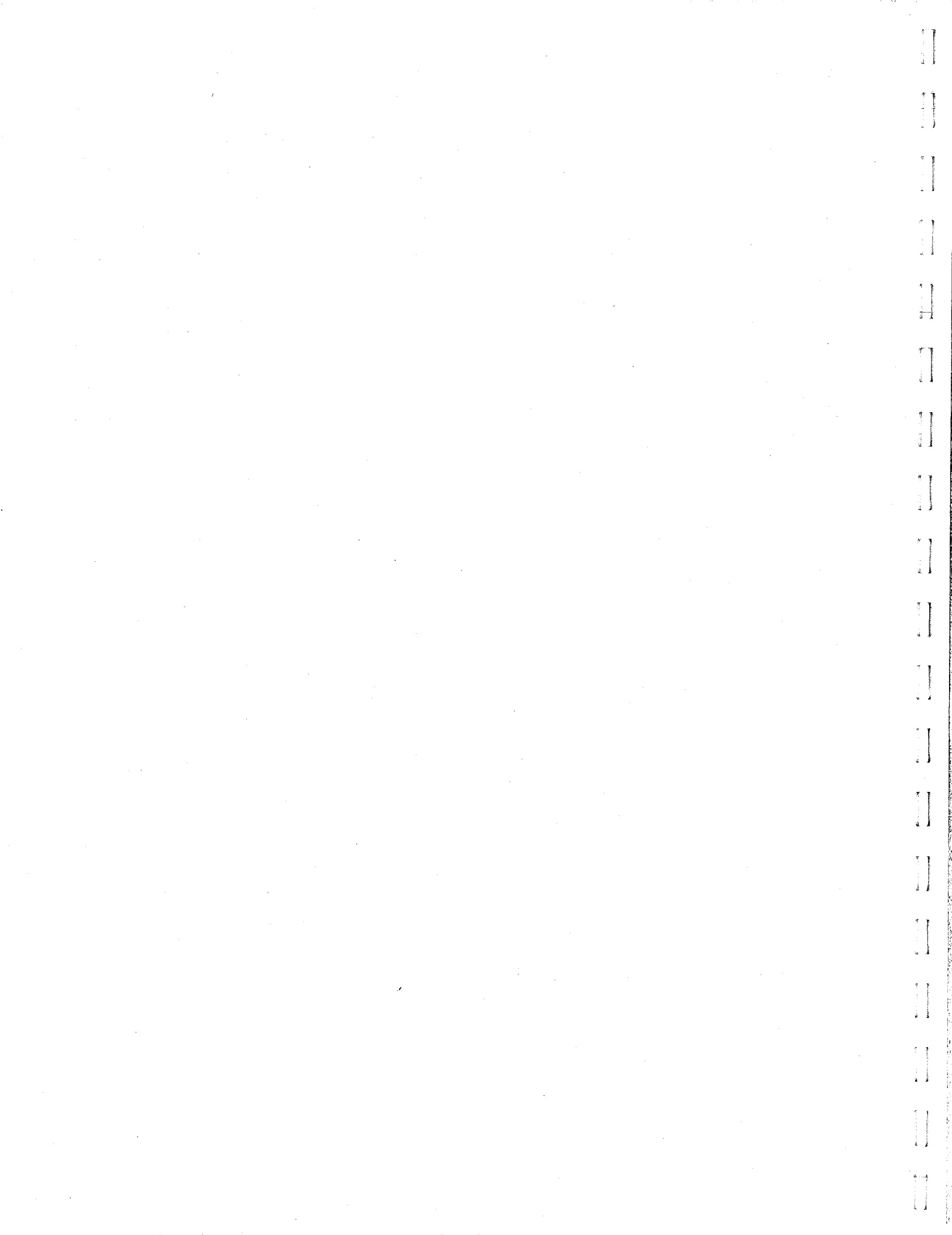


APPENDIX B
CHEMICAL ANALYSTS AND FLOW DATA
STREAM SAMPLING

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



TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-1 Tarkiln Run at mouth below Bridge on Paint Mills Road
(or State Game Lands No. 72 Road) PPD

DATE	GPM	PH	PPM				SO4	T.Fe	SO4	T.Fe	SO4
			ACD	ALK	ACD	ALK					
08-17-73	1,983	3.1	1,600	0	130	2,700	3,093	38,074	0	3,093	64,249
12-07-73	604	2.7	780	0	35	925	254	5,653	0	254	6,704
05-02-74	2,216	3.0	320	0	**	525	**	8,509	0	**	13,961
*07-12-74	298	2.2	1,900	0	119	1,875	426	6,794	0	426	6,705
09-16-74	529	3.1	904	0	51	1,575	324	5,739	0	324	9,998
MIN.	529	2.7	320	0	35	525	254	5,653	0	254	6,704
MAX.	2,216	3.1	1,900	0	130	2,700	3,093	38,074	0	3,093	64,249
AVG.	1,333	3.0						14,494	0	1,223	23,728

** - Fe Sample Bottle Broken

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-2 Mouth of unnamed tributary in State Game Lands No. 72
downstream from Bridge on T-577

08-17-73	42	3.4	980	0	9.0	900	4.5	494	0	4.5	454
12-07-73	199	3.1	404	0	3.6	575	8.6	965	0	8.6	1,373
05-03-74	467	3.3	226	0	2.0	275	11.0	1,267	0	11.0	1,541
*07-16-74	86	3.1	700	0	3.7	1,425	3.8	722	0	3.8	1,471
09-16-74	62	3.4	414	0	3.2	1,125	2.4	308	0	2.4	837
MIN.	42	3.1	226	0	2.0	275	2.4	494	0	2.4	454
MAX.	467	3.4	980	0	9.0	1,425	11.0	1,267	0	11.0	1,541
AVG.	193	3.3					6.6	759	0	6.6	1,051

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-3 Step Creek at mouth, upstream of bridge on T-577.

DATE	GPM	PH	PPM					
			ACD	ALK	T.Fe	SO4	SO4	
08-17-73	483	3.3	290	0	24	570	139	3,304
12-07-73	2,175	3.0	240	0	14	290	365	7,569
04-26-74	3,315	3.0	180	0	4.1	200	163	7,956
*07-12-74	735	2.9	1,200	0	23	625	203	5,513
09-16-74	1,271	3.2	238	0	16	475	244	7,245
MIN.	483	3.0	180	0	4.1	200	139	3,304
MAX.	3,315	3.3	290	0	24	570	365	7,956
AVG.	1,811	3.1		0			228	6,519

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-4 Toby Creek upstream of mouth of Step Creek and Bridge on T-577.

DATE	GPM	PH	PPM					
			ACD	ALK	T.Fe	SO4	SO4	
08-17-73	3,217	3.4	150	0	4.7	460	181	17,758
12-07-73	6,270	3.2	96	0	10	220	752	16,553
04-26-74	18,162	3.4	60	0	0.10	125	22	27,243
*07-17-74	6,380	3.1	80	0	22	225	1,684	17,226
09-16-74	6,836	3.4	84	0	**	350	**	28,711
MIN.	3,217	3.2	60	0	0.1	125	22	16,553
MAX.	18,162	3.4	150	0	22	460	752	27,243
AVG.	8,621	3.4		0			318	22,566

** - No Analysis Received

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-5 Little Toby Creek at mouth, downstream from bridge on T-562.

DATE	GPM	pH	PPM							
			ACD	ALK	T.Fe	S04	S04			
08-22-73	589	3.4	170	0	11	470	0	1,202	78	3,322
12-12-73	1,078	3.1	160	0	13	275	0	2,070	168	3,557
05-02-74	2,822	3.2	70	0	6.8	150	0	2,370	230	5,080
*07-15-74	1,017	2.8	800	0	9.7	300	0	9,763	118	3,661
09-16-74	1,088	3.3	184	0	12	475	0	2,402	157	6,202
MIN.	589	3.1	70	0	6.8	150	0	1,202	78	3,322
MAX.	2,822	3.4	184	0	13	475	0	2,402	230	5,080
AVG.	1,394	3.3		0			0	2,011	158	4,540

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-6 Engle Run at mouth, upstream from Bridge on T-562.

DATE	GPM	pH	PPM							
			ACD	ALK	T.Fe	S04	S04			
08-20-73	435	3.7	70	0	1.2	260	0	365	6.3	1,357
12-12-73	1,934	3.6	44	0	1.4	110	0	1,021	32	2,553
04-23-74	2,903	3.7	32	0	0.9	225	0	1,115	31	7,838
*07-15-74	1,269	3.1	64	0	1.5	100	0	975	23	1,523
09-16-74	815	3.6	50	0	1.2	225	0	489	12	2,201
MIN.	435	3.6	32	0	0.9	100	0	365	6.3	1,357
MAX.	2,903	3.7	70	0	1.2	260	0	1,115	32	7,838
AVG.	1,521	3.65		0			0	748	20	3,487

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-7 Toby Creek upstream from Engle Run and Bridge on T-562

PPM

DATE	GPM	pH	ACD	ALK	T.Fe	S04	ALK	ACD	T.Fe	S04
08-20-73	2,360	3.6	80	0	1.3	350	0	2,266	37	9,912
12-12-73	5,797	**	**	**	2.2	**	**	**	153	**
04-23-74	12,877	3.8	42	0	1.5	225	0	6,490	232	34,768
*07-15-74	6,205	3.2	86	0	1.5	175	0	6,404	112	13,031
09-16-74	3,651	3.5	46	0	1.1	350	0	2,015	48	15,334
MIN.	2,360	3.5	42	0	1.1	225	0	2,015	37	9,192
MAX.	12,877	3.8	80	0	2.2	350	0	6,490	232	34,768
AVG.	6,171	3.6					0	3,590	118	20,005

** - No chemical analyses performed; large bottle broken in transit (Fe analysis performed)

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-8 Mouth of Wolbert Run upstream of Bridge on L.R. 16053

08-22-73	296	4.9	13	0	0.70	120	0	46	2.50	426
12-13-73	465	4.6	14	2	0	65	11	78	0	363
04-23-74	617	4.7	6	2	0.10	30	15	44	0.74	222
*07-16-74	233	4.4	12	0	0.20	300	0	34	0.56	839
09-16-74	222	4.3	20	0	0	225	0	53	0	599
MIN.	222	4.3	6	0	0	30	0	44	0	222
MAX.	619	4.9	20	2	0.70	225	15	78	2.50	599
AVG.	400	4.6					6.5	55	0.81	403

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-9 Henry Run at bridge on T-618.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	S04	ALK	ACD	T.Fe	S04
08-22-73	1,020	3.6	130	0	2.0	490	0	1,591	24	5,998
12-12-73	1,565	3.2	64	0	8.6	170	0	1,202	161	3,193
04-23-74	3,191	3.8	74	0	1.5	225	0	2,834	57	8,616
*07-15-74	1,899	3.2	128	0	3.0	225	0	2,917	68	5,127
09-16-74	861	3.5	78	0	2.2	300	0	806	23	3,100
MIN.	861	3.2	64	0	1.5	170	0	806	23	3,100
MAX	3,191	3.8	130	0	8.6	490	0	2,834	161	8,616
AVG.	1,659	3.5					0	1,608	66	5,227

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-10 Toby Creek upstream of mouth of Henry Run.

DATE	GPM	pH	PPM				PPD			
			ACD	ALK	T.Fe	S04	ALK	ACD	T.Fe	S04
08-22-73	642	3.7	42	0	1.5	150	0	324	12	1,156
12-12-73	3,837	3.5	44	0	4.9	80	0	2,026	226	3,684
04-23-74	7,239	4.0	20	0	1.6	150	0	1,737	139	13,030
*07-16-74	3,734	3.6	38	0	2.3	275	0	1,703	103	12,322
09-16-74	1,844	3.6	30	0	3.1	225	0	664	69	4,979
MIN.	642	3.5	20	0	1.5	80	0	324	12	1,156
MAX.	7,239	4.0	44	0	4.9	225	0	2,026	226	13,030
AVG.	3,391	3.7	34				0	1,188	112	5,712

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-11

Step Creek downstream from unnamed tributary and Bridge on T-578.

PPM

DATE	GPM	pH	ACD	ALK	T.Fe	S04	ALK	ACD	T.Fe	S04
08-23-73	775	3.2	280	0	26	630	0	2,604	242	5,859
12-13-73	882	3.0	184	0	20	305	0	1,946	212	3,228
04-26-74	2,702	3.0	200	0	24	225	0	6,485	778	7,295
*07-12-74	751	2.4	1100	0	36	450	0	9,913	324	4,055
09-16-74	1,141	3.0	500	0	23	700	0	6,846	315	9,584
MIN.	775	3.0	184	0	20	225	0	1,947	212	3,228
MAX.	2,702	3.2	500	0	36	700	0	6,846	778	7,295
AVG.	1,375	3.1					0	4,471	387	6,492

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-12

Step Creek at bridge on T-613

DATE	GPM	pH	ACD	ALK	T.Fe	S04	ALK	ACD	T.Fe	S04
08-23-73	350	3.2	210	0	22	450	0	882	92	1,890
12-13-73	783	3.1	90	0	21	220	0	846	197	2,067
04-26-74	1,130	2.9	160	0	38	225	0	2,170	515	3,051
*07-12-74	373	2.4	1100	0	69	450	0	4,924	309	2,014
09-16-74	1,088	3.1	160	0	31	475	0	2,089	405	6,202
MIN.	350	2.9	90	0	21	220	0	846	92	1,890
MAX.	1,130	3.2	210	0	38	475	0	2,170	515	6,202
AVG.	838	3.1					0	1,497	302	3,303

TOBY CREEK WATERSHED FLOW MEASUREMENT & SAMPLING STATION TF-13 Toby Creek at mouth at Bridge on T-576.

DATE	GPM	PH	PPM					PPD				
			ACD	ALK	T.Fe	S04	ACD	ALK	T.Fe	S04		
08-17-73	4,039(USGS)	3.0	480	0	33	960	23,265	0	1,599	46,529		
12-13-73	17,191	3.0	194	0	25	375	40,021	0	5,157	77,360		
05-03-74	51,188	3.2	100	0	11	175	61,426	0	6,757	107,495		
*07-10-74	13,638	2.5	1000	0	34	450	163,656	0	5,564	73,645		
09-16-74	11,754	3.1	284	0	30	600	40,058	0	4,231	84,629		
MIN.	4,039	3.0	100	0	11	175	23,265	0	1,599	46,529		
MAX.	51,188	3.2	480	0	33	960	61,426	0	6,757	107,495		
AVG.	21,043	3.1					41,193	0	4,436	79,003		