	0	225	0	0.1
02/23/72	3.7	6	0	250	0	0.8
03/28/72	4.3	58	0	132	.12	.27
04/20/72	4.1	15	0	132	0.03	1.10

EFFLUENT FROM MANBECK FINE COAL PLANT SETTLING BASIN

Sample Station No. 18

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	4.3	62	0	600	0	0.7
01/11/71	5.9	0	4	740	0.7	425
02/25/71	0	0	0	0	0	0
03/10/71	4.4	42	0	480	0	0.9
04/13/71	4.3	48	0	700	0	3.4
05/11/71	4.6	32	0	640	0	1.6
06/15/71	4.6	40	0	680	0	2.1
07/20/71	4.4	40	0	780	0	5.5
08/17/71	4.6	0	4	1450	0	0.6
09/23/71	4.2	58	0	780	0.9	4.5
10/15/71	4.2	40	0	600	0.2	4.8
11/23/71	5.9	0	20	560	1.8	550
12/17/71	3.8	48	0	1350	0	0.1
01/26/72	3.6	50	0	1000	0.1	14.5
02/23/72	3.3	36	0	760	0.1	70
03/28/72	4.3	65	0	690	.12	.44
04/20/72	4.0	39	0	680	0.13	3.84

PANTHER CREEK DOWNSTREAM OF MANBECK EFFLUENT
AND CULM SEEPS

Sample Station No. 19

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.7	140	0	420	0	1.8
01/11/71	4.0	110	0	700	0.6	125
02/25/71	0	0	0	0	0	0
03/25/71	3.9	104	0	320	0	1.35
04/13/71	3.7	122	0	500	0	1.4
05/11/71	3.8	100	0	840	0	4.0
06/15/71	4.1	96	0	460	0	0.8
07/20/71	3.7	114	0	480	0	3.0
08/17/71	3.7	136	0	700	0	1.2
09/23/71	3.8	120	0	480	0	0.9
10/15/71	3.7	154	0	1250	0	1.0
11/23/71	4.3	74	0	675	1.6	125
12/16/71	3.5	100	0	340	0	0.5
01/26/72	3.2	108	0	560	0.1	2.5
02/23/72	3.3	84	0	540	0.1	18.0
03/28/72	4.0	118	0	390	.22	.36
04/20/72	4.4	27	0	230	0.08	8.36

LANSKOAL #9 MINE DISCHARGE

Sample Station No. 20

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	0	0	0	0	0	0
01/11/71	6.0	0	14	60	0.1	0.8
02/25/71	5.8	0	4	100	0	1.3
03/10/71	6.2	0	4	95	0	0.67
04/13/71	6.3	0	8	90	0	0.6
05/11/71	6.2	0	14	105	0	0.3
06/15/71	6.6	0	30	85	0	0.1
07/20/71	6.5	6	0	75	0	1.4
08/17/71	6.3	0	4	60	0	0.5
09/23/71	6.3	0	4	22	0	0.1
10/15/71	6.3	0	6	70	0	0.1
11/23/71	6.1	0	16	60	0.1	1.5
12/16/71	6.3	0	14	100	0	0.1
01/26/72	6.1	0	2	95	0	0.3
02/23/72	5.7	0	4	75	0	0.4
03/28/72	6.9	6	14	80	.14	.19
04/20/72	5.5	5	10	78	0.02	0.88

PANTHER CREEK UPSTREAM OF COALDALE #7 MINE DISCHARGE

Sample Station No. 21

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	0	0	0	0	0	0
01/11/71	3.8	130	0	600	0.4	60
02/25/71	0	0	0	0	0	0
03/10/71	0	0	0	0	0	0
04/13/71	3.8	100	0	450	0	0.7
05/11/71	3.9	86	0	880	0	2.75
06/15/71	4.4	74	0	400	0	0.6
07/20/71	4.0	105	0	440	0	6.25
08/17/71	4.0	124	0	760	0	10.5
09/23/71	4.0	92	0	95	0	0.9
10/15/71	3.9	136	0	1000	0	1.3
11/23/71	4.2	80	0	390	1.2	77
12/16/71	3.9	80	0	225	0	0.1
01/26/72	3.4	80	0	470	0.1	2.0
02/23/72	3.3	58	0	500	0.1	5.0
03/28/72	4.4	75	0	350	.20	.27
04/20/72	4.6	16	1	225	0.06	8.0

COALDALE #7 MINE DISCHARGE

Sample Station No. 22

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.8	144	0	160	0	1.1
01/11/71	3.6	84	0	160	0.1	0.8
02/25/71	3.5	124	0	200	0	0.7
03/10/71	3.7	72	0	110	0	0.45
04/13/71	3.9	40	0	90	0	0.4
05/11/71	4.1	42	0	105	0	1.3
06/15/71	4.0	70	0	370	0	0.1
07/20/71	0	0	0	0	0	0
08/17/71	3.8	106	0	195	0	1.1
09/23/71	3.8	98	0	195	0	0.4
10/15/71	4.0	180	0	195	0	0.02
11/23/71	4.0	58	0	100	0	0.8
12/16/71	3.4	68	0	180	0	0.1
01/26/72	3.3	52	0	190	0	0.7
02/23/72	3.1	56	0	120	0	0.7
03/28/72	3.9	65	0	144	.13	.29
04/20/72	4.0	42	0	166	0.02	1.26
05/03/72	3.9	52	0	120	0.06	0.23

PANTHER CREEK NEAR GREENWOOD #10 MINE PUMPING STATION

Sample Station No. 23

Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Ferrous	Total
12/08/70	4.6	80	0	350	0.8	1.2
01/11/71	4.1	104	0	475	0.1	6.0
02/25/71	0	0	0	0	0	0
03/10/71	4.0	94	0	310	0	1.4
04/13/71	3.8	206	0	400	0	1.0
05/11/71	3.9	104	0	840	0	6.5
06/15/71	4.4	76	0	370	0	0.7
07/20/71	4.0	90	0	320	0	1.8
08/17/71	3.8	160	0	700	0	13.0
09/23/71	4.2	90	0	320	0	0.5
10/15/71	4.0	120	0	560	0	0.02
11/23/71	0	0	0	0	0	0
12/10/71	3.8	90	0	235	0	0.1
03/28/72	4.1	98	0	310	.18	.26
04/20/72	4.9	7.4	3	236	0.29	23

PANTHER CREEK UPSTREAM OF GREENWOOD BREAKER
AND CULM SEEPS

Sample Station No. 24

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	4.6	76	0	2200	1.1	6.16
01/11/71	5.1	20	0	470	0.6	2.25
03/10/71	4.4	94	0	440	0	3.0
04/13/71	4.7	22	0	1300	0	11.0
05/11/71	4.4	36	0	1600	0	15.5
06/15/71	4.9	6	0	210	0	5.5
07/20/71	4.3	20	0	1100	0	23
08/17/71	4.6	40	0	780	0	4
09/23/71	4.3	50	0	470	0.5	2.5
10/15/71	6.0	0	2	540	0	2.6
11/23/71	4.6	20	0	540	0.8	18
12/16/71	4.3	64	0	350	0.1	3.5
01/26/72	4.9	20	0	375	3.75	7.0
02/23/72	6.1	0	14	150	0.1	7.5
03/28/72	4.5	66	0	430	.06	.2
04/20/72	5.4	22	5	400	0.12	8.8

GREENWOOD BREAKER DISCHARGE

Sample Station No. 25

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	4.0	48	0	155	0.6	3.5
01/11/71	4.2	16	0	120	0.1	4.5
02/25/71	4.2	70	0	300	0	5.0
03/10/71	5.0	2	0	160	0	6.7
04/13/71	4.7	6	0	180	0	26
05/11/71	4.4	6	0	70	0	8.5
06/15/71	5.2	0	14	220	0	4.5
07/20/71	5.0	0	0	60	0	2.9
08/17/71	4.0	24	0	140	0	4.5
09/23/71	4.3	50	0	300	0.1	14
10/15/71	4.0	32	0	105	3.6	6.5
11/23/71	4.2	16	0	110	0.5	38.5
12/16/71	3.8	54	0	160	0.1	4.0
01/26/72	4.0	8	0	120	0.1	55
02/23/72	3.5	36	0	210	0.1	50
03/28/72	4.3	36	0	860	0.1	.23
04/20/72	4.7	10	1	54	0.12	3.6
05/03/72	4.4	12	0	190	6.0	46.6

PANTHER CREEK NEAR MOUTH

Sample Station No. 26

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	4.3	100	0	520	0	3.86
01/11/71	4.2	64	0	220	0.1	5.5
02/25/71	4.0	44	0	220	0	4.0
03/10/71	4.3	78	0	750	0.5	27.5
04/13/71	4.6	40	0	700	0	16
05/11/71	3.9	48	0	750	0	12
06/15/71	4.6	20	0	470	0	5.5
07/20/71	3.9	50	0	135	0	23
08/17/71	4.1	62	0	780	0	9
09/23/71	4.2	76	0	600	0.1	13
10/15/71	4.4	48	0	310	0.7	11.5
11/23/71	4.2	48	0	370	0.8	25.0
12/16/71	4.0	90	0	310	0.1	3.8
01/26/72	4.2	28	0	350	0.1	22.5
02/23/72	4.1	20	0	155	0.1	27.5
03/28/72	4.4	56	0	255	.16	.32
04/20/72	4.8	20	2	275	0.48	8.0

WABASH CREEK NEAR HEADWATERS

Sample Station No. 27

<u>Sampling Date</u>	pH	Acidity <u>mg/l</u>	Alkalinity <u>mg/l</u>	Sulfates <u>mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	5.7	0	0	32	0	0.5
01/11/71	4.2	24	0	48	0.1	3.0
02/25/71	5.6	0	6	24	0	0.1
03/10/71	5.0	10	0	48	0	1.55
04/13/71	6.2	0	0	22	0	0.1
05/11/71	6.1	0	2	24	0	0.6
06/15/71	6.5	0	20	24	0	6.0
07/20/71	6.3	6	0	38	0	0.3
08/17/71	6.5	0	14	30	0	1.5
09/23/71	6.4	0	10	18	0	0.1
10/15/71	6.4	0	12	38	0.2	4.1
11/23/71	6.3	0	16	28	0	1.3
12/16/71	6.0	0	10	18	0	0.2
01/26/72	5.8	0	6	22	0	1.2
02/23/72	5.5	0	4	30	0.1	2.8
03/28/72	6.0	7	5	20	.18	.2
04/20/72	5.8	2.5	8	31	0.08	6.52

REEVESDALE #2 DRIFT DISCHARGE

Sample Station No. 28

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.5	68	0	160	0	2.1
01/11/71	3.4	60	0	110	0.1	2.0
02/25/71	3.4	64	0	140	0	0.5
03/10/71	4.4	48	0	140	0	1.2
04/13/71	3.0	60	0	160	0	0.1
05/11/71	3.5	72	0	140	0	3.0
06/15/71	3.9	48	0	160	0	0.7
07/20/71	3.5	40	0	150	0	2.9
08/17/71	3.7	156	0	135	0.5	2.1
09/23/71	3.7	168	0	135	0	1.4
10/15/71	3.7	48	0	220	0.2	4.4
11/23/71	3.4	40	0	140	0.2	3.5
12/16/71	3.1	48	0	70	0	0.8
01/26/72	3.0	36	0	140	0	0.7
02/23/72	3.0	32	0	135	0	1.2
03/28/72	3.6	58	0	136	0.1	0.27
04/20/72	3.7	47	0	200	0.20	4.12
05/03/72	3.6	62	0	115	0.10	3.4

WABASH CREEK DOWNSTREAM OF REEVES DALE #2 DISCHARGE

Sample Station No. 29

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.6	60	0	150	0	2.46
01/11/71	3.5	40	0	105	0.1	2.66
02/25/71	3.5	68	0	130	0	2.5
03/10/71	3.7	60	0	105	0	0.4
04/13/71	3.6	40	0	120	0	0.6
05/11/71	3.6	44	0	105	0	4.1
06/15/71	4.0	36	0	130	0	2.1
07/20/71	3.8	32	0	95	0	3.5
08/17/71	3.7	46	0	70	0	2.8
09/23/71	3.9	140	0	135	0	1.3
10/15/71	3.5	36	0	105	0.3	6.5
12/16/71	3.2	32	0	60	0.2	4.8
03/28/72	3.6	52	0	108	.18	.26
04/20/72	4.0	25	0	136	0.08	0.88

REEVESDALE #1 DRIFT DISCHARGE*

Sample Station No. 30

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
10/23/71	3.3	40	0	310	0.6	275
11/23/71	3.0	90	0	220	0.5	6.5
12/16/71	3.0	52	0	95	0.3	5.0
01/26/72	2.7	36	0	300	0.1	11.0
02/23/72	2.5	56	0	350	0	1.4
03/28/72	3.4	60	0	256	.27	.32
04/20/72	3.7	49	0	250	.06	6.6
05/03/72	3.4	38	0	195	0.03	17.7

* Samples prior to 3/28/72 collected at base of hill; thereafter collected at source.

NEWKIRK DRAINAGE TUNNEL DISCHARGE*

Sample Station No. 31

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/07/70	3.5	40	0	180	0	1.3
01/11/71	3.5	34	0	200	0.1	2.5
02/25/71	3.6	26	0	140	0	0.67
03/10/71	3.8	28	0	140	0	0.25
04/13/71	3.8	28	0	160	0	0.7
05/11/71	3.6	36	0	180	0	0.7
06/15/71	3.9	30	0	140	0	0.5
07/20/71	3.6	36	0	110	0	0.4
08/17/71	3.7	30	0	190	0	1.4
09/23/71	3.8	32	0	170	0	1.5
10/15/71	3.5	36	0	190	0	0.5
10/23/71	4.8	16	0	210	6.5	6.0
11/23/71	3.6	10	0	170	0	0.4
12/16/71	3.5	20	0	120	0	0.3
01/26/72	3.1	40	0	100	0	0.4
02/23/72	3.1	20	0	190	0	0.5
03/28/72	3.7	34	0	148	.18	.24
04/20/72	3.9	45	0	236	0.10	13.5
05/03/72	3.8	42	0	160	0.16	6.7

* Samples prior to 3/28/72 collected at highway culvert under Route 209; thereafter collected at source.

NEWKIRK MINE DISCHARGE

Sample Station No. 32

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
12/08/70	3.0	200	0	450	0	1.0
01/11/71	2.9	180	0	475	0.1	8.5
02/25/71	2.9	450	0	500	0	5.0
03/10/71	3.1	340	0	700	0	5.5
04/13/71	3.1	300	0	400	0	9.0
05/11/71	3.0	240	0	500	0	11.5
06/15/71	3.3	220	0	500	0.1	8.0
07/20/71	3.0	180	0	475	0	47.5
08/17/71	3.1	220	0	700	0.7	14.0
09/23/71	3.1	260	0	700	0.7	10.0
10/15/71	3.0	240	0	200	1.5	6.7
11/23/71	208	150	0	550	0.7	11.0
12/16/71	2.6	180	0	200	1.4	8.5
01/26/72	2.3	200	0	375	0.6	9.0
02/23/72	3.2	210	0	500	0.5	7.0
03/28/72	3.0	197	0	270	1.3	2.26
04/20/72	3.2	207	0	300	0.08	11.8
05/03/72	3.1	170	0	240	.38	5.2

WABASH CREEK NEAR MOUTH

Sample Station No. 33

<u>Sampling Date</u>	pH	<u>Acidity mg/l</u>	<u>Alkalinity mg/l</u>	<u>Sulfates mg/l</u>	<u>Iron, mg/l</u>	
					<u>Ferrous</u>	<u>Total</u>
01/11/71	3.2	150	0	200	0.1	12.5
03/10/71	3.5	192	0	220	0	2.05
04/13/71	3.4	118	0	210	0	1.9
05/11/71	3.3	130	0	400	0	4.5
06/15/71	3.6	92	0	210	0.6	3.25
07/20/71	3.3	150	0	220	0	1.5
08/17/71	3.4	132	0	290	0.5	4.0
09/23/71	3.5	112	0	320	0.4	1.8
10/15/71	3.2	100	0	350	0	1.1
11/23/71	3.4	96	0	270	0.3	5.5
12/16/71	2.9	100	0	100	0	1.8
01/26/72	2.7	104	0	300	0.1	2.25
02/23/72	2.6	90	0	200	0.1	1.8
03/28/72	3.4	49	0	236	0.4	0.45
04/20/72	3.7	84	0	186	0.16	4.8