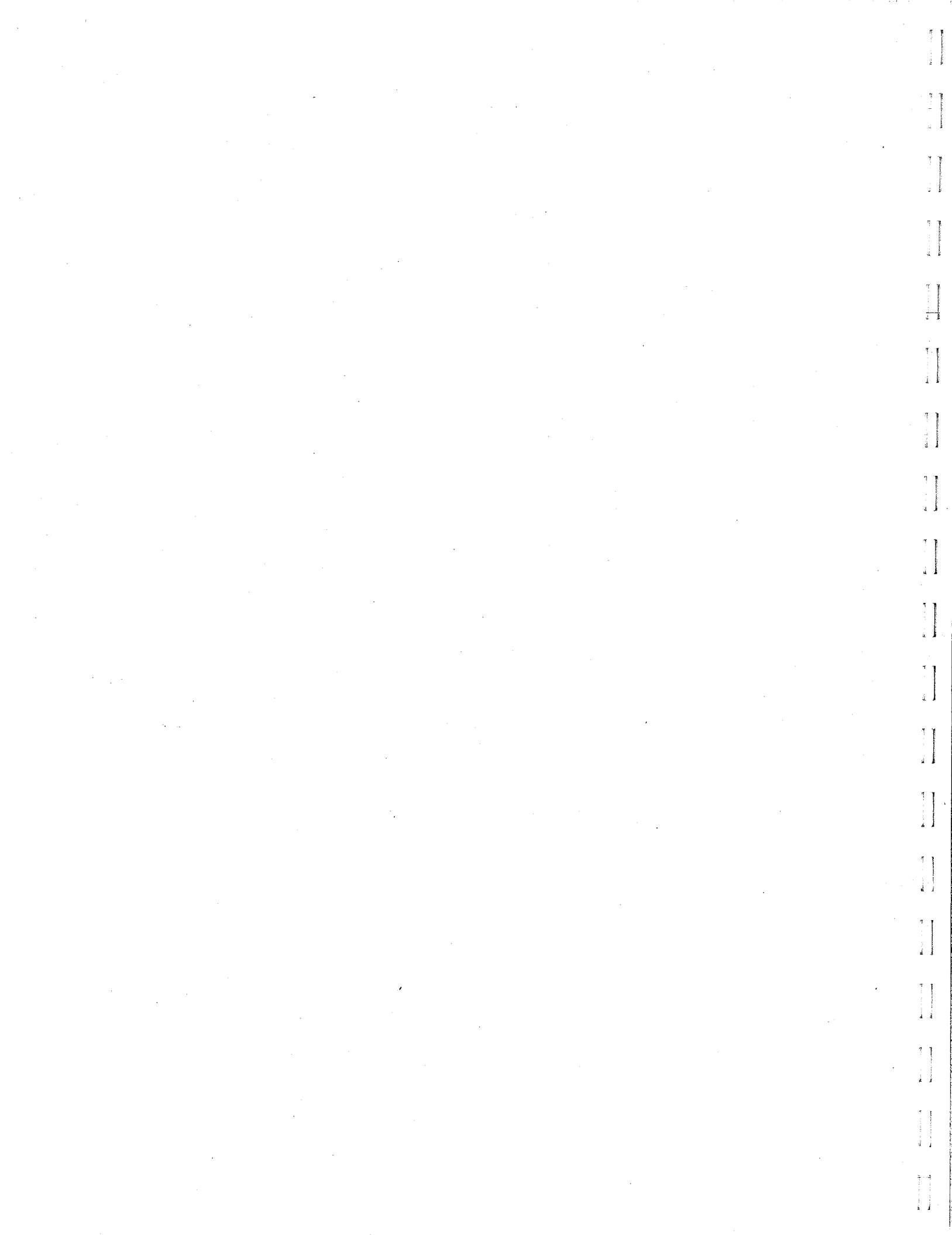


APPENDIX A
CHEMICAL ANALYSIS AND FLOW DATA
SOURCE SAMPLING

*Denotes questionable chemical analysis on the following pages,
not included in data averaging.



TOBY CREEK WATERSHED WEIR NUMBER TY-1A Intermittent small stream west of Crown. (TY-1 Eliminated)

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
01-17-74	4	3.6	110	0	2.4	135	0	5.3	0.11	6.5
02-19-74	22	3.7	36	0	0	150	0	9.5	0	40
03-25-74	22	4.0	76	0	0.63	185	0	20	0.20	49
05-01-74	193	3.8	36	0	0.60	23	0	83	1.4	53
05-23-74	533	3.4	60	0	3.5	150	0	384	22	959
06-25-74	12	3.4	132	0	1.6	300	0	19	0.23	43
*07-22-74	2	2.9	600	0	7.6	225	0	14	0.18	5.4
08-26-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	4	3.4	36	0	0	23	0	5.3	0	6.5
MAX.	533	4.0	132	0	3.5	300	0	384	22	959
AVG.	131						0	87	4.0	192

TOBY CREEK WATERSHED WEIR NUMBER TY-2 Intermittent small stream west of Crown.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
10-25-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
*11-28-73	694	4.6	470	0	79	490	0	3914	658	4081
12-19-73	12	2.8	364	0	11	255	0	52	1.6	37
01-17-74	397	3.0	188	0	17	240	0	896	83	1143
02-21-74	22	3.1	182	0	3.8	150	0	48	1.0	40
03-26-74	42	3.3	130	0	5.6	165	0	66	2.8	83
05-01-74	397	3.2	120	0	4.6	400	0	572	22	1906
05-23-74	1094	3.1	142	0	12	100	0	1864	159	1313
06/25/74	22	2.8	128	0	0.70	250	0	34	0.19	66
*07/22/74	6	2.6	400	0	2.1	150	0	29	0.15	11
08/26/74	2	3.4	122	0	5.5	225	0	2.9	0.3	5.4
MIN.	2	2.8	120	0	0.70	100	0	2.9	0.15	5.4
MAX.	1094	3.4	364	0	17	400	0	1864	159	1906
AVG.	248						0	442	34	574

TOBY CREEK WATERSHED WEIR NUMBER TY-3 Deep mine and strip mine on unnamed tributary to Toby Creek southwest of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	NO SAMPLE AVAILABLE - NOT TAKEN					0	0	0	0	0
10-25-73	6	3.1	370	0	12	930	0	27	0.86	67
11-28-73	12	4.8	340	0	13	630	0	49	1.9	91
12-19-73	2	3.0	346	0	14	890	0	8.3	0.34	21
01-17-74	17	3.1	300	0	7.9	575	0	61	1.6	117
02-21-74	17	3.1	268	0	2.0	425	0	55	0.41	87
04-02-74	12	3.0	180	0	7.6	450	0	26	1.1	65
05-02-74	22	3.2	200	0	1.2	200	0	53	0.32	53
05-23-74	22	3.1	212	0	1.5	400	0	56	0.41	106
06-25-74	2	3.0	246	0	0.60	455	0	5.9	0.01	11
*07-22-74	2	2.5	800	0	1.1	475	0	19	0.10	11
08-26-74	2	3.6	230	0	1.1	550	0	5.5	0.03	13
MIN.	2	3.0	180	0	0.60	200	0	5.5	0.01	11
MAX.	22	4.8	370	0	14	930	0	61	1.9	117
AVG.	11						0	35	0.70	63

TOBY CREEK WATERSHED WEIR NUMBER TY-4 Intermittent small stream north of Cooks Corner.

DATE	GPM	pH	PPM				PPD				
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄	
10-01-73	4	4.4	60	0	0.80	290	0	2.9	0.04	14	
10-25-73	1	4.2	42	0	0.20	310	0	0.50	0.002	3.7	
11-28-73	397	5.2	76	0	0.60	140	0	362	2.8	667	
12-19-73	50	4.0	20	0	0.74	85	0	12	0.40	51	
01-17-74	397	4.1	68	0	0.59	165	0	324	2.8	786	
02-21-74	42	2.8	148	0	0.74	225	0	75	0.37	113	
03-00-74	MOVED WEIR						NOW 4A & 4B & 4C				
03-26-74	26						0.30	31	0.40	66	
05-01-74	277						0	329	3.6	537	
05-23-74	354						0	493	13	658	
06-25-74	7						0	6.9	0.30	16	
07-22-74	16						0	14	0.10	52	
08-26-74	2						0	1.3	0.10	5.4	
09-30-74	3						0	1.7	0.20	13	
			TOTALS FOR 4A, 4B, 4C								
MIN.	1	2.8	20	0	0.20	85	0	0.50	0.002	3.7	
MAX.	397	5.2	148	0	0.74	310	0	362	2.8	786	
AVG.	149						0	129	1.1	272	

TOBY CREEK WATERSHED WEIR NUMBER TY-4A Spring and strip mine on Barlett Run north of Cooks Corner.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	6	3.7	144	0	0.44	350	0	10	0.03	25
03-26-74	4	3.9	170	0	1.0	275	0	8.2	0.05	13
05-01-74	34	3.9	84	0	0.90	275	0	34	0.38	112
05-23-74	70	4.0	60	0	1.2	175	0	50	1.0	147
06-25-74	2	3.7	110	0	0.50	360	0	2.6	0.01	8.6
07-22-74	6	3.1	140	0	1.2	350	0	10	0.09	25
*08-26-74	2	4.6	50	0	23	250	0	1.2	0.50	6.0
09-30-74	2	3.9	64	0	0.60	425	0	1.5	0.01	10
MIN.	2	3.1	64	0	0.44	175	0	1.5	0.01	8.6
MAX.	70	4.0	170	0	1.2	425	0	50	1.0	147
AVG.	18						0	17	0.22	49

TOBY CREEK WATERSHED WEIR NUMBER TY-4B Spring and strip mine on Barlett Run north of Cooks Corner.

*02-19-74	34	3.4	200	0	0.74	200	0	81	0.30	82
*03-26-74	6	4.7	16	4	0.42	80	0.29	1.2	0.03	5.8
05-01-74	50	4.2	12	0	0.10	225	0	7.2	0.06	135
*05-23-74	123	4.1	10	0	0.20	41	0	15	0.30	61
06-25-74	1	4.1	62	0	2.3	255	0	0.70	0.03	3.1
07-22-74	1	3.9	50	0	3.0	225	0	0.60	0.04	2.7
*08-26-74	1	5.3	48	2	12	225	0.02	0.60	0.30	2.7
09-30-74	1	4.4	18	0	1.8	275	0	0.20	0.02	3.3
MIN.	1	3.9	12	0	0.10	225	0	0.20	0.02	2.7
MAX.	50	4.4	62	0	3.0	275	0	7.2	0.06	135
AVG.	13						0	2.2	0.04	36

TOBY CREEK WATERSHED WEIR NUMBER TY-4C Strip mine and spring on Barlett Run north of Cooks Corner

DATE	GPM	pH	PPM				PPD				
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄	
02-19-74			NO SAMPLE AVAILABLE - NOT TAKEN				0	0	0	0	0
03-26-74	22	3.6	88	0	1.0	200	0	23	0.28	53	
05-01-74	193	3.6	124	0	1.4	125	0	287	3.2	290	
05-23-74	284	3.9	130	0	3.4	150	0	443	12	511	
06-25-74	4	3.0	76	0	0.40	80	0	3.6	0.02	3.8	
07-22-74	9	3.2	32	0	0.40	225	0	3.5	0.04	25	
08-26-74	2	4.7	56	0	3.3	225	0	1.3	0.10	5.4	
MIN.	2	3.0	32	0	0.40	80	0	1.3	0.02	3.8	
MAX.	284	4.7	130	0	3.4	225	0	443	12	511	
AVG.	86						0	127	2.6	148	

TOBY CREEK WATERSHED WEIR NUMBER TY-5 Gas well on Toby Creek southeast of Leeper.

10-01-73	6	2.8	470	0	160	1300	0	34	12	94	
10-25-73	4	2.7	460	0	110	1200	0	22	5.3	58	
11-28-73	12	4.5	380	0	140	1100	0	55	20	158	
12-00-73			NO SAMPLE AVAILABLE - FROZEN				0	0	0	0	0
01-17-74	2	2.8	100	0	77	1025	0	2.4	1.8	25	
02-21-74	6	2.6	44	0	243	800	0	3.2	18	58	
03-26-74	6	2.7	300	0	204	600	0	22	15	43	
05-08-74	6	2.7	340	0	141	725	0	25	10	52	
05-24-74	12	2.7	350	0	145	1175	0	50	21	169	
06-25-74	22	2.7	560	0	124	1000	0	148	33	264	
07-22-74	17	2.4	500	0	99	1100	0	102	20	224	
08-27-74	17	3.0	500	0	93	1075	0	102	19	219	
MIN.	2	2.4	44	0	77	600	0	2.4	1.8	25	
MAX.	22	4.5	560	0	243	1300	0	148	33	264	
AVG.	10						0	51	16	124	

TOBY CREEK WATERSHED WEIR NUMBER TY-6 Gas well on Toby Creek southeast of Leeper

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-00-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
10-25-73	2	2.7	430	0	98	1200	0	10	2.4	29
11-28-73	2	4.6	410	0	130	1000	0	10	3.1	24
12-19-73			NO SAMPLE AVAILABLE - FROZEN	0	0	0	0	0	0	0
01-17-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
02-21-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
03-26-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
05-08-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
05-24-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
06-25-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
07-22-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
08-26-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
MIN.	2	2.7	410	0	98	1000	0	10	2.4	24
MAX.	2	4.6	430	0	130	1200	0	10	3.1	29
AVG.	2						0	10	2.8	27

TOBY CREEK WATERSHED WEIR NUMBER TY-7 Gas well on Toby Creek southeast of Leeper.

10-01-73	6	2.8	440	0	160	1100	0	32	12	79
10-25-73	6	2.7	360	0	85	1100	0	26	6.1	79
11-28-73	12	4.6	360	0	150	1000	0	52	22	144
12-19-73			NO SAMPLE AVAILABLE - FROZEN	0	0	0	0	0	0	0
01-17-74	34	2.7	200	0	62	775	0	82	25	316
*02-21-74	34	2.4	74	0	104	575	0	30	42	235
03-26-74	28	2.8	100	0	55	275	0	34	18	92
05-08-74	50	2.9	180	0	69	275	0	108	41	165
05-24-74	70	3.0	90	0	28	200	0	76	23	168
06-25-74	17	2.7	240	0	73	575	0	49	15	117
07-22-74	12	2.3	700	0	72	900	0	101	10	130
08-27-74	12	3.0	400	0	76	850	0	58	11	122
MIN.	6	2.3	90	0	28	200	0	26	6.1	79
MAX.	70	4.6	700	0	160	1100	0	108	41	316
AVG.	25						0	51	18	141

TOBY CREEK WATERSHED WEIR NUMBER TY-8 Intermittent small stream southeast of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	12	4.4	120	0	1.3	270	0	17	0.20	39
10-25-73	12	4.1	120	0	0.30	260	0	17	0.04	37
11-28-73	70	5.1	96	0	0.30	270	0	81	0.20	227
12-19-73	70	3.8	104	0	0.15	200	0	87	0.10	168
01-17-74	193	4.0	84	0	0.15	265	0	195	0.40	614
02-21-74	70	3.6	164	0	0.29	850	0	138	0.20	714
03-26-74	123	3.8	88	0	0.67	260	0	130	1.0	384
05-08-74	397	4.0	98	0	0.10	175	0	467	0.50	834
05-24-74	397	3.8	80	0	0.30	175	0	381	1.4	834
06-25-74	50	3.7	190	0	0.30	360	0	114	0.20	216
07-22-74	34	3.5	166	0	0.50	225	0	68	0.20	92
08-27-74	2	4.1	96	0	0.40	275	0	2.3	0.009	6.6
MIN.	2	3.5	80	0	0.10	175	0	2.3	0.009	6.6
MAX.	397	5.1	190	0	1.3	850	0	467	1.4	834
AVG.	119						0	141	0.37	347

TOBY CREEK WATERSHED WEIR NUMBER TY-9 Spring on Toby Creek southeast of Leeper.

10-01-73	6	4.2	110	0	0.10	270	0	7.9	0.007	19
10-25-73	2	4.3	130	0	0.20	270	0	3.1	0.004	6.5
11-28-73	28	5.4	46	0	0.20	100	0	16	0.10	34
12-19-73	34	4.2	54	0	0.29	70	0	22	0.10	29
01-17-74	28	4.3	30	2	0.15	70	0.67	10	0.10	24
*02-21-74	28	4.1	720	0	0	150	0	242	0	50
03-26-74	42	4.1	24	0	0	65	0	12	0	33
05-08-74	34	4.2	32	0	0.10	150	0	13	0.04	61
05-24-74	34	4.1	30	0	0.10	100	0	12	0.04	41
06-25-74	17	4.1	42	0	0.20	100	0	8.6	0.04	20
07-22-74	22	3.8	58	0	0.20	225	0	15	0.10	59
08-27-74	12	4.5	84	0	0.70	225	0	12	0.10	32
MIN.	2	3.8	24	0	0	65	0	3.1	0	6.5
MAX.	42	5.4	130	2	0.70	270	0.67	22	0.10	61
AVG.	24						0.06	12	0.06	33

TOBY CREEK WATERSHED WEIR NUMBER TY-10 Strip mine on Henry Run north of Cooks Corner.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
10-25-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
11-28-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
12-19-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
01-21-74	6190	4.0	42	0	0.44	110	0	3120	33	8171
02-19-74	123	3.6	92	0	0.29	150	0	136	0.40	221
03-26-74	50	3.8	66	0	0.67	235	0	40	0.40	141
05-01-74	694	4.0	58	0	No Small Bottle	150	0	483	No Small Bottle	1249
05-23-74	1094	3.8	34	0	0.30	225	0	446	3.9	2954
06-26-74	156	3.3	110	0	1.4	250	0	206	2.6	468
07-26-74	50	3.4	144	0	2.0	350	0	86	1.2	210
09-05-74	123	2.8	60	0	0.40	225	0	89	0.60	332
MIN.	50	2.8	3.4	0	0.29	110	0	40	0.40	141
MAX.	6190	4.0	144	0	2.0	350	0	3120	33	8171
AVG.	1060						0	576	6.0	1718

TOBY CREEK WATERSHED WEIR NUMBER TY-11 Deep mine (stripped) on Henry Run northwest of Cooks Corners.

10-01-73	4	2.9	960	0	250	3700	0	46	12	178
10-25-73	1	2.8	1000	0	220	4300	0	12	2.6	52
11-28-73	6	4.6	560	0	84	1700	0	40	6.0	122
12-19-73			NO SAMPLE AVAILABLE - FROZEN	0	0	0	0	0	0	0
01-17-74	2	2.8	500	0	64	1600	0	12	1.5	38
02-19-74	17	2.6	980	0	144	2450	0	200	30	500
03-26-74	9	2.9	300	0	53	1600	0	32	5.7	173
05-01-74	12	3.0	544	0	28	1925	0	78	4.0	277
05-23-74	28	2.9	400	0	24	1400	0	134	8.2	470
06-26-74	28	3.2	872	0	43	2125	0	293	14	714
07-26-74	17	2.7	700	0	65	2500	0	143	15	510
09-05-74	22	3.0	1000	0	82	3125	0	264	22	825
MIN.	1	2.6	300	0	24	1400	0	12	1.5	38
MAX.	28	4.6	1000	0	250	4300	0	264	30	825
AVG.	13						0	114	11	351

TOBY CREEK WATERSHED WEIR NUMBER TY-12 Pond overflow on Henry Run north of Cooks Corner.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	2	3.8	640	0	2.9	2200	0	15	0.10	53
10-25-73	2	3.7	490	0	2.4	2500	0	12	0.10	60
11-28-73	9	4.9	350	0	0.80	1200	0	38	0.10	130
12-19-73	6	3.6	410	0	1.2	1105	0	30	0.10	80
01-17-74	6	3.7	260	0	1.1	825	0	19	0.10	59
02-19-74	4	3.3	266	0	0.44	1100	0	13	0.02	53
03-26-74	4	3.7	150	0	3.3	400	0	7.2	0.20	19
05-01-74	6	3.8	98	0	0.30	275	0	7.1	0.02	20
05-23-74	6	3.7	164	0	0.40	350	0	12	0.03	25
06-26-74	2	3.8	340	0	1.7	350	0	8.2	0.04	8.4
07-22-74	2	3.1	304	0	1.2	1075	0	7.3	0.03	26
08-26-74	2	3.9	284	0	1.5	1525	0	6.8	0.04	37
MIN.	2	3.1	98	0	0.30	275	0	6.8	0.02	8.4
MAX.	9	4.9	640	0	3.3	2500	0	38	0.20	130
AVG.	4.2						0	15	0.07	48

TOBY CREEK WATERSHED WEIR NUMBER TY-13 Strip mine on Henry Run north of Cooks Corner.

10-00-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-28-73	22	4.8	90	0	1.9	170	0	24	0.50	45
12-19-73	4	3.4	158	0	1.1	325	0	7.6	0.10	16
01-17-74	12	3.3	122	0	3.2	225	0	18	0.50	32
02-19-74	17	2.9	240	0	6.7	425	0	49	1.4	87
03-26-74	12	3.3	156	0	3.6	250	0	23	0.50	36
*05-01-74	50	3.4	92	0	0.50	225	0	55	0.30	135
05-23-74	397	3.4	80	0	2.0	150	0	381	9.5	715
06-26-74	174	3.4	254	0	9.1	300	0	530	19	626
*07-22-74	1	2.9	900	0	2.1	525	0	11	0.03	6.3
08-26-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
MIN.	4	2.9	80	0	1.1	150	0	7.6	0.10	16
MAX.	397	4.8	254	0	9.1	425	0	530	19	715
AVG.	91						0	147	4.5	222

TOBY CREEK WATERSHED WEIR NUMBER TY-14 Intermittent small stream northwest of Cooks Corner.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	2	3.6	45	0	4.8	240	0	1.1	0.10	5.8
10-25-73	2	3.7	42	0	0.80	160	0	1.0	0.02	3.8
11-29-73	22	3.6	90	0	0.59	280	0	24	0.20	74
12-19-73	12	3.9	82	0	0.89	265	0	12	0.10	38
01-17-74	34	4.0	54	0	0.44	265	0	22	0.20	108
02-19-74	12	3.8	102	0	0.74	200	0	15	0.10	29
03-26-74	22	3.9	110	0	0.67	250	0	29	0.20	66
05-01-74	70	3.8	64	0	0.40	175	0	54	0.30	147
05-29-74	42	3.7	154	0	1.1	600	0	78	0.60	302
06-26-74	22	3.9	84	0	6.1	200	0	22	1.6	53
07-22-74	12	3.3	104	0	1.8	350	0	15	0.30	50
*08-26-74	6	4.7	56	0	3.3	225	0	4.0	0.20	16
09-30-74	22	3.4	58	0	1.2	325	0	15	0.30	86
MIN.	2	3.3	42	0	0.40	160	0	1.0	0.02	3.8
MAX.	70	4.0	154	0	6.1	600	0	78	1.6	302
AVG.	23						0	24	0.34	80

TOBY CREEK WATERSHED WEIR NUMBER TY-15 Strip mine on Henry Run west of Cooks Corners.

10-01-73	NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0	0	0
10-25-73	6	3.2	270	0	11	2100	0	19	0.80	151
11-29-73	22	2.8	600	0	41	1700	0	158	11	449
12-19-73	NO SAMPLE AVAILABLE - FROZEN	0	0	0	0	0	0	0	0	0
01-17-74	17	3.2	224	0	31	1325	0	46	6.2	270
02-19-74	12	3.2	204	0	18	300	0	29	2.6	43
03-26-74	12	3.2	160	0	10	950	0	23	1.5	137
05-01-74	22	3.2	184	0	6.8	1475	0	49	1.8	389
05-29-74	12	3.2	234	0	9.9	2050	0	34	1.4	295
06-26-74	17	3.6	188	0	7.2	1450	0	38	1.5	296
*07-22-74	17	3.0	1100	0	1.2	1700	0	224	0.20	347
*08-29-74	12	4.5	140	0	9.8	1550	0	20	1.4	223
09-30-74	34	3.2	164	0	8.8	2125	0	67	3.6	867
MIN.	6	2.8	160	0	6.8	300	0	19	0.80	43
MAX.	34	3.6	600	0	41	2125	0	158	11	867
AVG.	17						0	51	3.4	322

TOBY CREEK WATERSHED WEIR NUMBER TY-16 Spring on Toby Creek southwest of Cooks Corner

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	12	3.0	150	0	16	650	0	22	2.3	94
10-25-73	12	3.0	140	0	19	700	0	20	2.7	101
11-29-73	42	3.0	92	0	11	325	0	46	5.6	164
12-19-73	42	3.0	14	0	9.4	260	0	7.1	4.8	131
01-17-74	34	3.3	54	0	7.4	200	0	22	3.0	82
02-19-74	22	3.2	66	0	9.2	250	0	17	2.4	66
04-04-74	82	3.4	24	0	8.9	90	0	24	8.8	89
05-01-74	94	3.2	44	0	8.2	200	0	50	9.2	226
05-24-74	42	3.2	40	0	3.5	175	0	20	1.8	88
06-25-74	22	3.0	94	0	8.0	425	0	25	2.1	112
*07-24-74	22	2.9	400	0	7.9	400	0	106	2.1	106
*09-06-74	123	3.3	60	0	6.8	3500	0	89	10	5166
MIN.	12	3.0	14	0	3.5	90	0	7.1	1.8	66
MAX.	94	3.4	150	0	19	700	0	50	9.2	226
AVG.	40						0	25	4.3	115

TOBY CREEK WATERSHED WEIR NUMBER TY-17 Strip mine on unnamed tributary to Toby Creek southwest of Cooks Corners.

10-01-73	NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0	0	0
10-25-73	NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0	0	0
11-29-73	NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0	0	0
12-19-73	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
01-17-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
02-19-74	2	3.0	500	0	27	750	0	12	0.60	18
03-26-74	12	2.9	400	0	19	925	0	58	2.7	133
05-01-74	17	2.9	540	0	11	1575	0	110	2.2	321
05-24-74	2	2.9	580	0	15	1325	0	14	0.40	32
06-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
07-24-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
08-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
MIN.	2	2.9	400	0	11	750	0	12	0.40	18
MAX.	17	3.0	580	0	27	1575	0	110	2.7	321
AVG.	8.2						0	49	1.5	126

TOBY CREEK WATERSHED WEIR NUMBER NO. TY-18 Strip mine on unnamed tributary to Toby Creek southwest of Cooks Corners.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	1	3.1	1000	0	30	3500	0	12	0.40	42
10-25-73	1	3.1	690	0	32	3600	0	8.3	0.40	43
*11-29-73	2	3.0	52	0	15	2125	0	1.2	0.40	51
12-18-73	NO SAMPLE AVAILABLE - FROZEN									
01-17-74	4	3.2	502	0	9.4	2325	0	24	0.40	112
02-19-74	2	3.4	480	0	10	1300	0	12	0.20	31
03-26-74	6	3.2	524	0	6.0	2225	0	38	0.40	160
05-01-74	4	3.2	574	0	4.1	2750	0	28	0.20	132
05-24-74	6	3.0	840	0	5.8	2275	0	61	0.40	164
*06-25-74	2	3.0	1230	0	19	450	0	30	0.50	11
07-22-74	1	2.8	1100	0	13	2875	0	13	0.20	35
08-26-74	1	4.3	488	0	22	3375	0	5.9	0.30	41
MIN.	1	2.8	480	0	4.1	1300	0	5.9	0.20	31
MAX.	6	4.3	1100	0	32	3600	0	61	0.40	164
AVG.	2.9						0	22	0.32	84

TOBY CREEK WATERSHED WEIR NUMBER TY-19 Gas well on Toby Creek southwest of Cooks Corners

10-01-73	NO SAMPLE AVAILABLE - NOT TAKEN									
10-25-73	NO SAMPLE AVAILABLE - DRY									
11-29-73	NO SAMPLE AVAILABLE - DRY									
12-19-73	NO SAMPLE AVAILABLE - DRY									
01-17-74	NO SAMPLE AVAILABLE - FROZEN									
02-19-74	22	3.1	206	0	161	475	0	54	43	125
03-26-74	28 LARGE BOTTLE BROKEN IN TRANSIT									
*05-02-74	34	3.0	160	0	7.9	850	0	65	3.2	347
06-03-74	34	3.6	160	0	110	1075	0	65	45	439
06-25-74	28	3.1	262	0	107	1200	0	88	36	403
07-24-74	28	2.7	300	0	89	850	0	101	30	286
09-06-74	22	3.1	288	0	75	1450	0	76	20	383
MIN.	22	2.7	160	0	75	475	0	54	20	125
MAX.	34	3.6	288	0	198	1450	0	101	67	439
AVG.	27						0	77	40	327

TOBY CREEK WATERSHED WEIR NUMBER TY-20 Gas well on Toby Creek southwest of Cooks Corners.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	NO SAMPLE AVAILABLE - NOT TAKEN									
10-25-73	NO SAMPLE AVAILABLE - DRY									
11-29-73	NO SAMPLE AVAILABLE - DRY									
12-19-73	NO SAMPLE AVAILABLE - DRY									
01-17-74	NO SAMPLE AVAILABLE - DRY									
02-19-74	12	2.7	234	0	208	300	0	34	30	43
03-26-74	17	3.0	240	0	228	850	0	49	46	173
*05-02-74	12	2.9	220	0	21	975	0	32	3.0	140
06-03-74	4	3.2	232	0	137	950	0	11	6.6	46
06-25-74	22	3.2	264	0	114	1050	0	70	30	277
07-24-74	34	2.9	300	0	195	775	0	122	80	316
09-06-74	12	2.9	700	0	50	950	0	101	7.2	137
MIN.	4	2.7	232	0	50	300	0	11	6.6	46
MAX.	34	3.2	700	0	228	1050	0	122	80	316
AVG.	17						0	65	33	165

TOBY CREEK WATERSHED WEIR NUMBER TY-21 Strip mine on Wolbert Run south of Leeper Spring.

10-01-73	12	4.7	46	0	0.20	270	0	6.6	0.03	39
*10-25-73	2	4.8	118	0	0.20	140	0	2.8	0.004	43
11-29-73	193	4.2	38	0	0.15	215	0	88	0.40	498
12-19-73	34	4.2	52	0	0.15	245	0	21	0.10	100
01-17-74	70	4.4	54	4	0.29	325	3.4	45	0.20	273
02-19-74	22	3.9	42	0	0.15	250	0	11	0.04	66
03-26-74	82	4.3	26	0	0.89	205	0	26	0.90	202
05-06-74	34	4.5	38	4	0.20	200	1.6	16	0.10	82
05-24-74	34	4.5	36	0	0.10	200	0	15	0.04	82
06-25-74	6	4.5	22	0	0.30	185	0	1.6	0.02	13
07-23-74	12	4.1	70	0	1.0	425	0	10	0.10	61
*08-26-74	6	5.7	42	15	0	325	1.1	3.0	0	23
10-03-74	22	4.4	78	0	0.30	475	0	21	0.10	125
MIN.	6	3.9	22	0	0.10	185	0	1.6	0.02	13
MAX.	193	4.7	78	4	1.0	475	3.4	88	0.9	498
AVG.	47						0.45	24	0.18	140

TOBY CREEK WATERSHED WEIR NUMBER TY-22 Spring on Wolbert Run south of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	12	4.7	60	0	0.20	380	0	8.6	0.03	55
10-25-73	2	4.5	58	0	0.01	370	0	1.4	0.0002	8.9
11-29-73	156	5.0	4	2	0.15	50	3.7	7.5	0.30	94
12-19-73	34	4.6	8	2	0.29	70	0.80	3.3	0.10	29
01-17-74	123	5.1	8	6	0.15	71	8.9	12	0.20	105
02-19-74	42	4.2	18	0	0.89	125	0	9.1	0.40	63
03-26-74	82	5.0	2	2	0	35	2.0	2.0	0	34
05-06-74	22	5.0	8	10	0.20	46	2.6	2.1	0.10	12
05-24-74	22	5.5	8	8	0.10	150	2.1	2.1	0.03	40
06-25-74	9	4.5	40	0	0.20	260	0	4.3	0.02	28
07-23-74	6	4.4	36	0	0.70	275	0	2.6	0.10	20
*08-26-74	6	5.8	40	4	0	225	13.2	2.9	0	16
10-03-74	28	5.0	10	2	0.10	250	0.70	3.4	0.03	84
MIN.	2	4.2	2	0	0	35	0	1.4	0	8.9
MAX.	156	5.5	60	10	0.89	380	8.9	12	0.4	105
AVG.	45						1.7	4.9	0.11	48

TOBY CREEK WATERSHED WEIR NUMBER TY-23 Strip mine on Toby Creek northeast of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	1	2.7	960	0	150	3200	0	12	1.8	38
10-25-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
11-29-73	9	2.7	1100	0	34	1600	0	119	3.7	173
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
01-17-74	4	3.0	430	0	28	1100	0	21	1.4	53
02-19-74	2	3.3	540	0	4.5	2250	0	13	0.10	54
03-26-74	1	3.0	586	0	15	1475	0	7	0.20	18
05-02-74	22	2.9	760	0	43	2350	0	201	11	620
05-24-74	2	2.6	1020	0	296	3500	0	25	7.1	84
06-20-74	2	2.8	1180	0	137	3725	0	28	3.3	89
07-22-74	4	2.6	1200	0	177	2700	0	58	8.5	130
*08-23-74	1	2.4	24	0	173	4750	0	0.30	2.1	57
MIN.	1	2.6	430	0	4.5	1100	0	7.0	0.1	18
MAX.	22	3.3	1200	0	296	3725	0	201	11	620
AVG.	5.2						0	54	4.1	140

TOBY CREEK WATERSHED WEIR NUMBER TY-24 Strip mine on Toby Creek northeast of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	2	3.0	730	0	11	2800	0	18	0.30	67
10-25-73	2	3.1	630	0	9	2700	0	15	0.20	65
11-29-73	9	3.0	684	0	3.6	1675	0	74	0.40	181
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
01-17-74	6	3.2	496	0	4.0	1650	0	36	0.30	119
02-19-74	6	3.1	560	0	17	2500	0	40	1.2	180
03-26-74	6	3.0	590	0	16	1975	0	43	1.2	142
05-02-74	22	3.1	888	0	12	2075	0	234	3.3	548
05-24-74	6	2.8	800	0	25	1900	0	58	1.8	137
06-20-74	12	3.0	834	0	25	2750	0	120	3.5	396
07-22-74	4	2.9	1200	0	16	2275	0	58	0.80	109
08-23-74	1	2.8	1200	0	11	3500	0	14	0.10	42
MIN.	1	2.8	496	0	3.6	1650	0	14	0.10	42
MAX.	22	3.2	1200	0	25	3500	0	234	3.5	548
AVG.	6.9						0	81	1.2	181

TOBY CREEK WATERSHED WEIR NUMBER TY-25 Strip mine on Toby Creek northeast of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	1	4.3	420	0	0.90	2600	0	5.0	0.01	31
10-25-73	2	4.2	340	0	0.10	2500	0	8.2	0.10	60
*11-29-73	6	3.9	32	0	0.44	1800	0	2.3	0.03	130
12-19-73	NO SAMPLE AVAILABLE - BROKEN IN TRANSIT			0	0	0	0	0	0	0
01-17-74	4	4.2	300	0	0.22	1275	0	14	0.01	61
02-19-74	2	3.8	236	0	0	1875	0	5.7	0	45
*03-26-74	17	4.0	176	0	1.8	205	0	36	0.40	42
05-02-74	9	4.0	340	0	0.50	975	0	37	0.10	105
05-24-74	2	4.0	260	0	0.10	925	0	6.2	0.002	22
06-20-74	2	4.1	560	0	1.7	1975	0	13	0.04	47
07-22-74	2	4.0	310	0	1.8	2225	0	7.4	0.04	53
08-23-74	1	3.9	318	0	7.8	3500	0	3.8	0.10	42
MIN.	1	3.8	236	0	0	925	0	3.8	0	22
MAX.	9	4.3	560	0	7.8	3500	0	37	0.10	105
AVG.	2.8						0	11	0.04	52

TOBY CREEK WATERSHED WEIR NUMBER TY-26 Strip mine on Toby Creek northeast of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-01-73	2	4.4	290	0	0.20	2700	0	7.0	0.004	65
10-26-73	2	4.3	340	0	0.20	2600	0	8.2	0.004	62
11-29-73	6	4.0	264	0	0	1825	0	19	0	131
12-19-73	NO SAMPLE AVAILABLE - FROZEN		0	0	0	0	0	0	0	0
01-17-74	6	4.2	220	0	0.44	1625	0	16	0.03	117
02-19-74	4	3.9	214	0	0.15	2500	0	10	0.007	120
03-26-74	6	4.0	318	0	0	1725	0	23	0	124
05-02-74	12	4.0	204	0	0.10	1450	0	29	0.01	209
05-24-74	2	3.9	176	0	0.20	1100	0	4.2	0.004	26
06-20-74	4	4.1	270	0	0.10	2125	0	13	0.004	102
07-22-74	2	4.0	306	0	0.10	2250	0	7.3	0.002	54
08-23-74	1	3.8	202	0	0	3000	0	2.4	0	36
MIN.	1	3.8	176	0	0	1100	0	2.4	0	26
MAX.	12	4.4	340	0	0.44	3000	0	29	0.03	209
AVG.	4.3						0	13	0.005	95

TOBY CREEK WATERSHED WEIR NUMBER TY-27 Strip mine on Toby Creek northeast of Helen Furnace.

10-01-73	12	3.5	760	0	440	4000	0	109	63	576
10-26-73	17	3.3	780	0	400	4100	0	159	82	836
11-29-73	17	3.0	1700	0	296	2450	0	347	60	500
12-19-73	17	3.0	1340	0	105	3475	0	273	22	709
*01-17-74	12	3.9	806	0	103	2750	0	116	15	396
*02-19-74	12	2.8	360	0	568	5625	0	52	82	810
*03-26-74	12	3.9	1120	0	613	3775	0	161	88	544
05-02-74	22	3.1	1240	0	283	3000	0	327	75	792
05-24-74	12	2.8	1220	0	407	3250	0	176	59	468
06-20-74	12	2.9	1320	0	339	4375	0	190	49	630
07-22-74	-9	3.1	820	0	534	2250	0	89	58	243
08-23-74	34	2.9	1200	0	359	4500	0	490	147	1890
MIN.	9	2.8	760	0	105	2250	0	89	22	243
MAX.	34	3.5	1700	0	534	4500	0	490	147	1890
AVG.	17						0	240	68	738

TOBY CREEK WATERSHED WEIR NUMBER TY-28 Strip mine on unnamed tributary to Toby Creek northwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	9	3.3	380	0	4.4	1200	0	41	0.50	130
10-26-73	2	3.4	400	0	3.4	780	0	9.6	0.10	19
11-29-73	NO SAMPLE AVAILABLE - NOT TAKEN		0	0	0	0	0	0	0	0
12-19-73	12	3.3	460	0	1.5	1050	0	66	0.20	151
01-17-74	34	3.5	222	0	1.4	475	0	91	0.60	194
02-19-74	12	3.4	318	0	2.7	1450	0	46	0.40	209
03-26-74	70	3.4	230	0	1.8	400	0	193	1.5	336
05-02-74	50	3.6	272	0	0.80	675	0	163	0.50	405
*05-30-74	17	2.8	1300	0	18	2150	0	265	3.7	439
06-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-22-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	2	3.2	204	0	4.9	225	0	4.9	0.10	5.4
MIN.	2	3.2	204	0	0.80	225	0	4.9	0.10	5.4
MAX.	70	3.6	460	0	4.9	1450	0	193	1.5	405
AVG.	24						0	77	0.49	181

TOBY CREEK WATERSHED WEIR NUMBER TY-29 Spring and strip mine on Toby Creek north of Helen Furnace.

10-02-73	2	3.0	380	0	17	1500	0	9.1	0.40	36
10-26-73	4	3.0	410	0	21	1600	0	20	1.0	77
11-29-73	NO SAMPLE AVAILABLE - NOT TAKEN		0	0	0	0	0	0	0	0
12-19-73	6	2.9	312	0	22	1075	0	23	1.6	77
01-17-74	6	3.0	214	0	28	900	0	15	2.0	65
02-19-74	6	3.0	272	0	23	1500	0	20	1.7	108
03-26-74	34	3.0	156	0	7.1	850	0	64	2.9	347
05-02-74	4	3.4	190	0	6.8	950	0	9.1	0.30	46
05-30-74	2	3.5	782	0	4.7	1700	0	19	0.10	41
06-25-74	2	3.0	594	0	23	1100	0	14	0.60	26
07-22-74	2	2.9	800	0	16	1700	0	19	0.40	41
08-28-74	4	3.0	280	0	15	1125	0	13	0.70	54
MIN.	2	2.9	156	0	4.7	850	0	9.1	0.10	26
MAX.	34	3.5	800	0	28	1700	0	64	2.9	347
AVG.	6.5						0	20	1.1	83

TOBY CREEK WATERSHED WEIR NUMBER TY-30 Gas well on unnamed tributary to Toby Creek west of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	2	4.2	54	0	46	250	0	1.3	1.1	6.0
*10-26-73	2	3.3	50	0	2.6	240	0	1.2	0.10	5.8
11-29-73	6	3.3	62	0	95	450	0	4.5	6.8	32
12-19-73	4	3.1	40	0	43	350	0	1.9	2.1	17
01-17-74	6	3.2	50	0	36	225	0	3.6	2.6	16
02-19-74	6	3.3	96	0	84	625	0	6.9	6.1	45
03-26-74	4	4.6	82	4	15	225	0.19	3.9	0.70	12
*05-02-74	6	3.2	60	0	0.90	275	0	4.3	0.10	20
05-24-74	9	3.2	40	0	65	275	0	4.3	7.0	30
06-25-74	9	3.2	90	0	52	245	0	9.7	5.6	27
07-22-74	6	3.2	90	0	29	400	0	6.5	2.1	29
*08-23-74	2	3.0	500	0	64	350	0	12	1.5	8.4
10-01-74	2	3.4	88	0	78	300	0	2.1	1.9	7.2
MIN.	2	3.1	40	0	15	225	0	1.3	0.70	6.0
MAX.	9	4.6	96	4	95	625	0.19	9.7	6.8	45
AVG.	5.4						0.02	4.5	3.6	22

TOBY CREEK WATERSHED WEIR NUMBER TY-31 Intermittent small stream northeast of Snydersburg.

10-03-73	NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0	0	0
10-26-73	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
11-29-73	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
12-21-73	1094 3.9	28	0	0.74	80	0	368	9.7	1050	0
01-17-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
02-19-74	22 3.7	72	0	0	375	0	19	0	99	0
	MOVED WEIR 2-27-74. SEE TY-31A and TY-31B									
02-27-74	2						0	2.8	0	4.8
03-26-74	17						0	9.0	0.20	16
05-03-74	26						0	18	0.03	53
05-28-74	1						0	0.80	0.001	3.9
06-25-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
08-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
MIN.	22	3.7	28	0	0	80	0	19	0	99
MAX.	1094	3.9	72	0	0.74	375	0	368	9.7	1050
AVG.	558						0	194	4.8	574

TOBY CREEK WATERSHED WEIR NUMBER TY-31A Deep mine (stripped) on unnamed tributary to Engle Run northeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	2	4.0	118	0	0	200	0	2.8	0	4.8
04-04-74	4	3.9	110	0	4.4	150	0	5.3	0.20	7.2
05-03-74	4	4.0	100	0	0	275	0	4.8	0	13
05-28-74	1	3.7	64	0	0.10	325	0	0.80	0.001	3.9
06-25-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
08-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
MIN.	1	3.7	64	0	0	150	0	0.80	0	3.9
MAX.	4	4.0	118	0	4.4	325	0	5.3	0.20	13
AVG.	2.8						0	3.4	0.05	7.2

TOBY CREEK WATERSHED WEIR NUMBER TY-31B Strip mine on Engle Run northeast of Snydersburg.

02-27-74	NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0	0	0
03-28-74	6 4.0	52	0	0	150	0	3.7	0	11	0
05-03-74	22 4.2	50	0	0.10	150	0	13	0.03	40	0
05-00-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
06-25-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
08-26-74	NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0	0	0
MIN.	6	4.0	50	0	0	150	0	3.7	0	11
MAX.	22	4.2	52	0	0.10	150	0	13	0.03	40
AVG.	14						0	8.4	0.02	26

TOBY CREEK WATERSHED WEIR NUMBER TY-32 Spring on unnamed tributary to Engle Run northeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*10-03-73	12	2.9	280	0	15	720	0	40	2.2	104
10-26-74	6	3.8	74	0	1.0	240	0	5.3	0.10	17
11-29-73	156	3.5	60	0	0.29	100	0	112	0.50	187
12-21-73	22	3.7	40	0	1.1	130	0	11	0.30	34
01-17-74	22	3.7	30	0	1.4	160	0	7.9	0.40	42
02-19-74	12	3.6	40	0	1.4	550	0	5.8	0.20	79
03-26-74	70	3.8	16	0	0.89	70	0	13	0.80	59
05-03-74	34	3.8	20	0	0.60	150	0	8.2	0.20	61
05-28-74	9	3.8	28	0	0.50	150	0	3.0	0.10	16
06-20-74	6	3.7	50	0	0.80	325	0	3.6	0.10	23
07-26-74	9	3.5	36	0	0	300	0	3.9	0	33
*08-26-74	2	4.9	46	4	0.50	225	0.10	1.1	0.01	5.4
09-30-74	2	4.7	12	2	1.2	250	0.10	0.30	0.03	6.0
MIN.	2	3.5	12	0	0	70	0	0.30	0	6.0
MAX.	156	4.7	74	2	1.4	550	0.10	112	0.80	187
AVG.	32						0.009	16	0.25	51

TOBY CREEK WATERSHED WEIR NUMBER TY-33 Intermittent small stream northeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	12	3.9	26	0	0.80	91	0	3.7	0.10	13
10-26-73	12	4.0	27	0	0.30	100	0	3.9	0.04	14
11-29-73	1094	3.6	32	0	0.29	175	0	420	3.8	2297
12-21-73	397	3.5	28	0	0.44	70	0	133	2.0	333
01-17-74	397	3.7	42	0	1.1	115	0	200	5.0	548
02-19-74	694	3.7	48	0	0.29	425	0	400	2.4	3539
03-27-74	50	4.3	24	0	0	80	0	14	0	48
05-03-74	50	4.4	12	0	0	45	0	7.2	0	27
05-31-74	22	4.0	38	0	0	150	0	10	0	40
06-25-74	6	3.8	78	0	0.90	190	0	5.6	0.10	14
07-26-74	6	4.0	44	0	0.60	250	0	3.2	0.04	18
*08-26-74	6	5.2	38	14	0.50	100	1.0	2.7	0.04	7.2
09-30-74	123	3.8	50	0	0.20	275	0	74	0.30	406
MIN.	6	3.5	12	0	0	45	0	3.2	0	13
MAX.	1094	4.4	78	0	1.1	425	0	420	5.0	3539
AVG.	239						0	106	1.1	608

TOBY CREEK WATERSHED WEIR NUMBER TY-34 Intermittent small stream northeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	12	3.8	64	0	0.90	180	0	9.4	0.10	26
10-26-73	12	4.1	60	0	0.40	200	0	8.8	0.10	29
11-29-73	462	3.2	42	0	0.15	100	0	233	0.80	554
12-21-73	397	3.6	26	0	0.29	140	0	124	1.4	667
01-17-74	284	4.1	44	0	0.29	155	0	150	1.0	528
02-19-74	214	3.8	42	0	0	475	0	108	0	1220
03-27-74	12	4.2	28	0	0	120	0	4.1	0	17
05-03-74	34	4.1	38	0	0.10	160	0	16	0.04	65
05-31-74	6	4.0	30	0	0.90	150	0	2.2	0.10	11
06-25-74	6	4.2	64	0	0.10	150	0	4.6	0.007	65
07-26-74	2	3.9	24	0	1.4	250	0	0.60	0.03	6.0
*08-26-74	2	5.1	20	14	0.60	200	0.30	0.50	0.01	4.8
09-30-74	2	4.1	32	0	0	300	0	0.80	0	4.8
MIN.	2	3.2	24	0	0	100	0	0.60	0	4.8
MAX.	462	4.2	64	0	0.90	475	0	233	1.4	1220
AVG.	120						0	55	0.30	266

TOBY CREEK WATERSHED WEIR NUMBER TY-35 Spring on Engle Run east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	6	5.1	6	0	5.0	24	0	0.40	0.40	1.7
10-26-73	2	5.0	3	0	0.10	17	0	0.10	0.002	0.40
11-29-73	6	4.1	40	0	0	175	0	2.9	0	13
12-21-73										
01-17-74	22	4.7	14	4	0.15	30	1.1	3.7	0.04	7.9
02-19-74	6	4.4	24	0	0	125	0	1.7	0	9.0
04-04-74	34	4.4	6	0	4.4	30	0	2.4	1.8	12
05-03-74	28	4.8	4	6	0	17	2.0	1.3	0	5.7
05-28-74	4	4.7	6	6	0	35	0.30	0.30	0	1.7
06-20-74	4	4.4	8	0	0	225	0	0.40	0	11
07-26-74	4	4.3	2	0	1.6	200	0	0.90	0.10	9.6
*08-26-74	2	6.0	14	25	0	150	0.60	0.30	0	3.6
09-30-74	6	4.4	32	0	0	325	0	2.3	0	23
MIN.	4	4.1	2	0	0	17	0	0.10	0	0.40
MAX.	34	5.1	40	6	5.0	325	2.0	3.7	1.8	23
AVG.	11						0.31	1.5	0.21	8.6

TOBY CREEK WATERSHED WEIR NUMBER TY-36 Strip mine on unnamed tributary to Engle Run east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	2	3.7	120	0	2.6	280	0	2.9	0.10	6.7
10-26-73	2	3.6	110	0	1.1	310	0	2.6	0.03	7.4
11-30-73	4	3.4	20	0	0.59	550	0	1.0	0.03	26
12-21-73	NO SAMPLE AVAILABLE - BROKEN IN TRANSIT									
01-17-74	9	4.0	62	0	0.44	215	0	6.7	0.10	23
*02-20-74	6	3.8	232	0	0.44	150	0	17	0.03	11
03-27-74	42	3.9	42	0	0	150	0	21	0	76
05-14-74	50	3.8	66	0	1.0	225	0	40	0.60	135
05-29-74	6	3.8	42	0	0.60	150	0	3.0	0.04	11
06-25-74	2	3.8	52	0	0.70	145	0	1.2	0.02	3.5
07-26-74	6	3.4	54	0	1.5	275	0	3.9	0.10	20
09-05-74	22	3.3	104	0	1.4	375	0	28	0.40	99
MIN.	2	3.3	20	0	0	145	0	1.0	0	3.5
MAX.	50	4.0	120	0	2.6	550	0	40	0.60	135
AVG.	14						0	11	0.14	41

TOBY CREEK WATERSHED WEIR NUMBER TY-37 Spring on unnamed tributary to Engle Run east of Snydersburg.

10-05-73	2	3.6	130	0	1.3	410	0	3.1	0.03	9.8
10-26-73	2	3.7	170	0	0.90	500	0	4.1	0.02	12
11-30-73	6	3.4	158	0	0.44	350	0	11	0.03	25
12-21-73	12	3.4	96	0	0.74	265	0	14	0.10	38
01-17-74	12	3.8	100	0	0.44	200	0	14	0.10	29
02-21-74	9	3.5	114	0	0.59	550	0	12	0.10	59
03-27-74	28	3.9	64	0	0	275	0	22	0	92
05-03-74	34	2.9	58	0	0.10	195	0	24	0.04	80
05-28-74	4	3.8	90	0	0.20	300	0	4.3	0.009	14
06-25-74	4	3.8	130	0	0.10	310	0	6.2	0.004	15
07-26-74	6	3.4	102	0	0.50	400	0	7.3	0.04	29
09-05-74	34	3.4	84	0	0.30	350	0	34	0.10	143
MIN.	2	2.9	58	0	0.10	195	0	3.1	0.009	9.8
MAX.	34	3.9	170	0	1.3	550	0	34	0.10	143
AVG.	13						0	13	0.05	45

TOBY CREEK WATERSHED WEIR NUMBER TY-38 Spring on unnamed tributary to Engle Run east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	4	4.3	17	0	0.20	55	0	0.80	0.009	2.6
10-26-73	2	4.4	16	0	0.20	72	0	0.40	0.004	1.7
11-30-73	22	3.9	12	0	0	150	0	3.2	0	40
12-21-73	12	3.9	8	0	0	35	0	1.2	0	5.0
01-17-74	34	4.5	6	4	0.15	23	1.6	2.4	0.10	9.4
02-21-74	17	3.8	24	0	0	250	0	4.9	0	51
03-27-74	42	4.5	4	0	0	25	0	2.0	0	13
05-03-74	50	4.6	4	2	0	14	1.2	2.4	0	8.4
05-30-74	12	4.4	8	0	0.10	200	0	1.2	0.01	29
06-25-74	2	4.3	14	0	0	60	0	0.30	0	1.4
07-26-74	4	4.0	8	0	0	225	0	0.40	0	11
09-05-74	50	4.0	12	0	0	275	0	0.70	0	165
MIN.	2	3.8	4	0	0	14	0	0.30	0.004	1.4
MAX.	50	4.6	24	4	0.20	275	1.6	4.9	0.10	165
AVG.	21						0.23	1.7	0.01	28

TOBY CREEK WATERSHED WEIR NUMBER TY-39 Gas well on Engle Run east of Snydersburg.

10-05-73	NO SAMPLE AVAILABLE - DRY									
10-26-73	NO SAMPLE AVAILABLE - DRY									
11-30-73	NO SAMPLE AVAILABLE - DRY									
12-21-73	193	2.6	400	0	80	1025	0	926	185	2374
01-17-74	34	2.8	300	0	99	950	0	122	40	388
02-21-74	28	2.8	282	0	313	1575	0	95	105	529
*03-27-74	34	4.6	616	8	380	975	3.3	251	155	398
05-03-74	42	2.9	400	0	203	900	0	202	102	454
05-30-74	34	3.0	560	0	243	1250	0	229	99	510
06-25-74	34	3.2	590	0	261	1400	0	241	106	571
07-26-74	34	2.7	400	0	134	1100	0	163	55	449
*01-05-74	22	2.7	1000	0	83	3500	0	264	22	924
MIN.	28	2.6	282	0	80	900	0	95	40	388
MAX.	193	3.2	590	0	313	1575	0	926	185	3274
AVG.	57						0	283	99	754

TOBY CREEK WATERSHED WEIR NUMBER TY-40 Intermittent small stream northwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
10-26-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
12-21-73			NO SAMPLE AVAILABLE - FROZEN	0	0	0	0	0	0	0
01-17-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
02-21-74			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
03-28-74	193	4.1	24	0	0	55	0	56	0	127
05-02-74	193	4.1	50	0	NO SMALL BOTTLE	175	0	116	NO SMALL BOTTLE	405
05-31-74	193	3.6	34	0	0.70	250	0	79	1.6	579
06-26-74	694	3.1	48	0	2.9	150	0	400	24	1249
07-26-74	694	3.2	44	0	2.6	250	0	366	22	2082
*08-23-74	70	3.0	400	0	3.1	275	0	336	2.6	231
10-01-74	34	3.9	32	0	0	300	0	13	0	122
MIN.	34	3.1	24	0	0	55	0	13	0	122
MAX.	694	4.1	50	0	2.9	300	0	400	24	2082
AVG.	334						0	172	9.5	761

TOBY CREEK WATERSHED WEIR NUMBER TY-41 Intermittent small stream east of Snydersburg.

10-03-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
10-26-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
12-21-73			NO SAMPLE AVAILABLE - BROKEN IN TRANSIT	0	0	0	0	0	0	0
01-17-74	236	2.9	200	0	33	400	0	566	94	1133
			MOVED WEIR. SEE TY-41A and TY-41B							
02-19-74	26						0	61	2.3	130
03-27-74	34						0	63	1.6	106
05-03-74	76						0	122	3.9	193
05-24-74	2						0	2.9	0.007	5.4
06-20-74	1						0	2.0	0.03	3.3
07-22-74	1						0	1.7	0.02	4.2
08-26-74	0						0.20	0	0	0
09-30-74	2						0	1.6	0.007	8.4
			TOTALS FOR TY-41A and TY-41B							

TOBY CREEK WATERSHED WEIR NUMBER TY-41A Spring on Little Toby Creek east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	22	3.1	220	0	8.9	465	0	58	2.3	123
03-27-74	28	3.1	180	0	4.7	275	0	61	1.6	92
05-03-74	70	3.3	142	0	4.7	225	0	119	3.9	189
05-24-74	2	3.7	122	0	0.30	225	0	2.9	0.007	5.4
06-20-74	1	3.2	170	0	2.4	275	0	2.0	0.03	3.3
07-22-74	1	3.4	140	0	1.8	350	0	1.7	0.02	4.2
*08-26-74	1	4.7	92	10	1.6	150	0.10	1.1	0.02	1.8
*09-30-74	34	2.9	500	0	18	400	0	204	7.4	163
MIN.	1	3.1	122	0	0.30	225	0	1.7	0.007	3.3
MAX.	70	3.7	220	0	8.9	465	0	119	3.9	189
AVG.	21						0	41	1.3	69

TOBY CREEK WATERSHED WEIR NUMBER TY-41B Strip mine on Little Toby Creek east of Snydersburg.

02-19-74	4	3.5	54	0	0	150	0	2.6	0	7.2
03-27-74	6	3.5	38	0	0	200	0	2.7	0	14
05-03-74	6	3.9	24	0	0	55	0	1.7	0	4.0
*05-24-74	17	2.8	260	0	14	450	0	53	2.9	92
06-24-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
07-22-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
*08-26-74	1	4.7	98	10	1.3	275	0.10	1.2	0.02	3.3
09-30-74	2	3.6	68	0	0.30	350	0	1.6	0.007	8.4
MIN.	2	3.5	24	0	0	55	0	1.6	0	4.0
MAX.	6	3.9	68	0	0.30	350	0	2.7	0.007	14
AVG.	4.5						0	2.2	0.002	8.4

TOBY CREEK WATERSHED WEIR NUMBER TY-42 Intermittent small stream east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	12	3.3	140	0	2.3	330	0	3.4	0.06	7.9
10-26-73	2	3.4	170	0	3.2	370	0	4.1	0.08	8.9
11-30-73	34	2.7	440	0	52	600	0	179	21	245
12-21-73	193	2.8	140	0	16	300	0	324	36	695
01-17-74	70	3.1	180	0	7.4	325	0	151	6.2	273
02-19-74	22	2.8	240	0	9.2	475	0	63	2.4	125
WEIR MOVED. SEE TY-42A and TY-42B										
02-27-74	6						0	38	2.3	54
03-27-74	23						0	116	6.4	149
05-03-74	21						0	85	4.1	215
05-24-74	12						0	61	2.9	130
06-20-74	4						0	31	0.50	79
07-22-74	17						0	163	3.5	357
08-26-74	1						0	1.8	0.02	5.1
TOTALS FOR TY-42A and TY-42B										
MIN.	2	2.7	140	0	2.3	300	0	3.4	0.06	7.9
MAX.	193	3.4	440	0	52	600	0	324	36	695
AVG.	56						0	121	11	226

TOBY CREEK WATERSHED WEIR NUMBER TY-42A Deep mine on unnamed tributary to Little Toby Creek east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	4	2.8	680	0	43	925	0	33	2.1	44
03-27-74	17	2.7	488	0	28	975	0	100	5.8	199
05-03-74	17	2.9	392	0	19	1025	0	80	4.0	209
05-24-74	12	2.8	420	0	20	900	0	61	2.9	130
06-20-74	4	3.0	640	0	10	1650	0	31	0.50	79
07-22-74	17	2.9	800	0	17	1750	0	163	3.5	357
08-26-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
MIN.	4	2.7	392	0	10	900	0	31	0.50	44
MAX.	17	3.0	800	0	43	1750	0	163	5.8	357
AVG.	12						0	78	3.1	170

TOBY CREEK WATERSHED WEIR NUMBER TY-42B Strip mine on unnamed tributary to Little Toby Creek east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	2	3.4	220	0	6.4	400	0	5.3	0.20	9.6
03-27-74	6	3.1	220	0	8.4	700	0	16	0.60	50
05-03-74	4	3.4	100	0	2.6	125	0	4.8	0.10	6.0
*05-24-74	1	3.6	16	0	4.7	55	0	0.20	0.10	0.70
06-20-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
07-22-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
08-26-74	1	4.5	146	0	1.4	425	0	1.8	0.02	5.1
MIN.	1	3.1	100	0	1.4	125	0	1.8	0.02	5.1
MAX.	6	4.5	220	0	8.4	700	0	16	0.60	50
AVG.	3.3						0	7.0	0.23	18

TOBY CREEK WATERSHED WEIR NUMBER TY-43 Gas well on Little Toby Creek east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
10-26-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
12-21-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
01-17-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
*02-21-74	4	2.7	232	0	545	1750	0	11	26	84
03-27-74	2	2.9	900	0	733	1275	0	22	18	31
05-07-74	2	2.7	720	0	293	1100	0	17	7.0	26
05-28-74	1	2.5	740	0	348	1300	0	19	4.2	16
06-24-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
07-22-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
08-26-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
MIN.	1	2.5	720	0	293	1100	0	17	4.2	16
MAX.	2	2.9	900	0	733	1300	0	22	18	31
AVG.	1.7						0	19	9.7	24

TOBY CREEK WATERSHED WEIR NUMBER TY-44 Spring on Little Toby Creek east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
10-26-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
12-21-73			NO SAMPLE AVAILABLE - NO RESULTS FROM LAB	0	0	0	0	0	0	0
01-17-74	397	4.2	10	0	0.15	34	0	48	0.70	162
02-21-74	2	3.5	44	0	0.44	125	0	1.1	0.01	3.0
03-26-74	1	3.7	24	0	0.67	45	0	0.30	0.008	0.50
05-07-74	22	4.4	8	0	0.10	18	0	2.1	0.03	4.8
05-28-74	2	3.8	12	0	0.30	125	0	0.30	0.007	3.0
06-25-74	1	4.5	40	0	0.20	35	0	0.50	0.002	0.40
07-24-74	1	4.1	10	0	0.40	150	0	0.10	0.004	1.8
08-23-74	1	4.2	28	0	0	225	0	0.30	0	2.7
MIN.	1	3.5	8	0	0	18	0	0.10	0	0.40
MAX.	397	4.5	44	0	0.67	225	0	48	0.70	162
AVG.	53						0	6.6	0.10	22

TOBY CREEK WATERSHED WEIR NUMBER TY-45 Deep and strip on unnamed tributary to Little Toby Creek southeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	2	3.3	64	0	3.8	98	0	1.5	0.10	2.4
11-02-73	22	3.2	110	0	1.4	160	0	29	0.40	42
11-30-73	4	3.0	118	0	0.59	175	0	5.7	0.02	8.4
12-21-73	6	2.9	114	0	0.89	145	0	8.2	0.10	10
01-17-74	50	3.2	106	0	1.2	185	0	64	0.70	111
02-21-74	12	2.9	164	0	1.2	425	0	24	0.20	61
03-27-74	22	3.1	140	0	1.3	75	0	37	0.40	20
05-03-74	22	3.3	114	0	1.0	150	0	30	0.30	40
05-29-74	6	2.9	200	0	1.6	150	0	14	0.10	11
06-25-74	2	3.2	130	0	2.4	115	0	3.1	0.10	2.8
07-22-74	6	2.9	300	0	2.2	225	0	22	0.20	16
08-23-74	6	3.0	500	0	5.2	225	0	36	0.40	16
MIN.	2	2.9	64	0	0.59	75	0	1.5	0.02	2.4
MAX.	50	3.3	500	0	5.2	425	0	64	0.70	111
AVG.	13						0	23	0.25	28

TOBY CREEK WATERSHED WEIR NUMBER TY-46 Intermittent small stream southeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	6	3.3	89	0	8.0	120	0	6.4	0.60	8.6
11-02-73	50	3.3	78	0	2.0	70	0	47	1.2	42
11-30-73	22	3.1	120	0	3.4	175	0	32	0.90	46
12-21-73	22	2.9	108	0	6.0	115	0	29	1.6	30
*01-17-74	694	2.9	100	0	25	200	0	833	210	1666
02-20-74	6	3.2	114	0	1.2	250	0	8.2	0.10	18
03-27-74	22	3.1	120	0	3.1	225	0	32	0.80	59
05-03-74	70	3.2	100	0	4.4	175	0	84	3.7	147
05-29-74	12	3.2	100	0	1.2	175	0	14	0.20	25
06-25-74	4	3.4	66	0	1.8	75	0	3.2	0.10	3.6
07-22-74	9	3.1	70	0	0.50	275	0	7.6	0.10	30
08-23-74	4	3.1	60	0	2.3	550	0	2.9	0.10	26
MIN.	4	2.9	60	0	0.5	70	0	2.9	0.10	3.6
MAX.	70	3.4	120	0	8.0	550	0	84	3.7	147
AVG.	21						0	24	0.85	40

TOBY CREEK WATERSHED WEIR NUMBER TY-47 Spring on Little Toby Creek southeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
11-02-73	2	3.0	150	0	24	520	0	3.6	0.60	13
11-29-73	2	2.7	320	0	118	550	0	7.7	2.8	13
12-21-73	2	2.8	120	0	50	350	0	2.9	1.2	8.4
01-17-74	2	2.9	100	0	54	450	0	2.4	1.3	11
*02-21-74	2	2.8	184	0	139	1150	0	4.4	3.3	28
03-27-74	2	2.9	200	0	176	575	0	4.8	4.2	14
*05-08-74	2	3.9	16	0	5.6	54	0	0.40	0.10	1.3
05-30-74	2	2.9	100	0	57	250	0	2.4	1.4	6.0
06-25-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
07-24-74	2	2.7	400	0	117	425	0	9.6	2.8	10
08-23-74	2	2.6	500	0	6.7	600	0	12	0.20	14
MIN.	2	2.6	100	0	5.6	250	0	2.4	0.20	6.0
MAX.	2	3.0	500	0	176	600	0	12	4.2	14
AVG.	2						0	5.7	1.8	11

TOBY CREEK WATERSHED WEIR NUMBER TY-48 Gas well on Little Toby Creek southeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	NO SAMPLE AVAILABLE - NOT TAKEN		0	0	0	0	0	0	0	0
11-02-73	6	4.4	300	0	190	880	0	22	14	63
11-29-73	6	2.9	600	0	187	800	0	43	13	58
12-21-73	4	2.7	280	0	70	825	0	13	3.3	40
01-17-74	2	3.6	290	0	82	700	0	7.0	2.0	17
02-21-74	9	3.2	142	0	227	1125	0	15	25	122
03-27-74	9	4.2	208	0	323	575	0	23	35	62
05-08-74	6	3.3	340	0	175	750	0	25	13	54
05-30-74	4	3.1	350	0	175	650	0	17	8.4	31
06-25-74	4	3.4	438	0	165	1475	0	21	7.9	71
07-24-74	4	3.0	500	0	231	600	0	24	11	29
08-23-74	2	2.9	500	0	90	925	0	12	2.2	22
MIN.	2	2.7	142	0	70	575	0	7.0	2.2	17
MAX.	9	4.4	600	0	323	1475	0	43	35	122
AVG.	5.1						0	20	12	52

TOBY CREEK WATERSHED WEIR NUMBER TY-49 Spring on Little Toby Creek southeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	NO SAMPLE AVAILABLE - NOT TAKEN		0	0	0	0	0	0	0	0
11-02-73	4	2.8	92	0	6.5	230	0	4.4	30	11
11-29-73	4	2.9	140	0	24	150	0	6.7	1.2	7.2
12-21-73	4	2.7	40	0	46	250	0	1.9	2.2	12
01-17-74	70	3.7	10	0	4.0	47	0	8.4	3.3	40
*02-21-74	2	2.8	240	0	217	1100	0	5.8	5.2	26
03-27-74	9	3.5	14	0	3.8	20	0	1.5	0.40	2.2
05-08-74	6	3.9	14	0	3.3	39	0	1.0	0.20	2.8
05-28-74	2	3.0	90	0	1.8	125	0	2.2	0.10	3.0
06-25-74	1	2.8	100	0	45	375	0	1.2	0.50	4.5
*07-24-74	2	3.0	300	0	23	150	0	7.2	0.60	3.6
08-23-74	2	2.7	300	0	2.8	350	0	7.2	0.10	8.4
MIN.	1	2.7	10	0	1.8	20	0	1.0	0.10	2.2
MAX.	70	3.9	300	0	46	375	0	8.4	30	40
AVG.	11						0	3.8	4.2	10

TOBY CREEK WATERSHED WEIR NUMBER TY-50 Intermittent small stream south of Lucinda

DATE	GPM	pH	PPM				PPD				
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄	
10-03-73	22	2.9	140	0	6.2	190	0	37	1.6	50	
11-02-73	22	3.1	80	0	2.6	130	0	21	0.69	34	
11-30-73	22	3.0	98	0	1.5	150	0	26	0.40	40	
12-21-73	193	2.9	62	0	1.5	150	0	144	3.5	347	
01-17-74	1094	2.8	200	0	25.2	200	0	2626	331	2626	
	WEIR MOVED. SEE TY-50A, TY-50B, TY-50C, TY-50D, and TY-50E.										
02-19-74	18						0	129	33	110	
03-28-74	43						0	389	69	379	
05-06-74	75						0	224	27	301	
05-24-74	34	TOTALS FOR TY-50A, TY-50B, TY-50C, TY-50D, and TY-50E.									123
06-25-74	3						0	94	8.5	11	
07-22-74	13						0	8.8	0.40	30	
08-26-74	22						0	7.7	0.40	92	
MIN.	22	2.8	62	0	1.5	130	0	21	0.40	34	
MAX.	1094	3.1	200	0	25.2	200	0	2626	331	2626	
AVG.	271						0	571	67	619	

TOBY CREEK WATERSHED WEIR NUMBER TY-50A Deep mine on Step Creek south of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	12	2.4	800	0	216	700	0	115	31	101
03-28-74	22	2.4	1160	0	219	1125	0	306	58	297
05-06-74	34	2.8	360	0	50	450	0	147	21	184
05-24-74	9	2.8	300	0	36	275	0	32	3.8	30
06-25-74	1	2.8	240	0	6.3	400	0	2.9	0.10	4.8
07-22-74	1	2.8	400	0	16	375	0	4.8	0.20	4.5
08-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	1	2.4	240	0	6.3	275	0	2.9	0.1	4.5
MAX.	34	2.8	1160	0	219	1125	0	306	58	297
AVG.	12						0	101	19	104

TOBY CREEK WATERSHED WEIR NUMBER TY-50B Deep mine on unnamed tributary to Step Run west of Lucinda

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*02-21-74	2	2.6	56	0	85	1250	0	1.3	2.0	30
03-28-74	9	2.7	500	0	61	425	0	54	6.6	46
05-07-74	12	2.6	340	0	38	525	0	49	5.5	76
05-28-74	4	2.6	360	0	50	425	0	17	2.4	20
06-20-74	1	2.7	420	0	21	325	0	5.0	0.20	3.9
07-22-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	1	2.6	340	0	21	325	0	5.0	0.20	3.9
MAX.	12	2.7	500	0	61	525	0	54	6.6	76
AVG.	6.5						0	31	3.7	36

TOBY CREEK WATERSHED WEIR NUMBER TY-50C Deep mine on unnamed tributary to Step Run west of Lucinda.

02-21-74	6	3.0	200	0	21	125	0	14	1.5	9.0
03-28-74	12	2.9	200	0	27	250	0	29	3.9	36
05-07-74	17	3.2	94	0	7.8	200	0	19	1.6	41
05-29-74	17	2.9	200	0	12	325	0	41	2.3	66
*06-20-74	6	3.0	200	0	4.5	1175	0	14	0.30	85
07-22-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	6	2.9	94	0	7.8	125	0	14	1.5	9.0
MAX.	17	3.2	200	0	27	325	0	41	3.9	66
AVG.	13						0	26	2.3	38

TOBY CREEK WATERSHED WEIR NUMBER TY-50D Air pipe from Clay mine on unnamed tributary to Step Run south of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
05-01-74	12	3.5	60	0	0.20	200	0	8.6	0.03	29
05-24-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
06-24-64	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-24-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	22	3.2	72	0	1.8	350	0	19	0.50	92
MIN.	12	3.2	60	0	0.20	200	0	8.6	0.03	29
MAX.	22	3.5	72	0	1.8	350	0	19	0.50	92
AVG.	17						0	14	0.27	61

TOBY CREEK WATERSHED WEIR NUMBER TY-50E Strip on unnamed tributary to Step Run south of Lucinda.

05-01-74	9	4.0	72	0 NO SMALL BOTTLE		175	0	7.8	NO SMALL BOTTLE		19
05-30-74	4	3.9	74	0	0	150	0	3.6	0	7.2	
06-25-74	1	3.4	72	0	0.10	200	0	0.90	0.10	2.4	
07-24-74	12	4.7	20	6	1.1	175	0.90	2.9	0.20	25	
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0	
MIN.	1	3.4	20	0	0	150	0	0.90	0	2.4	
MAX.	12	4.7	74	0	1.1	200	0.90	7.8	0.2	25	
AVG.	6.5						0,23	3.8	0.10	13	

TOBY CREEK WATERSHED WEIR NUMBER TY-51 Strip mine on unnamed tributary to Little Toby Creek south of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
01-17-74	2	2.9	300	0	39	1375	0	7.2	0.90	33

After 01-17-74, same as Weir Number TY-52

TOBY CREEK WATERSHED WEIR NUMBER TY-52 Strip mine on unnamed tributary to Little Toby Creek south of Lucinda.

			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-30-73	1	2.6	740	0	129	1600	0	8.9	1.6	19
			NO SAMPLE AVAILABLE - FROZEN	0	0	0	0	0	0	0
01-17-74	4	2.9	300	0	36	850	0	14	1.7	41
02-21-74	6	3.1	320	0	67	1950	0	23	4.8	140
04-01-74	22	2.9	180	0	28	1175	0	48	7.4	310
05-08-74	17	3.2	240	0	32	2000	0	49	6.5	408
05-30-74	4	3.1	360	0	41	1700	0	17	2.0	82
06-25-74	6	2.7	400	0	60	2200	0	29	4.3	158
07-26-74	6	2.9	314	0	29	2200	0	23	4.3	158
09-05-74	17	2.9	700	0	47	2450	0	143	9.7	500
MIN.	1	2.6	180	0	28	850	0	8.8	1.6	19
MAX.	22	3.2	740	0	129	2450	0	143	9.7	500
AVG.	9.2						0	39	4.7	202

TOBY CREEK WATERSHED WEIR NUMBER TY-53 Spring on Little Toby Creek east of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-02-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
12-21-73	2	3.0	58	0	2.0	80	0	1.4	0.10	1.9
01-17-74	60	3.6	20	0	1.1	100	0	14	0.90	72
02-21-74	50	3.4	86	0	2.5	725	0	52	1.5	435
04-04-74	50	3.5	22	0	5.4	50	0	13	3.2	30
05-02-74	2	3.5	28	0	0.90	160	0	0.70	0.02	3.8
05-28-74	50	3.5	50	0	1.6	135	0	30	1.0	81
06-26-74	2	3.1	88	0	2.1	200	0	2.1	0.10	4.8
07-24-74	22	3.3	66	0	4.2	175	0	17	1.1	46
08-23-74	1	3.0	500	0	0	550	0	6.0	0	6.6
MIN.	1	3.0	22	0	0	50	0	0.70	0.02	1.9
MAX.	60	3.6	500	0	5.4	725	0	52	3.2	435
AVG.	27						0	15	1.8	76

TOBY CREEK WATERSHED WEIR NUMBER TY-53B Spring on Little Toby Creek east of Lucinda

02-21-74			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
03-28-74			NO SAMPLE AVAILABLE - NOT TAKEN	0	0	0	0	0	0	0
05-02-74	34	4.5	6	0	0	75	0	2.4	0	31
05-29-74	12	4.4	12	0	0.20	75	0	1.7	0.10	11
06-26-74	17	4.6	8	2	1.0	100	0.41	1.6	0.20	20
07-24-74	6	4.9	14	8	1.4	100	0.58	1.0	0.10	7.2
08-23-74	4	5.1	10	6	0	300	0.29	0.50	0	14
MIN.	4	4.4	6	0	0	75	0	0.50	0	7.2
MAX.	34	5.1	14	8	1.4	300	0.58	2.4	0.20	31
AVG.	15						0.25	1.4	0.08	17

TOBY CREEK WATERSHED WEIR NUMBER TY-53E Spring on Little Toby Creek east of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-21-74	70	3.9	44	0	0	300	0	37	0	252
03-28-74	50	4.4	14	0	0.67	160	0	8.4	0.40	96
*05-14-74	34	4.6	60	40	0.20	125	16	25	0.10	51
05-29-74	22	4.6	10	2	0.70	200	0.50	2.6	0.20	53
06-26-74	12	4.7	12	2	0.70	198	0.30	1.7	0.10	29
07-22-74	1	3.5	60	0	0.10	225	0	0.70	0.001	2.7
08-23-74	6	5.2	14	6	0	300	0.40	1.0	0	22
MIN.	1	3.5	10	0	0	160	0	0.70	0.001	2.7
MAX.	70	5.2	60	6	0.70	300	0.50	37	0.40	252
AVG.	27						0.20	8.6	0.13	76

TOBY CREEK WATERSHED WEIR NUMBER TY-54 Spring on Little Toby Creek east of Lucinda.

DATE	GPM	pH	PPM				PPD				
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄	
10-02-73			NO SAMPLE AVAILABLE - DRY				0	0	0	0	0
11-02-73			NO SAMPLE AVAILABLE - DRY				0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY				0	0	0	0	0
12-21-73	34	3.0	54	0	2.5	240	0	22	1.0	98	
01-17-74	397	3.7	20	0	0.89	100	0	95	42	476	
02-21-74	2	3.5	100	0	1.8	600	0	2.4	0.04	14	
04-04-74	4	3.5	20	0	5.2	90	0	1.0	0.30	4.3	
05-02-74	123	3.5	28	0	1.0	165	0	41	1.5	244	
05-29-74	1	3.5	38	0	1.6	125	0	0.50	0.02	1.5	
06-26-74	22	3.1	82	0	3.1	150	0	22	0.80	40	
07-24-74	1	3.3	64	0	1.8	225	0	0.80	0.02	2.7	
08-23-74	22	3.1	70	0	0.90	425	0	19	0.20	112	
MIN.	1	3.0	20	0	0.89	90	0	0.50	0.02	1.5	
MAX.	397	3.7	100	0	5.2	600	0	95	42	476	
AVG.	67						0	23	0.92	110	

TOBY CREEK WATERSHED WEIR NUMBER TY-55 Strip mine on unnamed tributary to Toby Creek southeast of Lucinda.

DATE	GPM	pH	PPM				PPD				
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄	
10-05-73	2	3.1	140	0	12	910	0	3.4	0.30	22	
11-02-73			NO SAMPLE AVAILABLE - NOT TAKEN				0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - NOT TAKEN				0	0	0	0	0
12-21-73			NO SAMPLE AVAILABLE - FROZEN				0	0	0	0	0
*01-17-74	694	3.7	54	0	2.4	170	0	450	20	1416	
02-21-74	17	3.5	162	0	2.9	825	0	33	0.60	168	
03-28-74	22	3.5	134	0	2.0	225	0	35	0.50	59	
05-09-74	12	2.9	760	0	33	975	0	109	4.8	140	
05-30-74	17	3.4	150	0	1.3	300	0	31	0.30	61	
06-25-74	34	3.6	210	0	6.0	325	0	86	2.4	133	
07-26-74	12	2.9	266	0	8.8	800	0	38	1.3	115	
09-05-74	156	3.4	114	0	1.3	325	0	213	2.4	608	
MIN.	2	2.9	114	0	1.3	225	0	3.4	0.30	22	
MAX.	156	3.6	760	0	33	975	0	213	4.8	608	
AVG.	34						0	69	1.6	163	

TOBY CREEK WATERSHED WEIR NUMBER TY-56A Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-21-74	22	3.2	110	0	38	1050	0	29	10	277
03-28-74	34	2.9	440	0	30	275	0	180	12	112
*05-02-74	50	3.1	120	0	3.9	550	0	72	2.3	330
05-23-74	193	2.9	220	0	86	700	0	510	199	1621
*06-20-74	22	2.9	220	0	42	160	0	58	11	42
07-22-74	17	2.6	500	0	46	1050	0	102	9.3	2.4
08-19-74	6	2.8	380	0	71	1050	0	27	5.1	76
MIN.	6	2.6	110	0	30	275	0	27	5.1	76
MAX.	193	3.2	500	0	86	1050	0	510	199	1621
AVG.	54						0	170	47	460

TOBY CREEK WATERSHED WEIR NUMBER TY-57 Intermittent small stream southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	6	4.8	6	0	0.50	36	0	0.43	0.04	2.6
11-02-73	193	3.7	120	0	1.2	410	0	278	2.8	950
*11-30-73	193	3.7	88	0	0.44	1825	0	204	1.0	4227
12-21-73	694	3.6	110	0	0.44	280	0	916	3.7	2332
01-17-74	397	4.1	40	0	0.59	160	0	191	2.8	762
*02-21-74	70	3.6	362	0	0.89	1625	0	304	0.75	1365
03-28-74	70	3.7	170	0	0	675	0	143	0	581
MOVED WEIR. SEE WEIR TY-57A and TY-57B										
05-08-74	10						0	26	0.10	166
05-30-74	8						0	9.6	0.03	46
06-25-74	0	TOTALS FOR TY-57A and TY-57B					0	0	0	0
07-23-74	1						0.50	0.20	0.04	3.0
08-27-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	6	3.6	6	0	0	36	0	0.43	0	2.6
MAX.	694	4.8	170	0	1.2	675	0	916	3.7	2332
AVG.	272						0	306	1.9	925

TOBY CREEK WATERSHED WEIR NUMBER TY-57A Strip on Cherry Run southwest of Helen Furnace.

05-08-74	4	4.2	74	0	0	350	0	3.6	0	17
05-30-74	6	4.1	62	0	0.20	150	0	4.5	0.01	11
*06-25-74	2	4.2	40	0	0.64	325	0	1.0	1.5	7.8
07-23-74	1	5.5	16	40	3.6	250	0.50	0.20	0.04	3.0
08-27-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	4.1	16	0	0	150	0	0.20	0	3.0
MAX.	6	5.5	74	40	3.6	350	0.50	4.5	0.04	17
AVG.	3.7						0.17	2.8	0.02	10

TOBY CREEK WATERSHED WEIR NUMBER TY-57B Strip mine on Cherry Run southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
05-08-74	6	3.6	304	0	0.70	2075	0	22	0.10	149
05-30-74	2	3.4	214	0	0.80	1475	0	5.1	0.02	35
06-25-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
07-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-27-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	2	3.4	214	0	0.70	1475	0	5.1	0.02	35
MAX.	6	3.6	304	0	0.80	2075	0	22	0.10	149
AVG.	4.0						0	14	0.06	92

TOBY CREEK WATERSHED WEIR NUMBER TY-58 Intermittent small stream southwest of Helen Furnace

10-05-73	12	4.8	30	0	0.50	34	0	4.3	0.10	4.9
11-02-73	694	4.9	7	0	0.30	22	0	58	2.6	183
11-30-73	397	4.3	8	0	0.15	150	0	38	0.70	715
12-21-73	1609	4.3	10	0	0.29	40	0	193	5.8	772
01-17-74	694	4.5	16	4	0.59	111	34	133	5.0	924
*02-21-74	34	3.9	22	0	0.44	1800	0	9.0	0.20	747
03-26-74	193	4.3	12	0	0	70	0	28	0	162
MIN.	12	4.3	7	0	0	34	0	4.3	0	4.9
MAX.	1609	4.9	30	4	0.59	150	34	193	5.8	924
AVG.	600						5.7	76	2.4	460

TOBY CREEK WATERSHED WEIR NUMBER TY-58A Strip mine on unnamed tributary to Cherry Run southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
05-08-74	9	4.2	34	0	0.70	150	0	3.7	0.10	16
05-28-74	6	3.8	30	0	1.3	150	0	2.2	0.10	11
06-25-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
07-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-27-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	6	3.8	30	0	0.70	150	0	2.2	0.10	11
MAX.	9	4.2	34	0	1.3	150	0	3.7	0.10	16
AVG.	7.5						0	3.0	0.10	14

TOBY CREEK WATERSHED WEIR NUMBER TY-59 Strip mine on Cherry Run north of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*10-05-73	22	3.3	330	0	0.80	830	0	87	0.20	219
11-06-73	6	2.6	1000	0	120	2000	0	72	8.6	144
11-30-73	22	2.7	1700	0	117	1675	0	449	31	492
12-21-73	22	2.6	880	0	50	1625	0	232	13	429
01-17-74	880	2.8	800	0	39	1225	0	8448	411	12936
*02-21-74	50	3.0	94	0	80	1525	0	56	48	915
03-28-74	50	2.9	600	0	42	1375	0	360	25	825
05-07-74	50	2.9	840	0	49	1625	0	504	30	975
05-30-74	22	2.8	740	0	57	1300	0	195	15	343
*06-25-74	34	2.6	900	0	4.0	1925	0	367	1.6	785
07-24-74	22	2.7	1200	0	57	1475	0	317	15	389
08-27-74	12	3.1	774	0	81	1750	0	112	12	252
MIN.	6	2.6	600	0	39	1225	0	72	8.6	144
MAX.	880	3.1	1700	0	120	2000	0	8448	411	12936
AVG.	121						0	1188	62	1859

TOBY CREEK WATERSHED WEIR NUMBER TY-60 Strip mine on Cherry Run north of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*10-05-73	12	2.6	1100	0	120	2100	0	158	17	302
11-06-73	22	3.3	230	0	0.4	510	0	61	0.10	135
11-30-73	50	3.3	234	0	0.29	475	0	140	0.20	285
12-21-73	34	3.2	226	0	0.44	425	0	92	0.20	173
01-17-74	338	3.4	192	0	1.4	325	0	779	5.5	1318
02-21-74	22	3.5	364	0	0.74	125	0	96	0.20	33
*03-28-74	2	2.9	80	0	8.3	950	0	1.9	0.20	23
05-02-74	22	3.4	236	0	0.60	525	0	62	0.20	139
05-29-74	6	3.4	288	0	0.50	525	0	21	0.04	38
06-25-74	6	3.2	322	0	0.20	950	0	23	0.01	68
07-24-74	6	3.4	250	0	0.30	775	0	18	0.02	56
08-27-74	6	3.8	262	0	1.9	825	0	19	0.10	59
MIN.	6	3.2	192	0	0.20	125	0	18	0.01	33
MAX.	338	3.8	364	0	1.9	950	0	779	5.5	1318
AVG.	51						0	131	0.66	230

TOBY CREEK WATERSHED WEIR NUMBER TY-61 Springs on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	2	3.2	40	0	2.0	200	0	1.0	0.10	4.8
11-06-73	12	4.2	8	0	1.2	31	0	1.2	0.20	4.5
11-30-73	22	4.0	6	0	0.74	100	0	1.6	0.20	26
12-19-73	12	4.1	2	0	1.2	45	0	0.30	0.20	6.5
01-17-74	123	3.7	16	0	0.29	23	0	24	0.40	34
MIN.	2	3.2	2	0	0.29	23	0	0.3	0.10	4.5
MAX.	123	4.2	40	0	2.0	200	0	24	0.40	34
AVG.	34						0	5.6	0.22	15

TOBY CREEK WATERSHED WEIR NUMBER 61A Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*02-21-74	6	3.8	24	0	2.2	1425	0	1.7	0.20	103
03-28-74	12	4.1	4	0	0.71	30	0	0.60	0.10	4.3
05-02-74	22	4.4	6	0	NO SMALL BOTTLE	150	0	1.6	NO SMALL BOTTLE	40
05-23-74	28	4.1	4	0	1.0	27	0	1.3	0.30	9.1
06-20-74	2	3.6	24	0	5.8	150	0	0.60	0.10	3.6
*07-22-74	1	3.0	1300	0	35	275	0	16	0.40	3.3
08-19-74	1	3.1	100	0	41	300	0	1.2	0.50	3.6
MIN.	1	3.1	4	0	0.71	30	0	0.60	0.10	3.6
MAX.	28	4.4	100	0	41	300	0	1.6	0.50	40
AVG.	13						0	1.1	0.25	12

TOBY CREEK WATERSHED WEIR NUMBER 62 Gas well on Toby Creek northwest of Miola.

10-02-73	34	3.1	350	0	76	1200	0	143	31	490
11-06-73	34	2.9	340	0	91	900	0	139	37	367
11-30-73	34	2.9	400	0	70	525	0	163	29	214
12-21-73	34	2.8	200	0	68	450	0	82	28	184
01-17-74	193	3.2	160	0	24	405	0	371	57	938
*02-21-74	82	3.0	340	0	119	2250	0	335	116	2214
03-28-74	34	2.9	300	0	75	425	0	122	30	173
*05-02-74	70	3.1	320	0	4.5	675	0	269	3.8	567
05-23-74	123	3.0	220	0	61	550	0	325	90	812
06-20-74	34	2.9	340	0	82	1050	0	139	35	428
07-22-74	22	2.8	300	0	132	950	0	79	35	251
08-19-74	70	2.8	360	0	192	875	0	302	161	735
MIN.	22	2.8	160	0	24	405	0	79	28	173
MAX.	193	3.2	400	0	192	1200	0	371	161	938
AVG.	61						0	187	53	459

TOBY CREEK WATERSHED WEIR NUMBER TY-63 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	2	2.9	400	0	66	1300	0	9.6	1.6	31
11-06-73	12	2.8	340	0	130	1200	0	49	19	173
11-30-73	12	2.8	420	0	116	1100	0	61	17	158
12-21-73	34	2.8	220	0	47	425	0	90	19	173
01-17-74	6	2.8	300	0	64	950	0	22	4.6	68
02-21-74	4	3.0	322	0	167	175	0	16	8.0	8.4
03-28-74	6	2.7	380	0	145	775	0	27	11	56
05-02-74	6	2.9	340	0	28	1075	0	25	2.0	77
05-23-74	42	2.8	280	0	108	825	0	141	54	416
06-20-74	12	2.9	360	0	147	1325	0	52	21	191
07-22-74	12	2.7	400	0	126	1225	0	58	18	176
08-19-74	6	2.6	400	0	199	1125	0	29	14	81
MIN.	2	2.6	220	0	28	175	0	9.6	1.6	8.4
MAX.	42	3.0	420	0	199	1325	0	141	54	416
AVG.	13						0	48	16	134

TOBY CREEK WATERSHED WEIR NUMBER TY-64 Spring on Toby Creek northwest of Miola.

10-02-73	6	3.1	340	0	57	1200	0	25	4.1	86
11-06-73	12	2.8	220	0	100	940	0	32	14	135
11-30-73	12	2.8	380	0	85	800	0	55	12	115
12-19-73	12	3.0	440	0	61	900	0	63	8.8	130
01-17-74	28	3.2	94	0	24	325	0	32	8.2	109
02-21-74	6	2.7	202	0	134	825	0	15	9.6	59
03-28-74	2	2.9	200	0	52	700	0	4.8	1.3	17
05-02-74	12	3.0	140	0	13	675	0	20	1.8	97
05-23-74	34	2.8	180	0	62	600	0	73	26	245
06-20-74	6	2.8	320	0	58	1075	0	23	4.2	77
07-22-74	2	2.7	600	0	87	1050	0	14	2.1	25
08-19-74	4	2.7	380	0	192	1125	0	18	9.2	54
MIN.	2	2.7	94	0	13	325	0	4.8	1.3	17
MAX.	34	3.2	600	0	192	1200	0	73	26	245
AVG.	11						0	31	8.4	96

TOBY CREEK WATERSHED WEIR NUMBER TY-65 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	12	3.2	340	0	81	1300	0	49	12	187
11-06-73	6	2.7	300	0	180	1300	0	22	13	94
11-30-73	2	2.8	520	0	151	1160	0	13	3.6	28
12-19-73	6	2.9	600	0	68	1100	0	43	4.9	79
01-17-74	12	3.1	100	0	46	900	0	14	6.6	130
02-21-74	9	2.8	232	0	184	900	0	25	20	97
03-28-74	6	3.0	280	0	119	600	0	20	8.5	43
05-02-74	6	2.8	280	0	37	1175	0	20	2.7	85
05-23-74	123	2.8	240	0	100	650	0	354	148	959
06-20-74	6	2.9	380	0	218	1100	0	27	16	79
07-22-74	9	2.7	600	0	229	1100	0	65	25	119
08-19-74	9	2.8	400	0	191	1250	0	43	21	135
MIN.	2	2.7	100	0	37	600	0	13	2.7	28
MAX.	123	3.2	600	0	229	1300	0	354	148	959
AVG.	17						0	58	23	170

TOBY CREEK WATERSHED WEIR NUMBER TY-66 Spring on Toby Creek northwest of Miola.

10-02-73	6	3.2	380	0	190	1400	0	27	14	101
11-06-73	50	2.7	330	0	300	1300	0	198	180	780
11-30-73	42	2.7	620	0	200	625	0	313	101	315
12-19-73	34	2.8	580	0	72	1075	0	237	29	439
01-17-74	70	2.9	200	0	79	975	0	168	67	819
02-21-74	60	2.6	330	0	236	850	0	238	170	612
03-28-74	70	2.8	360	0	197	825	0	302	165	693
05-02-74	35	2.8	300	0	45	1150	0	126	19	483
05-23-74	94	2.8	320	0	170	900	0	361	192	1015
*06-20-74	42	3.0	420	0	214	175	0	212	108	88
07-22-74	60	2.9	700	0	261	1050	0	504	188	756
08-19-74	12	3.2	440	0	424	1125	0	63	61	162
MIN.	6	2.6	200	0	45	625	0	27	14	101
MAX.	94	3.2	700	0	424	1400	0	504	192	1015
AVG.	48						0	231	108	561

TOBY CREEK WATERSHED WEIR NUMBER TY-67 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	6	5.3	47	0	15	240	0	3.4	1.1	17
11-06-73	12	3.8	12	0	23	91	0	1.7	3.3	13
11-30-73	12	3.6	32	0	6.0	175	0	4.6	0.90	25
12-19-73	NO SAMPLE AVAILABLE - BROKEN									
01-17-74	12	4.5	8	2	3.2	54	0.30	1.2	0.50	7.8
02-21-74	6	3.4	36	0	12	200	0	2.6	0.80	14
03-28-74	6	4.2	14	0	6.2	55	0	1.0	0.50	4.0
05-01-74	9	3.9	12	NO SMALL BOTTLE		200	0	1.3	0	22
05-23-74	4	3.7	22	0	5.9	225	0	1.1	0.30	11
06-20-74	4	3.3	34	0	11	225	0	1.6	0.50	11
07-22-74	4	3.2	46	0	19	225	0	2.2	0.90	11
08-19-74	17	3.2	40	0	34	375	0	8.2	7.0	77
MIN.	4	3.2	8	0	3.2	54	0	1.0	0.30	4.0
MAX.	17	5.3	47	2	34	375	0.30	8.2	7.0	77
AVG.	8.4						0.03	2.6	1.4	19

TOBY CREEK WATERSHED WEIR NUMBER TY-68 Spring on Toby Creek northwest of Miola.

10-02-73	12	5.0	4	0	0.10	120	0	0.60	0.01	17
11-06-73	12	5.1	2	0	0.40	62	0	0.30	0.10	8.9
11-30-73	9	4.4	38	0	0.15	N/A	0	4.1	0.01	N/A
12-19-73	12	5.2	8	2	0.44	30	0.30	11	0.10	4.3
01-17-74	34	4.9	2	6	0.44	33	2.4	0.80	0.20	14
02-21-74	6	4.1	18	0	0.29	50	0	1.3	0.02	3.6
03-28-74	12	4.8	4	4	11	45	0.60	0.60	1.6	6.5
05-02-74	17	5.5	4	NO SMALL BOTTLE		200	2.0	0.80	NO SMALL BOTTLE	
05-23-74	17	4.5	10	0	0.20	49	0	2.0	0.04	10
06-20-74	2	4.8	6	6	0.50	150	0.10	0.10	0.01	3.6
07-22-74	4	4.4	20	0	17	175	0	1.0	0.80	0.40
08-19-74	12	4.4	4	0	31	375	0	0.60	4.5	54
MIN.	2	4.1	2	0		30	0	0.10	0.01	0.40
MAX.	34	5.5	38	6	31	375	2.4	11	4.5	54
AVG.	12						0.45	1.9	0.61	12

TOBY CREEK WATERSHED WEIR NUMBER 69 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-02-73	6	3.1	190	0	30	990	0	14	2.2	71
11-06-73	17	3.0	80	0	52	480	0	16	11	98
11-30-73	6	2.9	500	0	53	325	0	36	3.8	23
12-19-73	2	2.9	140	0	57	550	0	3.4	1.4	13
01-17-74	12	3.4	32	0	24	150	0	4.6	3.5	22
02-21-74	2	2.7	174	0	114	350	0	4.2	2.7	8.4
03-28-74	2	2.9	100	0	70	400	0	2.4	1.7	9.6
05-02-74	4	3.1	70	0	40	275	0	3.4	1.9	13
05-23-74	22	3.0	114	0	66	350	0	30	17	92
06-20-74	6	2.9	220	0	183	950	0	16	13	68
07-22-74	1	2.7	300	0	134	1250	0	3.6	1.6	15
08-19-74	1	2.4	240	0	111	1100	0	2.9	1.3	13
MIN.	1	2.4	32	0	24	150	0	2.4	1.3	8.4
MAX.	22	3.4	500	0	183	1250	0	36	17	98
AVG.	6.8						0	11	5.1	37

TOBY CREEK WATERSHED WEIR NUMBER 70 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-06-73	2	2.9	1000	0	16	2900	0	24	0.40	70
11-30-73	2	2.9	1600	0	17	2050	0	38	0.40	49
12-21-73	6	3.0	1000	0	11	1350	0	72	0.80	97
01-17-74	9	3.3	328	0	3.4	1025	0	35	0.40	111
02-21-74	1	2.9	1100	0	14	2050	0	13	0.20	25
03-28-74	2	3.0	1040	0	18	1575	0	25	0.40	38
05-08-74	2	3.1	804	0	8.0	525	0	19	0.20	13
05-23-74	6	3.0	1030	0	9.9	1825	0	74	0.70	131
06-20-74	2	3.0	1300	0	12	2625	0	31	0.10	63
07-22-74	1	2.6	1700	0	1.2	1850	0	20	0.01	22
08-19-74	1	2.5	1740	0	15	2450	0	21	0.20	29
MIN.	1	2.5	328	0	1.2	525	0	13	0.01	13
MAX.	9	3.3	1740	0	18	2900	0	74	0.80	131
AVG.	3.1						0	34	0.34	59

TOBY CREEK WATERSHED WEIR NUMBER TY-71 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-06-73	6	2.9	1100	0	16	2700	0	79	1.2	194
11-30-73	6	3.0	914	0	14	2025	0	66	1.0	146
12-21-73	6	3.0	870	0	10	1550	0	63	0.70	112
01-17-74	4	3.3	384	0	3.2	950	0	18	0.20	46
02-21-74	2	2.9	940	0	14	2225	0	23	0.30	53
03-28-74	4	3.0	1140	0	18	1600	0	55	0.90	77
05-06-74	2	3.2	704	0	6.2	1450	0	17	0.20	35
05-23-74	9	3.0	872	0	9.9	1550	0	94	1.1	167
06-20-74	1	3.0	1920	0	11	2750	0	23	0.10	33
*07-22-74	2	2.6	2400	0	12	1550	0	58	0.30	37
08-19-74	4	2.6	1840	0	14	2450	0	88	0.70	118
MIN.	1	2.6	384	0	3.2	950	0	17	0.10	33
MAX.	9	3.3	1920	0	18	2750	0	94	1.2	194
AVG.	4.4						0	53	0.64	98

TOBY CREEK WATERSHED WEIR NUMBER TY-72 Spring on Toby Creek northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-06-73	2	3.0	1000	0	13	2500	0	24	0.30	60
11-30-73	2	3.0	970	0	11	1800	0	23	0.30	43
12-21-73	4	3.2	774	0	7.6	1375	0	37	0.40	66
01-17-74	4	3.4	346	0	1.7	600	0	17	0.10	29
02-21-74	6	3.0	920	0	12	2025	0	66	0.90	146
03-28-74	12	3.0	1060	0	16	1825	0	153	2.3	263
*05-08-74	2	3.9	20	0	0.90	200	0	0.50	0.02	4.8
05-23-74	4	3.1	988	0	8.0	1675	0	47	0.40	80
06-20-74	2	3.1	1800	0	9.4	2250	0	43	0.20	54
07-22-74	2	2.7	1200	0	12	1850	0	29	0.30	44
08-19-74	2	2.7	1960	0	13	1500	0	47	0.30	36
MIN.	2	2.7	346	0	1.7	600	0	17	0.10	29
MAX.	12	3.4	1960	0	16	2500	0	153	2.3	263
AVG.	4.0						0	49	0.55	82

TOBY CREEK WATERSHED WEIR NUMBER TY-73 Intermittent small stream east of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
11-06-73	50	3.7	50	0	2.7	140	0	30	1.6	84
11-30-73	694	3.3	74	0	7.6	200	0	616	63	1666
12-21-73	2246	3.5	36	0	4.0	85	0	970	107	2291
*01-17-74	6190	3.1	102	0	23	200	0	7577	1673	14856
NEW LOCATIONS A, B & C										
02-19-74	10						0	41	9.7	61
03-29-74	261						0	218	44	484
05-06-74	38						0	114	17	134
05-24-74	109	TOTALS FOR TY-73A, TY-73B, and TY-73C					0	247	38	395
06-21-74	108						0	810	104	1105
07-22-74	9						0	77	8.5	110
08-23-74	4						0	18	1.1	18
MIN.	50	3.3	36	0	2.7	85	0	30	1.6	84
MAX.	2246	3.7	74	0	7.6	200	0	970	107	2291
AVG.	997						0	539	57	1347

TOBY CREEK WATERSHED WEIR NUMBER TY-73A Deep Mine on unnamed tributary to Step Creek south of Snydersburg.

02-19-74	NO SAMPLE AVAILABLE - BROKEN IN TRANSIT				161	0	0	0	0	0
03-29-74	34	2.6	400	0	86	825	0	163	35	337
05-06-74	12	2.8	680	0	99	675	0	98	14	97
05-24-74	22	2.6	500	0	93	650	0	132	24	172
06-21-74	94	2.7	700	0	90	950	0	790	101	1072
07-22-74	6	2.4	800	0	95	1175	0	58	6.8	85
08-23-74	1	2.5	800	0	78	825	0	9.6	0.90	9.9
MIN.	1	2.4	400	0	78	650	0	9.6	0.90	9.9
MAX.	94	2.8	800	0	161	1175	0	790	101	1072
AVG.	28						0	208	30	295

TOBY CREEK WATERSHED WEIR NUMBER TY-73B Spring on unnamed tributary to Step Creek south of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	6	2.5	540	0	134	800	0	39	9.6	58
03-29-74	34	3.2	20	0	9.2	135	0	8.2	3.8	55
05-06-74	4	2.9	200	0	39	350	0	9.6	1.9	17
05-24-74	17	2.6	400	0	62	375	0	82	13	77
06-21-74	2	2.7	620	0	80	800	0	15	1.9	19
07-22-74	2	2.5	800	0	67	900	0	19	1.6	22
08-23-74	1	3.1	76	0	6.2	300	0	0.90	0.10	3.6
MIN.	1	2.5	20	0	6.2	135	0	0.90	0.10	3.6
MAX.	34	3.2	800	0	134	900	0	82	13	77
AVG.	9.4						0	25	4.6	36

TOBY CREEK WATERSHED WEIR NUMBER TY-73C Intermittent small stream south of Snydersburg.

02-27-74	4	3.6	40	0	2.5	80	0	1.9	0.10	3.8
03-29-74	193	3.9	20	0	2.4	40	0	46	5.5	93
05-06-74	22	3.7	24	0	1.2	75	0	6.3	0.30	20
05-24-74	70	3.3	40	0	1.1	175	0	34	1.0	147
06-21-74	12	3.5	36	0	1.1	100	0	5.2	0.20	14
07-22-74	1	3.1	40	0	4.5	275	0	0.50	0.10	3.3
08-23-74	2	3.1	330	0	5.1	200	0	7.9	0.10	4.8
MIN.	1	3.1	20	0	1.1	40	0	0.50	0.10	3.3
MAX.	193	3.9	330	0	5.1	275	0	46	5.5	147
AVG.	43						0	15	1.0	41

TOBY CREEK WATERSHED WEIR NUMBER TY-74 Intermittent small stream south of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	50	3.8	67	0	4.0	300	0	40	2.4	180
11-06-73	6	3.6	59	0	3.2	280	0	4.2	0.20	20
11-30-73	12	3.5	66	0	5.6	100	0	9.5	0.80	14
12-21-73	NO SAMPLE AVAILABLE - BROKEN IN TRANSIT									
01-17-74	193	3.7	46	0	6.0	100	0	107	14	232
02-21-74	22	3.6	78	0	4.2	200	0	21	1.1	53
03-29-74	694	3.9	40	0	6.7	185	0	333	56	1541
05-06-74	193	3.7	64	0	11	150	0	148	25	347
05-24-74	124	3.3	90	0	13	150	0	133	20	221
06-21-74	12	3.5	62	0	15	200	0	8.9	2.2	29
07-22-74	1	3.0	200	0	13	325	0	2.4	0.20	3.9
08-27-74	1	3.6	84	0	21	150	0	1.0	0.20	1.8
MIN.	1	3.0	40	0	3.2	100	0	1.0	0.20	1.8
MAX.	694	3.9	200	0	21	325	0	333	56	1541
AVG.	119						0	73	11	240

TOBY CREEK WATERSHED WEIR NUMBER TY-75 Gas well on Step Creek southeast of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	156	3.5	330	0	210	810	0	618	393	1516
11-06-73	70	2.6	290	0	240	890	0	244	202	748
11-30-73	50	2.8	400	0	176	600	0	240	106	360
*12-21-73	50	2.8	22	0	66	700	0	13	40	420
01-17-74	60	3.1	394	0	74	725	0	284	54	522
02-21-74	60	2.8	236	0	197	450	0	170	142	324
03-29-74	123	2.9	240	0	269	550	0	354	397	812
05-06-74	22	2.9	240	0	146	NO ANALYSIS RECEIVED		63	39 NO ANALYSIS	
05-24-74	108	2.7	300	0	174	600	0	389	226	778
06-21-74	94	3.1	320	0	179	525	0	361	202	592
07-24-74	156	2.8	400	0	182	725	0	749	340	1357
08-23-74	42	2.9	500	0	238	900	0	252	120	454
MIN.	22	2.6	236	0	146	450	0	63	39	324
MAX.	156	3.5	500	0	269	900	0	749	397	1516
AVG.	85						0	339	202	746

TOBY CREEK WATERSHED WEIR NUMBER TY-76 Intermittent small stream northeast of Arthurs.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	70	2.8	470	0	56	500	0	395	47	420
11-06-73	397	2.6	460	0	56	530	0	2191	267	2530
11-30-73	284	2.9	620	0	53	350	0	2113	182	1193
12-21-73	1094	2.8	180	0	28	200	0	2363	372	2626
01-17-74	2246	3.0	200	0	15	225	0	5390	409	6064
02-21-74	193	2.7	404	0	42	300	0	936	97	695
05-06-74	NO SAMPLE AVAILABLE - NOT TAKEN									
*05-28-74	694	2.8	0	0	21	250	0	0	178	2082
06-21-74	123	2.9	300	0	25	350	0	443	37	517
07-24-74	70	2.7	800	0	30	475	0	672	26	399
08-23-74	1	2.6	500	0	15	425	0	6.0	0.20	5.1
MIN.	1	2.6	180	0	15	200	0	6.0	0.20	5.1
MAX.	2246	3.0	800	0	56	530	0	5390	409	6064
AVG.	517						0	1751	165	1673

TOBY CREEK WATERSHED WEIR NUMBER TY-77 Spring on Step Creek northeast of Arthurs.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-03-73	NO SAMPLE AVAILABLE - DRY									
11-06-73	2	4.8	6	0	0.10	77	0	0.20	0.002	1.8
11-30-73	2	4.6	8	2	0	200	0.10	0.20	0	4.8
12-21-73	6	4.4	4	0	0.15	15	0	0.30	0.01	1.1
01-17-74	12	4.8	4	6	0.29	35	0.90	0.60	0.04	5.0
02-21-74	4	4.1	18	0	0.29	30	0	0.90	0.01	1.4
03-29-74	6	4.8	4	4	0.24	40	0.30	0.30	0.02	2.9
05-06-74	6	5.7	2	6	0.10	125	0.40	0.20	0.007	9.0
05-30-74	6	4.8	6	2	0.10	23	0.20	0.40	0.007	1.7
06-21-74	2	4.8	4	4	0.20	225	0.10	0.10	0.004	5.4
07-24-74	1	4.6	10	2	0.40	150	0.02	0.10	0.004	1.8
08-27-74	2	4.9	22	12	0.10	175	0.30	0.50	0.002	4.2
MIN.	1	4.1	2	0	0	15	0	0.10	0	1.1
MAX.	12	5.7	22	12	0.40	225	0.90	0.90	0.04	9.0
AVG.	4.5						0.21	0.35	0.008	3.6

TOBY CREEK WATERSHED WEIR NUMBER TY-82 Gas well on Toby Creek west of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	34	3.0	980	0	570	2900	0	400	233	1183
11-06-73	34	3.0	870	0	590	3000	0	355	241	1224
11-30-73	42	2.9	2000	0	466	2225	0	1008	235	1121
12-19-73	34	2.8	1540	0	118	1950	0	628	48	796
01-21-74	50	3.2	966	0	242	2125	0	580	145	1275
02-21-74	42	2.9	268	0	757	1975	0	135	382	995
03-28-74	34	2.8	1280	0	747	2375	0	522	305	969
05-06-74	34	3.0	1100	0	342	1825	0	449	140	745
05-23-74	60	2.9	1000	0	423	1900	0	720	305	1368
06-20-74	42	3.1	820	0	499	1950	0	413	252	983
* 07-22-74	42	2.8	1400	0	568	1250	0	706	286	630
08-19-74	50	2.7	1180	0	914	2125	0	708	548	1275
MIN.	34	2.7	268	0	118	1825	0	135	48	745
MAX.	60	3.2	2000	0	914	3000	0	1008	548	1368
AVG.	41						0	538	258	1085

TOBY CREEK WATERSHED WEIR NUMBER TY-83 Spring on Toby Creek west of Miola

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	12	3.3	320	0	5.9	670	0	46	0.90	97
11-07-73	6	3.6	130	0	1.5	320	0	9.4	0.10	23
11-30-73	6	3.2	370	0	3.4	575	0	27	0.20	41
12-19-73	NO SAMPLE AVAILABLE - NOT TAKEN				0	0	0	0	0	0
01-21-74	6	3.5	158	0	1.1	475	0	11	0.10	34
02-21-74	12	3.4	306	0	2.4	550	0	44	0.40	79
03-28-74	12	3.2	284	0	2.0	400	0	41	0.30	58
05-06-74	6	3.3	200	0	1.4	400	0	14	0.10	29
05-23-74	42	3.3	288	0	2.4	450	0	145	1.2	227
06-20-74	2	3.3	340	0	6.5	550	0	8.2	0.20	13
07-22-74	2	3.1	384	0	6.6	850	0	9.2	0.20	20
08-19-74	2	2.8	460	0	11	1200	0	11	0.30	29
MIN.	2	2.8	130	0	1.1	320	0	8.2	0.10	13
MAX.	42	3.6	460	0	11	1200	0	145	1.2	227
AVG.	9.8						0	33	0.36	59

TOBY CREEK WATERSHED WEIR NUMBER TY-84 Strip mine on Toby Creek west of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	2	2.6	2700	0	95	5900	0	65	2.3	142
11-07-73	6	2.7	2500	0	84	5600	0	180	6.0	403
11-30-73	4	2.7	3100	0	85	4950	0	149	4.1	238
12-19-73	6	2.9	3100	0	52	5250	0	223	3.7	378
01-21-74	17	2.9	1400	0	45	3200	0	286	9.1	653
* 02-21-74	12	2.7	490	0	144	5275	0	71	21	760
03-28-74	22	2.7	2920	0	115	3775	0	771	30	997
05-01-74	6	2.9	3000	0	87	5000	0	216	6.3	360
05-23-74	60	2.7	2400	0	109	3725	0	1728	79	2682
06-20-74	12	2.7	2700	0	115	5025	0	389	17	724
07-22-74	12	2.4	4500	0	94	4450	0	648	14	641
08-19-74	2	2.4	3940	0	66	5000	0	95	1.6	120
MIN.	2	2.4	1400	0	45	3200	0	65	1.6	120
MAX.	60	2.9	4500	0	115	5900	0	1728	79	2682
AVG.	14						0	432	16	667

TOBY CREEK WATERSHED WEIR NUMBER TY-85 Strip mine on Toby Creek west of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	NO SAMPLE AVAILABLE - DRY									
11-07-73	34	3.6	2800	0	650	7000	0	DRY		
11-30-73	22	2.7	3600	0	477	4750	0	1142	265	2856
12-19-73	34	2.7	3720	0	126	5300	0	950	126	1254
01-21-74	50	2.7	2000	0	210	5250	0	1518	51	2162
* 02-21-74	50	2.7	730	0	576	5275	0	1200	126	3150
03-28-74	70	2.9	2300	0	457	5500	0	438	346	3165
05-07-74	50	2.7	3140	0	313	5250	0	1932	384	4620
05-28-74	42	2.6	3200	0	384	5375	0	1884	188	3150
06-21-74	22	2.8	2300	0	408	6000	0	1613	194	2709
07-26-74	34	2.5	3600	0	447	3450	0	607	108	1584
08-19-74	34	2.4	4700	0	945	4500	0	1469	182	1408
MIN.	22	2.4	2000	0	126	3450	0	1918	386	1836
MAX.	70	3.6	4700	0	945	7000	0	607	51	1254
AVG.	39						0	1932	386	4620
							0	1432	201	2473

TOBY CREEK WATERSHED WEIR NUMBER TY-86 Intermittent small stream southeast of Arthurs.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	6	3.5	130	0	3.0	230	0	9.4	0.20	17
11-07-73	12	3.6	130	0	1.5	320	0	19	0.20	46
11-30-73	70	3.5	130	0	1.4	525	0	109	1.1	441
12-19-73	12	3.6	114	0	2.5	265	0	16	0.40	38
01-21-74	94	3.7	86	0	0.74	425	0	97	0.90	479
02-27-74	22	3.7	106	0	0.89	100	0	28	0.20	26
03-28-74	28	3.5	104	0	1.3	325	0	35	0.40	109
05-02-74	34	3.7	50	0	0.60	150	0	20	0.20	61
05-23-74	108	3.6	74	0	1.4	150	0	96	1.8	194
06-20-74	9	3.4	130	0	3.2	300	0	14	0.30	32
07-22-74	6	2.9	194	0	3.6	375	0	14	0.30	27
08-19-74	4	2.9	220	0	4.4	450	0	11	0.20	22
MIN.	4	2.9	50	0	0.60	100	0	9.4	0.20	17
MAX.	108	3.7	220	0	4.4	525	0	109	1.8	479
AVG.	34						0	39	0.52	124

TOBY CREEK WATERSHED WEIR NUMBER TY-87 Intermittent small stream north of Miola.

10-04-73	42	4.1	28	0	1.30	91	0	14	0.70	46
11-07-73	22	4.7	12	0	0.10	72	0	3.2	0.03	19
11-30-73	34	4.3	10	0	0	450	0	4.1	0	184
12-19-73	22	4.6	20	4	0.44	45	1.1	5.3	0.10	12
01-21-74	397	4.5	12	4	0.29	195	19	57	1.4	929
02-21-74	70	4.5	14	0	0.15	70	0	12	0.10	59
03-28-74	42	4.4	8	0	0	35	0	4.0	0	18
05-07-74	70	4.5	6	0	0	40	0	5.0	0	34
05-30-74	12	4.5	8	0	0.10	49	0	1.2	0.01	7.1
06-21-74	2	4.5	6	0	0.10	64	0	0.10	0.002	1.5
07-22-74	1	4.3	10	0	1.0	275	0	0.10	0.01	3.3
08-27-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	4.1	6	0	0	35	0	0.10	0	1.5
MAX.	397	4.7	28	4	1.3	450	19	57	1.4	929
AVG.	65						1.8	9.6	0.20	119

TOBY CREEK WATERSHED WEIR NUMBER TY-88 Intermittent small stream north of Miola

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
11-07-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
11-30-73	70	3.0	242	0	29	275	0	203	24	231
12-19-73	70	3.1	294	0	24	355	0	247	21	298
01-30-75	338	3.1	190	0	19	425	0	771	77	1724
MIN.	70	3.0	190	0	19	275	0	203	21	231
MAX.	338	3.1	294	0	29	425	0	771	77	1724
AVG.	159						0	407	41	751

TOBY CREEK WATERSHED WEIR NUMBER TY-88A Spring on Tarkiln Run north of Miola.

01-21-74	4	4.6	4	4	0.29	45	0.20	0.20	0.01	2.2
02-21-74	6	4.1	14	0	0.44	40	0	1.0	0.03	2.9
03-28-74	4	4.6	4	2	1.3	70	0.10	0.20	0.10	3.4
05-08-74	2	4.7	2	2	0.30	40	0.10	0.10	0.007	1.0
05-30-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
06-21-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
07-22-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-27-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
01-30-75	12	5.2	8	6	1.1	300	0.90	1.2	0.20	43
MIN.	2	4.1	2	0	0.29	40	0.10	0.10	0.007	1.0
MAX.	12	5.2	14	6	1.3	300	0.90	1.2	0.20	43
AVG.	5.6							0.54	0.12	11

TOBY CREEK WATERSHED WEIR NUMBER TY-89 Strip mine on Tarkiln Run northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	22	2.6	2800	0	390	5600	0	739	103	1478
11-07-73	22	2.6	3600	0	620	7500	0	950	164	1980
11-30-73	17	2.6	4100	0	421	7000	0	836	86	1428
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
01-21-74	70	2.7	2500	0	160	4500	0	2100	134	3780
02-22-74	50	2.8	3400	0	393	2875	0	2040	236	1725
03-28-74	22	2.8	3500	0	241	5625	0	924	64	1485
05-08-74	34	2.7	3740	0	318	5375	0	1526	130	2193
05-29-74	22	2.6	4660	0	410	5500	0	1230	108	1452
06-21-74	17	2.7	4420	0	394	7400	0	902	80	1510
07-26-74	9	2.5	5900	0	431	4050	0	637	47	437
08-27-74	22	3.0	7400	0	420	6500	0	1954	111	1716
MIN.	9	2.5	2500	0	160	2875	0	637	47	437
MAX.	70	3.0	7400	0	620	7500	0	2100	236	3780
AVG.	28						0	1086	115	1744

TOBY CREEK WATERSHED WEIR NUMBER TY-90 Strip mine on Tarkiln Run northwest of Miola.

DATE	GPM	pH	ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-04-73	12	2.6	3400	0	630	5700	0	490	91	821
11-07-73	12	2.7	3200	0	590	5200	0	461	85	749
11-30-73	12	2.6	4300	0	434	5250	0	619	62	756
12-19-73	6	2.8	3780	0	118	5250	0	272	8.5	378
01-21-74	9	2.7	2200	0	150	3700	0	238	16	400
02-22-74	9	2.8	3040	0	515	3125	0	328	56	338
03-28-74	9	2.8	3100	0	544	3750	0	335	59	405
05-08-74	12	2.7	2940	0	322	NO ANALYSIS RECEIVED		423	NO ANALYSIS	
05-29-74	9	2.6	3720	0	404	4000	0	402	44	432
07-21-74	9	2.8	3380	0	359	3400	0	365	39	367
07-26-74	6	2.5	3200	0	442	2950	0	236	32	212
08-27-74	4	3.0	3500	0	361	4950	0	168	17	238
MIN.	4	2.5	2200	0	118	2950	0	168	8.5	212
MAX.	12	3.0	4300	0	630	5700	0	619	91	821
AVG.	8.8						0	356	47	463

TOBY CREEK WATERSHED WEIR NUMBER TY-91 Strip mine on Tarkiln Run northwest of Miola

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	50	2.7	3200	0	670	6700	0	1920	402	4020
11-07-73	22	2.6	3100	0	450	5000	0	818	119	1320
11-30-73	12	2.7	3600	0	324	5700	0	518	47	821
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
01-21-74	50	2.8	1800	0	97	3500	0	1080	58	2100
02-22-74	42	2.8	2060	0	90	3125	0	1038	45	1575
03-28-74	70	2.7	2000	0	63	3125	0	1680	53	2625
05-07-74	50	2.7	2140	0	67	3700	0	1284	40	2220
05-29-74	17	2.6	2500	0	91	3725	0	510	19	760
06-21-74	12	2.6	1980	0	83	3500	0	285	12	504
07-26-74	2	2.5	3200	0	81	3250	0	77	1.9	78
08-27-74	6	3.0	3400	0	77	4125	0	245	5.6	297
MIN.	2	2.5	1800	0	63	3125	0	77	1.9	78
MAX.	70	3.0	3600	0	670	6700	0	1920	402	4020
AVG.	30						0	859	73	1484

TOBY CREEK WATERSHED WEIR NUMBER TY-92 Strip mine on Tarkiln Run west of Miola.

DATE	GPM	pH	ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
11-07-73	22	2.6	2500	0	500	4100	0	660	132	1082
11-30-73	12	2.7	2200	0	291	3100	0	317	42	446
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
*01-21-74	123	2.9	900	0	54	1375	0	1328	80	2030
02-22-74	123	3.0	1040	0	155	1525	0	1535	229	2251
03-28-74	50	2.9	1200	0	288	2250	0	720	173	1350
05-07-74	60	2.7	1500	0	212	2100	0	1080	153	1512
05-29-74	12	2.5	1840	0	300	2375	0	265	43	342
06-21-74	17	2.6	1600	0	325	2500	0	326	66	510
07-26-74	12	2.5	2000	0	427	2000	0	288	62	288
08-27-74	12	3.0	2500	0	482	4000	0	360	69	576
MIN.	12	2.5	1040	0	155	1525	0	288	42	288
MAX.	123	3.0	2500	0	500	4100	0	1535	229	2251
AVG.	36						0	617	108	928

TOBY CREEK WATERSHED WEIR NUMBER TY-93 Gas well on Tarkiln Run west of Miola

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
11-07-73	12	2.6	2100	0	230	2500	0	302	33	360
11-30-73	6	2.8	1500	0	125	1650	0	108	9.0	119
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
*01-21-74	70	2.9	600	0	53	1225	0	504	44	1029
*02-22-74	70	3.0	1200	0	67	1100	0	1008	56	924
03-28-74	28	2.9	1100	0	390	1700	0	370	132	571
05-07-74	34	2.7	1300	0	189	1850	0	530	77	755
05-29-74	22	2.5	1840	0	320	2050	0	486	85	541
06-21-74	22	2.7	1600	0	409	2625	0	422	108	693
07-26-74	17	2.7	2400	0	680	2050	0	490	139	418
08-27-74	17	3.0	2900	0	554	2500	0	592	113	714
MIN.	6	2.5	1100	0	125	1650	0	108	9.0	119
MAX.	34	3.0	2900	0	680	2625	0	592	139	755
AVG.	20						0	413	87	521

TOBY CREEK WATERSHED WEIR NUMBER TY-94 Gas well on Tarkiln Run west of Miola

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	70	2.9	230	0	71	520	0	193	60	437
11-07-73	156	3.2	150	0	32	350	0	281	60	655
11-30-73	123	3.1	600	0	27	425	0	886	40	627
12-19-73	123	3.1	140	0	29	305	0	207	43	450
01-21-74	694	3.4	118	0	12	300	0	983	97	2498
02-22-74	34	3.2	140	0	38	200	0	57	16	82
03-28-74	42	3.4	170	0	33	275	0	86	17	139
05-01-74	123	3.3	114	0	19	400	0	168	29	590
05-29-74	50	2.8	160	0	62	425	0	96	37	255
06-24-74	22	2.8	200	0	107	725	0	53	28	191
07-23-74	17	2.4	400	0	142	1000	0	82	29	204
08-28-74	70	3.0	240	0	36	450	0	202	30	378
MIN.	17	2.4	114	0	12	200	0	53	16	82
MAX.	694	3.4	600	0	142	1000	0	983	97	2498
AVG.	127						0	274	40	542

TOBY CREEK WATERSHED WEIR NUMBER 95 Spring on unnamed tributary to Toby Creek southwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	1	3.6	91	0	1.4	140	0	1.1	0.02	1.7
11-07-73	1	3.8	76	0	0.60	160	0	0.90	0.007	1.9
11-30-73	2	3.7	92	0	0.44	150	0	2.2	0.01	3.6
12-19-73	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
01-21-74	2	3.7	124	0	0.59	225	0	3.0	0.01	5.4
02-22-74	2	3.8	78	0	0.44	150	0	1.9	0.01	3.6
03-28-74	1	3.6	80	0	0	125	0	1.0	0	1.5
05-07-74	1	3.7	72	0	0.10	150	0	1.9	0.001	1.8
05-29-74	2	3.6	76	0	0.40	250	0	1.8	0.009	6.0
06-21-74	1	3.5	70	0	0.30	150	0	0.80	0.003	1.8
07-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-28-74	1	3.8	46	0	0.60	250	0	0.60	0.007	3.0
MIN.	1	3.5	46	0	0	125	0	0.60	0	1.5
MAX.	2	3.8	124	0	1.4	250	0	3.0	0.01	6.0
AVG.	1.4						0	1.4	0.008	3.0

TOBY CREEK WATERSHED WEIR NUMBER 96 Strip on unnamed tributary to Toby Creek southwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-05-73	6	4.7	6	0	0.10	12	0	0.40	0.007	0.90
11-07-73	70	4.8	6	0	0.10	38	0	5.0	0.09	32
11-30-73	22	4.0	10	0	0	150	0	2.6	0	40
12-19-73	12	4.4	2	0	0.15	40	0	0.30	0.02	5.8
01-21-74	123	4.2	18	0	0.44	59	0	27	0.70	87
02-22-74	50	4.1	20	0	2.5	225	0	12	1.5	135
03-28-74	50	4.0	16	0	0.44	20	0	9.6	0.30	12
05-07-74	50	4.2	8	0	0.40	43	0	4.8	0.20	26
05-29-74	12	4.5	6	0	0	14	0	0.90	0	2.0
06-20-74	12	3.9	14	0	0.60	150	0	2.0	0.10	22
07-23-74	6	3.6	18	0	1.0	175	0	1.3	0.10	13
*08-28-74	22	3.5	120	0	5.0	375	0	32	1.3	99
MIN.	6	3.6	2	0	0	12	0	0.30	0	0.90
MAX.	123	4.8	20	0	2.5	225	0	27	1.5	135
AVG.	38						0	6.0	0.25	34

TOBY CREEK WATERSHED WEIR NUMBER 97 Gas well on Toby Creek southeast of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*10-09-73	12	3.3	310	0	210	1100	0	45	30	158
*11-07-73	2	2.8	190	0	110	710	0	4.6	2.6	17
11-30-73	12	3.0	400	0	17	100	0	58	2.4	14
12-19-73	6	3.4	108	0	21	245	0	7.8	1.5	18
01-21-74	50	3.8	56	0	29	175	0	34	17	105
02-26-74	22	3.6	86	0	9.4	150	0	23	2.5	40
03-28-74	9	3.6	144	0	6.4	300	0	16	0.70	32
05-06-74	6	3.5	120	0	7.5	175	0	8.6	0.60	13
*05-24-74	6	3.0	134	0	0.10	175	0	9.6	0.007	13
06-25-74	2	2.8	240	0	41	525	0	5.8	1.0	13
07-22-74	4	2.8	300	0	28	375	0	14	1.3	18
09-04-74	4	2.9	500	0	20	425	0	24	1.0	20
MIN.	2	2.8	56	0	6.4	100	0	5.8	0.60	13
MAX.	50	3.8	500	0	41	525	0	58	17	105
AVG.	13						0	21	3.1	30

TOBY CREEK WATERSHED WEIR NUMBER TY-98 Gas well on Toby Creek southeast of Leeper.

10-11-73	2	2.7	310	0	180	1000	0	7.4	4.3	24
11-07-73	22	2.8	270	0	210	1000	0	71	55	264
11-30-73	6	2.6	500	0	166	775	0	36	12	56
12-19-73	12	2.9	280	0	66	825	0	40	80	119
01-21-74	193	3.0	200	0	57	450	0	463	132	1042
02-26-74	70	2.9	300	0	217	575	0	252	183	483
03-28-74	50	3.4	258	0	263	775	0	155	158	465
05-07-74	22	3.4	300	0	121	600	0	79	31	158
05-24-74	17	2.7	240	0	146	600	0	49	30	122
06-25-74	6	2.8	500	0	130	1175	0	36	9.3	85
07-22-74	6	2.5	400	0	180	875	0	29	13	63
09-04-74	6	2.9	500	0	178	1300	0	36	13	94
MIN.	2	2.5	200	0	57	450	0	7.4	4.3	24
MAX.	193	3.4	500	0	263	1300	0	463	183	1042
AVG.	34						0	104	54	248

TOBY CREEK WATERSHED WEIR NUMBER TY-99 Gas well on Toby Creek southeast of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-11-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-07-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
11-30-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
12-19-73			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
*01-21-74	2	3.5	234	0	4.0	185	0	5.6	0.10	4.4
02-26-74			NO SAMPLE AVAILABLE - DRY	0	0	0	0	0	0	0
03-28-74	1	3.4	212	0	24	450	0	2.5	0.30	5.4
05-06-74	2	3.2	100	0	19	275	0	2.4	0.50	6.6
05-24-74	2	3.0	180	0	22	225	0	4.3	0.50	5.4
06-25-74	2	2.9	200	0	66	750	0	4.8	1.6	18
07-22-74	2	2.6	400	0	73	750	0	9.6	1.7	18
09-04-74	2	2.8	400	0	47	675	0	9.6	1.1	16
MIN.	1	2.6	100	0	19	225	0	2.4	0.30	5.4
MAX.	2	3.4	400	0	73	750	0	9.6	1.7	18
AVG.	1.8						0	5.5	0.95	12

TOBY CREEK WATERSHED WEIR NUMBER TY-100 Spring on Toby Creek southeast of Leeper

10-11-73	1	3.9	190	0	0.30	400	0	2.3	0.003	4.8
11-07-73	4	3.9	120	0	0.10	320	0	5.8	0.004	15
11-30-73	2	3.6	280	0	0	225	0	6.7	0	5.4
12-19-73	4	3.9	112	0	0.15	240	0	5.4	0.007	12
01-21-74	42	4.0	76	0	0.15	185	0	38	0.10	93
02-26-74	12	4.0	98	0	0.15	150	0	14	0.02	22
03-28-74	9	3.5	170	0	0	300	0	18	0	32
05-07-74	4	3.9	136	0	0.10	225	0	6.5	0.004	11
05-24-74	6	3.7	152	0	0.10	225	0	11	0.007	16
06-25-74	2	3.7	124	0	0.10	375	0	3.0	0.002	9.0
07-22-74	4	3.6	134	0	0.60	350	0	6.4	0.03	17
09-04-74	4	3.6	124	0	0	300	0	6.0	0	14
MIN.	1	3.5	76	0	0	150	0	2.3	0	4.8
MAX.	42	4.0	280	0	0.60	400	0	38	0.10	93
AVG.	7.8						0	10	0.01	21

TOBY CREEK WATERSHED WEIR NUMBER TY-101 Spring on Toby Creek southeast of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-11-73	2	4.1	100	0	0.80	310	0	2.4	0.02	7.4
11-07-73	2	4.0	92	0	0.80	240	0	2.2	0.02	5.8
11-30-73	4	3.7	120	0	0.59	150	0	5.8	0.03	7.2
12-21-73	4	4.0	74	0	0.44	225	0	3.6	0.02	11
01-21-74	50	4.1	64	0	0.29	185	0	38	0.17	111
02-26-74	9	3.9	94	0	0.44	200	0	10	0.05	22
03-28-74	6	3.6	128	0	0.44	275	0	9.2	0.03	20
05-08-74	6	4.0	80	0	0.50	125	0	5.8	0.04	9.0
05-24-74	6	3.6	112	0	1.3	150	0	8.1	0.09	11
06-25-74	4	3.8	72	0	2.8	300	0	3.5	0.13	14
07-22-74	4	3.6	90	0	0.50	250	0	4.3	0.02	12
09-04-74	6	3.6	104	0	0.70	300	0	7.5	0.05	22
MIN.	2	3.6	64	0	0.29	125	0	2.2	0.02	5.8
MAX.	50	4.1	128	0	2.8	310	0	38	0.17	111
AVG.	8.6						0	8.4	0.06	21

TOBY CREEK WATERSHED WEIR NUMBER TY-102 Spring on Toby Creek southeast of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
10-11-73	2	4.3	69	0	1.5	300	0	1.7	0.04	7.2
11-07-73	2	4.2	58	0	0.20	240	0	1.4	0.005	5.8
11-30-73	2	4.0	70	0	0.29	200	0	1.7	0.007	4.8
12-21-73		NO SAMPLE AVAILABLE - FROZEN		0	0	0	0	0	0	0
01-21-74	17	4.2	42	0	0.15	125	0	8.6	0.03	26
02-26-74	4	4.3	46	0	0.15	200	0	2.2	0.007	9.6
03-28-74	4	4.1	44	0	0	175	0	2.1	0	8.4
05-06-74	4	4.0	28	0	0.60	150	0	1.3	0.03	7.2
05-24-74	4	4.1	24	0	0	100	0	1.2	0	4.8
06-25-74	4	3.2	60	0	0.10	200	0	2.9	0.005	9.6
07-22-74	2	3.8	36	0	0.10	275	0	0.90	0.002	6.6
09-05-74	4	3.9	14	0	1.0	300	0	0.70	0.05	14
MIN.	2	3.2	14	0	0	100	0	0.70	0	4.8
MAX.	17	4.3	70	0	1.5	300	0	8.6	0.05	26
AVG.	4.5						0	2.2	0.02	9.4

TOBY CREEK WATERSHED WEIR NUMBER TY-103 Strip mine on Rapp Run near the mouth of Toby Creek.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-07-73	6	2.8	1200	0	61	1900	0	86	4.4	137
11-30-73	12	2.7	1200	0	85	1650	0	173	12	238
12-21-73	70	2.9	1040	0	43	1525	0	874	36	1281
01-21-74	70	2.9	600	0	34	1175	0	504	29	987
02-26-74	12	2.9	800	0	34	1075	0	115	5.0	155
03-29-74	17	2.9	900	0	19	950	0	184	3.8	194
05-09-74	12	3.0	680	0	19	850	0	98	2.8	122
05-30-74	2	2.8	720	0	38	1075	0	17	0.90	26
06-25-74	6	3.0	390	0	10	950	0	28	0.70	68
07-23-74	2	2.6	662	0	19	1250	0	16	0.50	30
08-28-74	2	2.8	760	0	16	1375	0	18	0.40	33
MIN.	2	2.6	390	0	10	850	0	16	0.40	26
MAX.	70	3.0	1200	0	85	1900	0	874	36	1281
AVG.	19						0	192	8.6	297

TOBY CREEK WATERSHED WEIR NUMBER TY-104 Strip mine on Rapp Run near the mouth of Toby Creek.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-07-73	34	2.7	2300	0	220	4000	0	938	90	1632
11-30-73	28	2.7	1700	0	176	3050	0	571	59	1025
12-21-73	22	2.8	1640	0	62	2775	0	433	17	733
01-21-74	193	2.8	1200	0	70	2400	0	2779	163	5558
02-26-74	34	2.9	1600	0	49	3150	0	653	20	1285
03-29-74	50	2.9	1200	0	95	3000	0	720	57	1800
05-09-74	17	2.8	1720	0	111	2100	0	351	23	428
05-30-74	9	2.7	1400	0	114	2300	0	151	12	248
06-25-74	22	2.7	1640	0	108	3500	0	433	29	924
07-23-74	9	2.5	1700	0	175	3900	0	184	19	421
08-28-74	12	2.7	2420	0	184	2300	0	349	27	331
MIN.	9	2.5	1200	0	49	2100	0	151	12	248
MAX.	193	2.9	2420	0	220	4000	0	2779	163	5558
AVG.	39						0	687	47	1308

TOBY CREEK WATERSHED WEIR NUMBER TY-105 Strip Mine on Rapp Run near mouth of Toby Creek

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-07-73	6	2.7	2100	0	180	3100	0	151	13	223
11-30-73	2	2.7	2000	0	161	2650	0	48	3.9	64
12-19-73	6	2.7	1760	0	64	2475	0	127	4.6	178
01-21-74	34	2.9	1100	0	64	1825	0	449	26	745
02-26-74	6	2.9	1660	0	124	2150	0	120	8.9	155
03-29-74	6	2.8	2600	0	60	1425	0	187	4.3	103
05-09-74	6	2.9	1540	0	73	1900	0	111	5.2	137
05-30-74	22	2.7	1320	0	79	1800	0	349	21	475
06-25-74	2	2.8	1700	0	75	2200	0	41	1.8	53
07-23-74	4	2.6	1600	0	80	2275	0	77	3.8	109
08-28-74	2	2.8	1600	0	64	1975	0	38	1.5	47
MIN.	2	2.6	1100	0	64	1425	0	38	1.5	47
MAX.	34	2.9	2600	0	180	3100	0	449	26	475
AVG.	8.7						0	154	8.5	208

TOBY CREEK WATERSHED WEIR NUMBER TY-106 Strip mine on unnamed tributary to Toby Creek near mouth of Toby Creek

11-07-73	156	2.6	4000	0	620	7400	0	7488	1161	13853
11-30-73	156	2.7	3000	0	396	4400	0	5616	741	8237
12-19-73	156	2.6	3440	0	112	5250	0	6440	209	9828
01-21-74	462	2.7	2000	0	164	4375	0	11088	910	24255
02-26-74	193	2.8	3220	0	486	4975	0	7458	1125	11522
*03-29-74	236	2.7	100	0	226	5250	0	283	641	14868
05-09-74	193	2.7	3120	0	291	4950	0	7226	674	11464
05-30-74	123	2.6	2400	0	262	3500	0	3542	387	5166
06-25-74	193	2.7	2400	0	290	5000	0	5558	672	11580
07-23-74	193	2.5	3600	0	455	2700	0	8338	1054	6253
08-28-74	123	2.7	3600	0	377	2400	0	5314	557	3542
MIN.	123	2.5	2000	0	112	2400	0	3542	209	3542
MAX.	462	2.8	4000	0	620	7400	0	11088	1161	24255
AVG.	195						0	6807	749	10570

TOBY CREEK WATERSHED WEIR NUMBER TY-107 Strip mine on Toby Creek south of Arthurs.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
11-07-73	2	2.9	1300	0	59	2600	0	31	1.4	62
11-30-73	2	2.9	1500	0	60	2750	0	36	1.4	66
12-19-73	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
01-21-74	22	3.0	900	0	36	1725	0	238	1.4	455
02-22-74	6	3.1	518	0	24	1125	0	37	1.7	81
*03-28-74	6	3.0	1680	0	27	1875	0	121	1.9	135
05-06-74	6	3.1	840	0	18	2225	0	61	1.3	160
05-30-74	6	2.9	940	0	26	1600	0	68	1.9	115
06-20-74	6	2.9	960	0	27	1725	0	69	1.9	124
07-23-74	1	2.7	2000	0	27	2475	0	24	0.30	30
08-28-74	1	3.2	920	0	15	1800	0	11	0.20	22
MIN.	1	2.7	518	0	15	1125	0	11	0.20	22
MAX.	22	3.2	2000	0	60	2750	0	238	1.9	455
AVG.	5.8						0	64	2.2	124

TOBY CREEK WATERSHED WEIR NUMBER TY-108 Spring on unnamed tributary to Toby Creek southwest of Crown

01-21-74	9	4.3	32	0	0.29	80	0	3.5	0.03	8.6
02-26-74	17	3.1	76	0	0.29	100	0	16	0.06	20
03-26-74	6	4.3	30	0	0	80	0	2.2	0	5.8
05-01-74	17	4.3	30	0	NO SMALL BOTTLE	175	0	6.1	NO SMALL BOTTLE	36
05-28-74	2	4.2	30	0	1.9	225	0	0.70	0.05	5.4
06-25-74	4	4.1	90	0	0	400	0	4.3	0	19
07-22-74	6	3.9	60	0	1.4	275	0	4.3	0.10	20
*08-26-74	4	5.3	110	14	0.40	225	0.90	5.3	0.02	11
09-30-74	2	4.1	90	0	0	225	0	2.2	0	5.4
MIN.	2	3.1	30	0	0	80	0	0.70	0	5.4
MAX.	17	4.3	90	0	1.9	400	0	16	0.10	36
AVG.	6.6						0	4.7	0.04	12

TOBY CREEK WATERSHED WEIR NUMBER TY-109 Spring on unnamed tributary to Toby Creek southwest of Crown.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-26-74	4	4.1	70	0	0	200	0	3.4	0	9.6
03-26-74	12	4.0	88	0	0	130	0	13	0	19
05-01-74	6	4.1	72	0	0	175	0	5.2	0	13
05-23-74	6	4.0	90	0	0	100	0	6.5	0	7.2
06-25-74	2	4.0	170	0	0.50	350	0	4.1	0.01	8.4
07-22-74	2	3.7	134	0	0.60	375	0	3.2	0.01	9.0
*08-26-74	4	4.1	154	14	0.20	250	0.70	7.4	0.01	12
09-30-74	6	4.0	152	0	0	375	0	11	0	27
MIN.	2	3.7	70	0	0	100	0	3.2	0	7.2
MAX.	12	4.1	170	0	0.60	375	0	13	0.01	27
AVG.	5.4						0	6.6	0.003	13

TOBY CREEK WATERSHED WEIR NUMBER TY-110 Deep and strip mine on unnamed tributary to Henry Run northwest of Cooks Corner.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	2	2.5	500	0	42	575	0	12	1.0	14
02-27-74	2	3.0	314	0	24	350	0	7.5	0.60	8.4
03-26-74	2	2.8	400	0	23	350	0	9.6	0.60	8.4
05-01-74	6	3.0	380	0	9.2	300	0	27	0.70	22
05-23-74	12	3.0	196	0	7.4	275	0	28	0.90	40
06-25-74	1	3.0	440	0	30	800	0	5.3	0.40	9.6
07-22-74	NO SAMPLE AVAILABLE - DRY				0	0	0	0	0	0
08-23-74	NO SAMPLE AVAILABLE - DRY				0	0	0	0	0	0
MIN.	1	2.5	196	0	7.4	275	0	5.3	0.40	8.4
MAX.	12	3.0	500	0	42	800	0	28	1.0	40
AVG.	4.2						0	15	0.73	17

TOBY CREEK WATERSHED WEIR TY-112 Strip mine on unnamed tributary to Toby Creek southwest of Cooks Corners.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	2	3.0	450	0	41	1225	0	11	1.0	29
03-28-74	1	2.8	740	0	62	1075	0	8.9	0.80	13
*05-01-74	1	3.1	380	0	5.8	1075	0	4.6	0.10	13
05-28-74	1	2.8	720	0	39	1075	0	8.6	0.50	13
*06-25-74	1	3.3	732	0	3.1	1850	0	8.8	0.04	22
*07-24-74	2	3.2	366	0	8.8	1450	0	8.8	0.20	35
09-04-74	2	2.8	600	0	32	1225	0	14	0.80	29
MIN.	1	2.8	450	0	32	1075	0	8.6	0.50	13
MAX.	2	3.0	740	0	62	1225	0	14	1.0	29
AVG.	1.5						0	11	0.78	21

TOBY CREEK WATERSHED WEIR NUMBER TY-113 Strip mine on unnamed tributary to Toby Creek southwest of Cooks Corners.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-26-74	17	3.1	330	0	89	2875	0	67	18	587
04-04-74	34	2.9	600	0	77	2925	0	245	31	1193
*05-01-74	50	3.0	640	0	57	200	0	384	34	120
05-28-74	34	2.9	560	0	78	2425	0	229	32	989
06-26-74	17	3.2	600	0	84	2525	0	122	17	515
07-24-74	2	2.8	700	0	124	3125	0	17	3.0	75
09-05-74	6	2.5	1000	0	NO LITTLE BOTTLE 3500		0	72NO LITTLE BOTTLE		252
MIN.	2	2.5	330	0	77	2425	0	17	3.0	75
MAX.	34	3.2	1000	0	124	3500	0	245	32	1193
AVG.	18						0	125	20	602

TOBY CREEK WATERSHED WEIR NUMBER TY-114 Strip mine on Toby Creek south west of Cooks Corners

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	2	3.1	294	0	82	2275	0	7.1	2.0	55
03-26-74	6	3.8	740	0	526	2875	0	53	38	207
05-02-74	12	3.4	620	0	155	3375	0	89	22	486
05-24-74	6	3.0	680	0	211	3500	0	49	15	252
06-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-24-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-23-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	6	3.0	620	0	155	2875	0	49	15	207
MAX.	12	3.8	740	0	526	3500	0	89	38	486
AVG.	8.0						0	64	25	315

TOBY CREEK WATERSHED WEIR NUMBER TY-115 Spring on Toby Creek northwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	34	4.5	20	0	0	200	0	8.2	0	82
03-28-74	34	4.6	8	2	0	70	.80	3.3	0	29
05-02-74	50	4.6	40	2	0	225	1.2	24	0	135
05-24-74	70	4.4	10	0	0.40	225	0	8.4	0.30	189
06-25-74	22	4.3	30	0	1.0	300	0	7.9	0.30	79
07-22-74	22	4.1	30	0	0	425	0	7.9	0	112
08-23-74	4	4.1	50	0	0	1200	0	2.4	0	58
MIN.	4	4.1	8	0	0	70	0	2.4	0	29
MAX.	70	4.6	50	2	1.0	1200	1.2	24	0.30	189
AVG.	34						0.29	8.9	0.09	98

TOBY CREEK WATERSHED WEIR NUMBER TY-116 Deep mine, strip mine, and spring on unnamed tributary to Toby Creek southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	22	3.6	184	0	0.59	450	0	47	0.16	119
04-01-74	24	MOVED WEIR. SEE WEIRS TY-116A and TY-116B						87	0.20	126
05-10-74	29							78	0.20	188
05-24-74	67							145	0.30	641
06-20-74	19	TOTALS FOR TY-116A and TY-116B						55	0.22	173
07-22-74	43							58	0.42	204
08-23-74	2							3.2	0.108	14

TOBY CREEK WATERSHED WEIR NUMBER TY-116-A Deep and strip mine on unnamed tributary to Toby Creek southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-01-74	12	3.3	220	0	0.48	225	0	32	0.10	32
05-10-74	12	3.4	144	0	0.40	350	0	21	0.10	50
05-24-74	17	3.3	120	0	0.70	275	0	25	0.10	56
06-20-74	2	3.1	130	0	1.0	225	0	3.1	0.02	5.4
07-22-74	42	3.2	110	0	0.90	375	0	55	0.40	189
08-23-74	1	3.4	84	0	0.70	275	0	1.0	0.008	3.3
MIN.	1	3.1	84	0	0.40	225	0	1.0	0.008	3.3
MAX.	42	3.4	220	0	1.0	375	0	55	0.40	189
AVG.	14						0	23	0.12	56

TOBY CREEK WATERSHED WEIR NUMBER TY-116-B Strip mine and spring on unnamed tributary to Toby Creek southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-01-74	12	3.6	380	0	0.48	650	0	55	0.10	94
05-10-74	17	3.7	278	0	0.40	675	0	57	0.10	138
05-24-74	50	3.5	200	0	0.40	975	0	120	0.20	585
06-20-74	17	3.4	254	0	0.90	825	0	52	0.20	168
07-22-74	1	3.3	228	0	1.7	1225	0	2.7	0.02	15
08-23-74	1	3.3	180	0	6.5	925	0	2.2	0.10	11
MIN.	1	3.3	180	0	0.40	650	0	2.2	0.02	11
MAX.	50	3.7	380	0	6.5	1225	0	120	0.20	585
AVG.	16						0	48	0.12	168

TOBY CREEK WATERSHED WEIR NUMBER TY-117 Strip mine on unnamed tributary to Engle Run northwest of Helen Furnace.

02-27-74	4	3.0	510	0	41	1775	0	25	1.9	85
03-28-74	6	2.9	800	0	30	1450	0	58	2.1	104
05-02-74	4	2.8	680	0	17	1550	0	33	0.80	74
*05-24-74	1	2.5	980	0	167	825	0	12	2.0	9.9
06-20-74	1	2.9	474	0	25	1650	0	5.7	0.30	20
07-22-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	2.8	474	0	17	1450	0	5.7	0.30	20
MAX.	6	3.0	800	0	41	1775	0	58	2.1	104
AVG.	3.8						0	30	1.2	71

TOBY CREEK WATERSHED WEIR NUMBER TY-118 Strip mine on unnamed tributary to Toby Creek southeast of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	NO SAMPLE AVAILABLE - FROZEN			0	0	0	0	0	0	0
03-28-74	1	3.0	378	0	8	550	1	4.5	0.10	6.6
05-08-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
05-24-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
06-20-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
07-22-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	3.0	378	0	8	550	0	4.5	0.10	6.6
MAX.	1	3.0	378	0	8	550	0	4.5	0.10	6.6
AVG.	1						0	4.5	0.10	6.6

TOBY CREEK WATERSHED WEIR NUMBER TY-119 Deep Mine on unnamed tributary to Step Run east of Lucinda.

*02-21-74	2	2.6	790	0	350	1625	0	19	8.4	39
03-28-74	2	2.6	1080	0	95	1150	0	26	2.3	28
05-09-74	2	3.3	110	0	14	125	0	2.6	0.30	3.0
05-24-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
06-25-74	1	4.4	110	0	19	175	0	1.3	0.20	2.1
07-22-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	2.6	110	0	14	125	0	1.3	0.20	2.1
MAX.	2	4.4	1080	0	95	1150	0	26	2.3	28
AVG.	1.7						0	10	0.93	11

TOBY CREEK WATERSHED WEIR NUMBER TY-120 Intermittent small stream east of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-21-74	4	4.6	16	2	0.15	225	0.10	0.80	0.007	11
03-27-74	17	4.6	10	2	0	70	0.40	2.0	0	14
05-03-74	6	4.7	6	2	0.10	70	0.10	0.40	0.007	5.0
05-24-74	4	4.2	10	0	0	225	0	0.50	0	11
06-24-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-22-74	1	4.1	24	0	0.10	325	0	0.30	0.001	3.9
*08-26-74	2	4.4	36	110	0.60	225	2.6	0.90	0.01	0.10
09-30-74	6	4.1	28	0	1.8	275	0	2.0	0.10	20
MIN.	1	4.1	6	0	0	70	0	0.30	0	3.9
MAX.	17	4.7	28	2	1.8	325	0.40	2.0	0.10	20
AVG.	6.3						0.10	1.0	0.02	11

TOBY CREEK WATERSHED WEIR NUMBER TY-121 Intermittent small stream southeast of Lucinda.

02-19-74	50	3.7	18	0	0.74	40	0	11	0.50	24
02-27-74	42	4.2	14	0	0.29	100	0	7.1	0.20	50
04-01-74	50	4.1	12	0	0	30	0	7.2	0	18
05-09-74	123	4.1	20	0	0.60	30	0	30	0.90	44
05-24-74	123	3.8	20	0	0.80	150	0	30	1.2	221
06-20-74	12	3.7	20	0	1.1	100	0	2.9	0.20	14
07-22-74	17	3.4	20	0	0.30	250	0	4.1	0.10	51
08-23-74	12	3.5	20	0	1.9	150	0	2.9	0.30	22
MIN.	12	3.4	12	0	0	30	0	2.9	0	14
MAX.	123	4.2	20	0	1.9	250	0	30	1.2	221
AVG.	54						0	12	0.42	56

TOBY CREEK WATERSHED WEIR NUMBER TY-122 Strip mine on Step Creek southeast of Lucinda

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	2	2.9	940	0	167	1375	0	23	4.0	33
04-01-74	17	2.8	860	0	103	1400	0	175	21	286
05-06-74	2	2.9	680	0	55	1100	0	16	1.3	26
05-28-74	4	2.7	780	0	81	1275	0	37	3.9	61
06-20-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-22-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-23-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	2	2.7	680	0	55	1100	0	16	1.3	26
MAX.	17	2.9	940	0	167	1375	0	175	21	286
AVG.	6.2						0	63	7.6	102

TOBY CREEK WATERSHED WEIR NUMBER TY-124 Spring on Step Creek, east of Arthurs

02-27-74	4	3.1	100	0	16	275	0	4.8	0.80	13
03-29-74	6	3.1	100	0	8.1	300	0	7.2	0.60	22
05-06-74	4	3.1	100	0	9.5	300	0	4.8	0.50	14
05-28-74	12	2.7	120	0	30	450	0	17	4.3	65
*06-20-74	1	2.7	300	0	292	1400	0	3.6	3.5	17
07-24-74	2	2.8	500	0	33	975	0	12	0.80	23
*08-23-74	2	2.7	500	0	184	975	0	12	4.4	23
MIN.	2	2.7	100	0	8.1	275	0	4.8	0.50	13
MAX.	12	3.1	500	0	33	975	0	17	4.3	65
AVG.	5.6						0	9.2	1.4	27

TOBY CREEK WATERSHED WEIR NUMBER TY-125 Gas Well on Little Toby Creek southeast of Lucinda

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-21-74	70	2.9	300	0	178	950	0	252	150	798
03-27-74	50	2.9	400	0	144	925	0	240	86	555
05-08-74	70	2.8	220	0	159	650	0	185	134	546
05-28-74	22	2.7	280	0	70	775	0	74	19	205
06-25-74	22	2.8	400	0	64	1200	0	106	17	317
07-24-74	17	2.7	500	0	87	925	0	102	18	189
*08-23-74	22	2.5	1700	0	82	1175	0	449	22	310
MIN.	17	2.7	220	0	64	650	0	74	17	189
MAX.	70	2.9	500	0	178	1200	0	252	150	798
AVG.	42						0	160	71	435

TOBY CREEK WATERSHED WEIR NUMBER TY-126 Gas well on Little Toby Creek southeast of Lucinda.

02-21-74	34	2.9	240	0	72	775	0	98	29	316
03-27-74	6	2.9	220	0	33	600	0	16	2.4	43
05-08-74	12	2.9	200	0	24	725	0	29	3.4	104
05-29-74	6	2.7	220	0	41	650	0	16	2.9	47
06-25-74	4	2.8	600	0	43	1150	0	29	2.0	55
07-24-74	12	2.7	400	0	49	800	0	58	7.1	115
08-23-74	4	2.5	500	0	45	1300	0	24	2.2	62
MIN.	4	2.5	200	0	24	600	0	16	2.0	43
MAX.	34	2.9	600	0	72	1300	0	98	29	316
AVG.	11						0	39	7.0	106

TOBY CREEK WATERSHED WEIR NUMBER TY-127 Spring on Step Creek south of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-21-74	9	4.2	48	0	0.29	150	0	5.2	0.03	16
04-01-74	9	4.2	30	0	0	225	0	3.2	0	24
05-06-74	6	4.0	30	0	0	98	0	2.2	0	7.1
*05-24-74	2	3.0	140	0	24	250	0	3.4	0.60	6.0
06-20-74	6	4.1	50	0	0	150	0	3.6	0	11
07-24-74	12	3.9	84	0	0	150	0	12	0	22
08-27-74	2	4.4	92	0	0	225	0	2.2	0	5.4
MIN.	2	3.9	30	0	0	98	0	2.2	0	5.4
MAX.	12	4.4	92	0	0.29	225	0	12	0.03	24
AVG.	7.3						0	4.7	0.005	14

TOBY CREEK WATERSHED WEIR NUMBER TY-128 Deep and Strip mine on Toby Creek northeast of Helen Furnace

02-27-74	6	3.3	862	0	698	3125	0	62	50	225
03-26-74	17	3.2	1160	0	757	3375	0	237	154	689
05-02-74	34	2.7	1140	0	231	2750	0	465	94	1122
05-24-74	42	3.0	1180	0	441	2550	0	595	222	1285
06-20-74	28	3.2	940	0	278	3125	0	316	93	1050
07-22-74	12	2.9	1900	0	362	1025	0	274	52	148
08-23-74	9	2.7	1200	0	351	3500	0	130	38	378
MIN.	6	2.7	862	0	231	1025	0	62	38	148
MAX.	42	3.3	1900	0	757	3500	0	595	222	1285
AVG.	21						0	297	100	699

TOBY CREEK WATERSHED WEIR NUMBER TY-129 Spring on unnamed tributary to Toby Creek northeast of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	2	4.8	560	0	280	2025	0	13	6.7	49
*03-26-74	4	5.0	600	64	483	2225	3.1	29	23	107
05-02-74	9	3.1	760	0	123	1975	0	82	13	213
05-24-74	4	3.1	900	0	212	1900	0	43	10	91
06-20-74	2	3.5	344	0	134	1725	0	8.3	3.2	41
07-22-74	1	2.8	800	0	151	2250	0	9.6	1.8	27
08-23-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	2.8	344	0	123	1725	0	8.3	1.8	27
MAX.	9	4.8	900	0	280	2250	0	82	13	213
AVG.	3.6						0	31	6.9	84

TOBY CREEK WATERSHED WEIR NUMBER TY-130 Spring on unnamed tributary to Step Creek northeast of Arthurs.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	22	3.8	72	0	0	245	0	19	0	65
03-29-74	22	4.1	58	0	0.71	200	0	15	0.20	53
05-06-74	9	4.1	38	0	4.2	215	0	4.1	0.50	23
05-29-74	6	3.8	104	0	2.3	275	0	7.5	0.20	20
06-20-74	2	3.9	104	0	1.1	375	0	2.5	0.03	9.0
07-26-74	1	3.9	152	0	24	575	0	1.8	0.30	6.9
08-27-74	2	4.3	88	0	19	700	0	2.1	0.50	17
MIN.	1	3.8	38	0	0	200	0	1.8	0	6.9
MAX.	22	4.3	152	0	24	700	0	19	0.50	65
AVG.	9.1						0	7.4	0.25	28

TOBY CREEK WATERSHED WEIR NUMBER TY-131 Spring on Toby Creek southeast of Leeper.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-19-74	22	5.8	8	66	16	275	17	2.1	4.3	73
*04-02-74	4	5.1	2	10	37	30	0.50	0.10	1.8	1.4
05-03-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
05-24-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
06-20-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
07-26-74	12	5.9	6	70	7.5	300	10	0.90	1.1	43
09-04-74	17	5.6	4	78	8.7	175	3.7	0.80	1.8	0.80
MIN.	12	5.6	4	66	7.5	175	3.7	0.80	1.1	0.80
MAX.	22	5.9	8	78	16	300	17	2.1	4.3	73
AVG.	17						14	1.3	2.4	39

TOBY CREEK WATERSHED WEIR NUMBER TY-132 Intermittent small stream northeast of Snydersburg.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
02-27-74	22	4.3	48	0	0.15	225	0	13	0.04	59
03-26-74	193	4.4	34	0	0.44	120	0	79	1.0	278
05-03-74	193	4.4	38	0	0.30	150	0	88	0.70	347
05-30-74	42	4.0	40	0	0.10	150	0	20	0.05	76
06-20-74	12	4.1	32	0	0.10	225	0	4.6	0.01	32
07-24-74	6	3.9	34	0	0.50	225	0	2.4	0.04	16
*08-26-74	4	4.1	30	20	2.6	150	1.0	1.4	0.10	7.2
10-01-74	22	4.3	44	0	0.10	300	0	12	0.03	79
MIN.	6	3.9	32	0	0.10	120	0	2.4	0.01	16
MAX.	193	4.4	48	0	0.50	300	0	88	1.0	347
AVG.	70						0	31	0.27	127

TOBY CREEK WATERSHED WEIR NUMBER TY-133 Gas well on Toby Creek west of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-01-74	4	6.3	2	186	4	175	8.9	0.10	0.20	8.4
05-02-74	4	6.6	8	240	14	70	12	0.40	0.70	3.4
05-24-74	4	6.5	22	316	21	50	15	1.1	1.0	2.4
06-25-74	2	6.2	4	366	1	175	4.4	0.10	0.02	4.2
07-22-74	1	6.6	12	280	67	325	3.4	0.10	0.80	3.9
08-23-74	2	6.9	2	374	1.6	175	9.0	0.05	0.04	4.2
MIN.	1	6.2	2	186	1.6	50	3.4	0.05	0.02	2.4
MAX.	4	6.9	22	374	67	325	15	1.1	1.0	8.4
AVG.	2.8						8.8	0.31	0.46	4.4

TOBY CREEK WATERSHED WEIR NUMBER TY-135 Gas well on Toby Creek southwest of Helen Furnace.

*04-02-74	12	4.7	4	2	0.24	45	0.30	0.60	0.03	6.5
05-10-74	4	5.6	80	30	31	525	1.4	3.8	1.5	25
05-30-74	22	5.0	14	26	68	675	6.9	3.7	18	178
06-20-74	17	5.2	48	38	65	700	7.8	9.9	13	143
07-22-74	4	5.6	38	48	57	950	2.3	1.8	2.7	46
08-27-74	6	6.2	110	98	64	900	7.1	7.9	4.6	65
MIN.	4	5.0	14	26	31	525	1.4	1.8	1.5	25
MAX.	22	6.2	110	98	68	950	7.8	9.9	18	178
AVG.	11						5.1	5.4	8.0	91

TOBY CREEK WATERSHED WEIR NUMBER TY-136 Spring on Toby Creek north of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-01-74	9	4.7	2	2	0	20	0.20	0.20	0	2.2
05-02-74	6	5.6	2	12	0.10	23	0.90	0.10	0.007	1.7
05-24-74	2	5.1	6	4	0	35	0.10	0.10	0	0.90
06-25-74	22	4.7	20	6	0	100	1.6	5.3	0	26
07-24-74	17	4.5	16	0	0	150	0	3.3	0	31
09-07-74	12	4.0	12	0	0	225	0	1.7	0	32
MIN.	2	4.0	2	0	0	20	0	0.10	0	0.90
MAX.	22	5.6	20	12	0.10	225	1.6	5.3	0.007	32
AVG.	11						0.46	1.8	0.001	16

TOBY CREEK WATERSHED WEIR NUMBER TY-137 Spring on Toby Creek north of Helen Furnace.

04-01-74	1	2.8	140	0	40	425	0	1.7	0.50	5.1
05-01-74	6	2.7	200	0	16	600	0	14	1.1	43
05-30-74	NO SAMPLE AVAILABLE - NOT TAKEN									
06-25-74	1	3.2	330	0	130	1150	0	4.0	1.6	14
07-24-74	1	2.9	500	0	115	550	0	6.0	1.4	6.6
08-28-74	NO SAMPLE AVAILABLE - DRY									
MIN.	1	2.7	140	0	16	425	0	1.7	0.50	5.1
MAX.	6	3.2	500	0	130	1150	0	14	1.6	43
AVG.	2.2						0	6.4	1.2	17

TOBY CREEK WATERSHED WEIR NUMBER TY-138 Spring on Toby Creek north of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*04-02-74	34	4.9	4	2	0.48	35	0.80	1.6	0.20	14
05-02-74	6	5.2	4	4	NO SMALL BOTTLE	150	0.30	0.30	NO SMALL BOTTLE	11
06-03-74	4	3.9	6	0	0.10	175	0	0.30	0.005	8.4
06-25-74	9	5.4	8	14	0.20	175	1.5	0.90	0.02	19
07-24-74	4	5.2	10	12	0.50	175	0.60	0.50	0.02	8.4
09-06-74	17	5.1	8	4	0	200	0.80	1.6	0	41
MIN.	4	3.9	4	0	0	150	0	0.30	0	8.4
MAX.	17	5.4	10	14	0.50	200	1.5	1.6	0.02	41
AVG.	8.0						0.64	0.72	0.009	18

TOBY CREEK WATERSHED WEIR NUMBER TY-139 Spring on Toby Creek northwest of Helen Furnace.

04-01-74	6	4.6	2	2	0.24	45	0.10	0.14	0.20	3.2
05-10-74	6	4.5	20	4	0.80	20	0.30	1.4	0.10	1.4
05-24-74	2	4.3	32	0	5.0	175	0	0.80	0.10	4.2
06-25-74	1	4.3	50	0	5.2	200	0	0.60	0.10	2.4
07-22-74	2	4.0	32	0	3.3	325	0	0.80	0.10	7.8
09-06-74	6	3.7	30	0	0	175	0	2.2	0	13
MIN.	1	3.7	2	0	0	20	0	0.14	0	1.4
MAX.	6	4.6	50	4	5.2	325	0.30	2.2	0.20	13
AVG.	3.8						0.07	0.99	0.10	5.3

TOBY CREEK WATERSHED WEIR NUMBER TY-140 Gas well on Toby Creek northwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-02-74	12	4.9	2	6	0.24	30	0.90	0.30	0.03	4.3
05-02-74	2	5.5	10	10	0.20	19	0.20	0.20	0.005	0.50
05-30-74	1	4.5	4	0	5.1	175	0	0.05	0.06	2.1
06-25-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-22-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	1	4.5	2	0	0.20	19	0	0.05	0.005	0.50
MAX.	12	5.5	10	10	5.1	175	0.90	0.30	0.06	4.3
AVG.	5.0						0.37	0.18	0.03	2.3

TOBY CREEK WATERSHED WEIR NUMBER TY-141 Gas well on Toby Creek northwest of Helen Furnace.

04-02-74	22	5.1	2	4	3.8	40	1.1	0.50	1.0	11
05-02-74	22	4.9	4	4	NO SMALL BOTTLE	45	1.1	1.1	NO SMALL BOTTLE	12
05-28-74	9	4.0	28	0	1.1	225	0	3.0	0.10	24
06-25-74	6	3.9	128	0	2.1	300	0	9.2	0.20	22
07-22-74	1	3.0	600	0	2.0	950	0	7.2	0.02	11
08-28-74	2	3.7	294	0	1.7	925	0	7.1	0.04	22
MIN.	1	3.0	2	0	1.1	40	0	0.50	0.02	11
MAX.	22	5.1	600	4	3.8	950	1.1	9.2	1.0	24
AVG.	10						0.4	4.7	0.27	17

TOBY CREEK WATERSHED WEIR NUMBER TY-142 Gas well on Toby Creek northwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
05-02-74	12	7.0	0	90	0.30	225	13	0	0.04	32
05-31-74	9	6.4	4	110	5.1	150	12	0.40	0.60	16
06-26-74	2	5.7	10	118	5.4	250	2.8	0.20	0.10	6.0
*07-26-74	2	6.2	2	116	20	275	2.8	0.05	0.50	6.6
08-23-74	6	6.8	8	116	3.8	225	8.4	0.60	0.30	16
MIN.	2	5.7	0	90	0.30	150	2.8	0	0.04	6.0
MAX.	12	7.0	10	118	5.4	250	13	0.60	0.60	32
AVG.	7.2						9.0	0.30	0.28	18

TOBY CREEK WATERSHED WEIR NUMBER TY-143 Spring on Toby Creek west of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
03-28-74	1	4.9	14	6	0.44	45	0.10	0.20	0.005	0.50
05-02-74	1	5.2	6	6	0.10	40	0.10	0.10	0.001	0.50
*05-24-74	1	5.0	20	8	4.4	225	0.10	0.20	0.10	2.7
06-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-27-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	1	4.9	6	6	0.10	40	0.10	0.10	0.001	0.50
MAX.	1	5.2	14	6	0.44	45	0.10	0.20	0.005	0.50
AVG.	1						0.10	0.15	0.003	0.50

TOBY CREEK WATERSHED WEIR NUMBER TY-144 Spring on Toby Creek west of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-02-74	22	4.3	2	0	0.24	40	0	0.53	0.10	11
05-08-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
05-28-74	12	4.3	4	0	16	200	0	0.60	2.3	29
06-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-27-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	12	4.3	2	0	0.24	40	0	0.53	0.10	11
MAX.	22	4.3	4	0	16	200	0	0.60	2.3	29
AVG.	17							0.55	1.2	20

TOBY CREEK WATERSHED WEIR NUMBER TY-145 Spring on Toby Creek west of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*04-02-74	6	4.3	8	0	0	45	0	0.60	0	3.2
05-08-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
05-28-74	22	3.1	60	0	5.8	150	0	16	1.5	40
06-25-74	2	3.2	190	0	27	575	0	4.6	0.70	14
07-22-74	6	2.9	400	0	101	400	0	29	7.3	29
09-05-74	123	2.9	400	0	10	200	0	590	15	295
MIN.	2	2.9	60	0	5.8	150	0	4.6	0.70	14
MAX.	123	3.2	400	0	101	575	0	590	15	295
AVG.	38						0	160	6.1	94

TOBY CREEK WATERSHED WEIR NUMBER TY-146 Gas well on Toby Creek southwest of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*04-03-74	12	3.9	20	0	0	225	0	2.9	0	32
05-10-74	12	2.9	220	0	64	515	0	32	9.2	74
05-31-74	12	2.8	180	0	126	475	0	26	18	68
06-25-74	34	3.1	270	0	72	925	0	110	29	377
07-22-74	9	2.7	200	0	127	900	0	32	14	97
09-04-74	2	2.7	600	0	29	975	0	14	0.70	23
MIN.	2	2.7	180	0	29	475	0	14	0.70	23
MAX.	34	3.1	600	0	127	975	0	110	29	377
AVG.	14						0	43	14	128

TOBY CREEK WATERSHED WEIR NUMBER TY-147 Spring on Toby Creek near mouth of Toby Creek.

03-21-74	193	3.7	216	0	0	325	0	500	0	753
03-27-74	50	3.7	268	0	0.60	400	0	161	0.40	240
04-30-74	193	3.8	200	0	0.50	275	0	463	1.2	637
05-24-74	397	3.7	274	0	0.10	375	0	1305	0.50	1787
06-25-74	50	3.7	250	0	1.2	625	0	150	0.70	375
07-26-74	12	3.5	234	0	1.1	775	0	34	0.20	112
08-27-74	12	4.1	248	0	1.6	575	0	36	0.20	83
MIN.	12	3.5	200	0	0	275	0	34	0	83
MAX.	397	4.1	274	0	1.6	775	0	1305	1.2	1787
AVG.	130						0	378	0.46	569

TOBY CREEK WATERSHED WEIR NUMBER TY-148 Strip mine on unnamed tributary to Cherry Run northwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
03-28-74	6	2.9	2020	0	96	1625	0	145	6.9	117
04-03-74	12	2.7	1160	0	58	1200	0	167	8.3	173
05-07-74	2	2.8	1300	0	81	2025	0	31	1.9	49
05-30-74	2	2.6	1360	0	84	1725	0	33	2.0	41
*06-25-74	1	2.9	164	0	78	2525	0	2.0	0.90	30
07-24-74	1	2.7	1500	0	85	1375	0	18	1.0	17
08-28-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	2.6	1160	0	58	1200	0	18	1.0	17
MAX.	12	2.9	2020	0	96	2025	0	167	8.3	173
AVG.	4.6						0	79	4.0	79

TOBY CREEK WATERSHED WEIR NUMBER TY-149 Strip mine on unnamed tributary to Cherry Run northwest of Miola.

03-28-74	1	2.6	3440	0	177	4950	0	41	2.1	59
05-02-74	2	2.7	3000	0	140	4500	0	72	3.4	108
05-30-74	1	2.4	3600	0	128	4975	0	43	1.5	60
06-25-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY			0	0	0	0	0	0	0
MIN.	1	2.4	3000	0	128	4500	0	41	1.5	59
MAX.	2	2.7	3600	0	177	4975	0	72	3.4	108
AVG.	1.3						0	52	2.3	76

TOBY CREEK WATERSHED WEIR NUMBER TY-150 Spring on Toby Creek southwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
03-28-74	12	4.3	20	0	0	120	0	2.9	0	17
04-01-74	2	4.0	14	0	0	55	0	0.30	0	1.3
04-30-74	6	4.5	8	0	0	29	0	0.60	0	2.1
*05-30-74	1	4.2	10	0	5.2	150	0	0.10	0.06	1.8
06-25-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	2	4.0	8	0	0	29	0	0.30	0	1.3
MAX.	12	4.5	20	0	0	120	0	2.9	0	17
AVG.	6.7						0	1.3	0	6.8

TOBY CREEK WATERSHED WEIR NUMBER TY-151 Spring on Toby Creek southwest of Miola.

*04-30-74	9	4.8	10	6	0	62	0.70	1.1	0	6.7
05-30-74	1	2.9	440	0	157	525	0	5.3	1.9	6.3
06-25-74	1	3.0	34	0	237	1100	0	0.40	2.8	13
07-26-74	1	2.7	200	0	195	825	0	2.4	2.3	9.9
09-04-74	6	2.7	500	0	280	1300	0	36	20	94
MIN.	1	2.7	34	0	157	525	0	0.40	1.9	6.3
MAX.	6	3.0	500	0	280	1300	0	36	20	94
AVG.	2.2						0	11	6.8	31

TOBY CREEK WATERSHED WEIR NUMBER TY-152 Spring on Toby Creek southwest of Miola.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-01-74	50	3.3	120	0	1.2	250	0	72	0.70	150
04-30-74	70	3.4	112	0	1.8	250	0	94	1.5	210
05-30-74	9	3.1	140	0	4.5	225	0	15	0.50	24
06-25-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-26-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	9	3.1	112	0	1.2	225	0	15	0.50	24
MAX.	70	3.4	140	0	4.5	250	0	94	1.5	210
AVG.	43						0	60	0.90	128

TOBY CREEK WATERSHED WEIR NUMBER TY-153 Spring on Toby Creek southwest of Miola.

04-01-74	17	4.1	20	0	0	150	0	4.1	0	31
04-30-74	6	4.3	18	0	0.40	71	0	1.3	0.03	5.1
05-30-74	1	3.8	50	0	0.40	100	0	0.60	0.005	1.2
06-25-74	2	3.9	120	0	0.50	425	0	2.9	0.01	10
07-26-74	2	3.4	174	0	0.70	625	0	4.2	0.02	15
09-03-74	6	3.8	80	0	0	325	0	5.8	0	23
MIN.	1	3.4	18	0	0	71	0	0.60	0	1.2
MAX.	17	4.3	174	0	0.70	625	0	5.8	0.03	31
AVG.	5.7						0	3.2	0.02	14

TOBY CREEK WATERSHED WEIR NUMBER TY-154 Spring on Toby Creek north of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*04-01-74	6	4.9	6	6	0.71	15	0.40	0.40	0.10	1.1
05-10-74	4	5.9	8	34	7.0	25	1.6	0.40	0.30	1.2
05-30-74	1	6.0	22	158	27	125	1.9	0.30	0.30	1.5
06-25-74	1	5.7	64	120	65	150	1.4	0.80	0.80	1.8
07-22-74	1	5.7	4	98	72	250	1.2	0.05	0.90	3.0
*09-06-74	6	5.0	30	12	0	225	0.90	2.2	0	16
MIN.	1	5.7	4	34	7.0	25	1.2	0.05	0.30	1.2
MAX.	4	6.0	64	158	72	250	1.9	0.80	0.90	3.0
AVG.	1.8						1.5	0.40	0.58	1.9

TOBY CREEK WATERSHED WEIR NUMBER TY-155 Spring on Toby Creek north of Helen Furnace.

04-01-74	6	4.8	6	2	0	40	0.10	0.40	0	2.9
05-10-74	4	6.0	10	30	4.2	38	1.4	0.50	0.20	1.8
05-30-74	1	6.0	26	100	37	100	1.2	0.30	0.40	1.2
06-25-74	6	5.9	40	58	16	75	4.2	2.9	1.2	5.4
07-22-74	2	5.8	2	58	9.4	225	1.4	0.10	0.20	5.4
09-06-74	6	5.4	30	40	0	300	2.9	2.2	0	22
MIN.	1	4.8	2	2	0	38	0.10	0.10	0	1.2
MAX.	6	6.0	40	100	37	300	4.2	2.9	1.2	22
AVG.	4.2						1.9	1.1	0.33	65

TOBY CREEK WATERSHED WEIR NUMBER TY-156 Spring on Toby Creek north of Helen Furnace.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
04-01-74	1	5.8	20	154	35	175	1.8	0.20	0.40	2.1
05-10-74	1	6.6	4	176	32	150	2.1	0.05	0.40	1.8
05-30-74	2	5.8	12	38	4.2	50	0.90	0.30	0.10	1.2
06-25-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
07-22-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
08-28-74	NO SAMPLE AVAILABLE - DRY		0	0	0	0	0	0	0	0
MIN.	1	5.8	4	38	4.2	50	0.90	0.05	0.10	1.2
MAX.	2	6.6	20	176	35	175	2.1	0.30	0.40	2.1
AVG.	1.3						1.6	0.18	0.30	1.7

TOBY CREEK WATERSHED WEIR NUMBER TY-157 Strip mine on unnamed tributary to Step Creek northeast of Arthurs.

04-03-74	50	4.1	44	0	0	200	0	26	0	120
05-08-74	1	3.8	34	0	0.10	200	0	0.40	0.001	2.4
05-30-74	28	4.3	32	0	0.90	175	0	11	0.30	59
06-20-74	6	4.0	36	0	0.30	200	0	2.6	0.02	14
07-24-74	12	3.9	54	0	0.80	175	0	7.8	0.10	25
*08-27-74	12	3.1	1236	0	141	1725	0	178	20	248
09-30-74	12	3.8	68	0	0.80	375	0	9.8	0.10	54
MIN.	1	3.8	32	0	0	175	0	0.40	0	2.4
MAX.	50	4.3	68	0	0.90	375	0	26	0.30	120
AVG.	18						0	9.6	0.09	46

TOBY CREEK WATERSHED WEIR NUMBER TY-158 Gas well on Little Toby Creek southeast of Lucinda.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	SO ₄	ALK	ACD	T.Fe	SO ₄
*04-04-74	12	4.8	510	14	234	1225	2.0	73	34	176
05-02-74	4	3.3	420	0	184	1100	0	20	8.8	53
05-30-74	2	3.2	500	0	223	1175	0	12	5.4	28
06-26-74	4	3.4	434	0	195	825	0	21	9.4	40
07-24-74	6	2.7	500	0	67	1100	0	36	4.8	79
08-23-74	4	3.2	480	0	182	1500	0	23	8.7	72
MIN.	2	2.7	420	0	67	825	0	12	4.8	28
MAX.	6	3.4	500	0	223	1500	0	36	9.4	79
AVG.	4.0						0	22	7.4	54

TOBY CREEK WATERSHED WEIR NUMBER TY-159 Spring on Toby Creek west of Miola.

07-07-74	12	3.3	196	0	0.50	725	0	28	0.10	104
09-06-74	6	3.0	500	0	0.50	825	0	36	0.04	59
MIN.	6	3.0	196	0	0.50	725	0	28	0.04	59
MAX.	12	3.3	500	0	0.50	825	0	36	0.10	104
AVG.	9						0	32	0.07	82