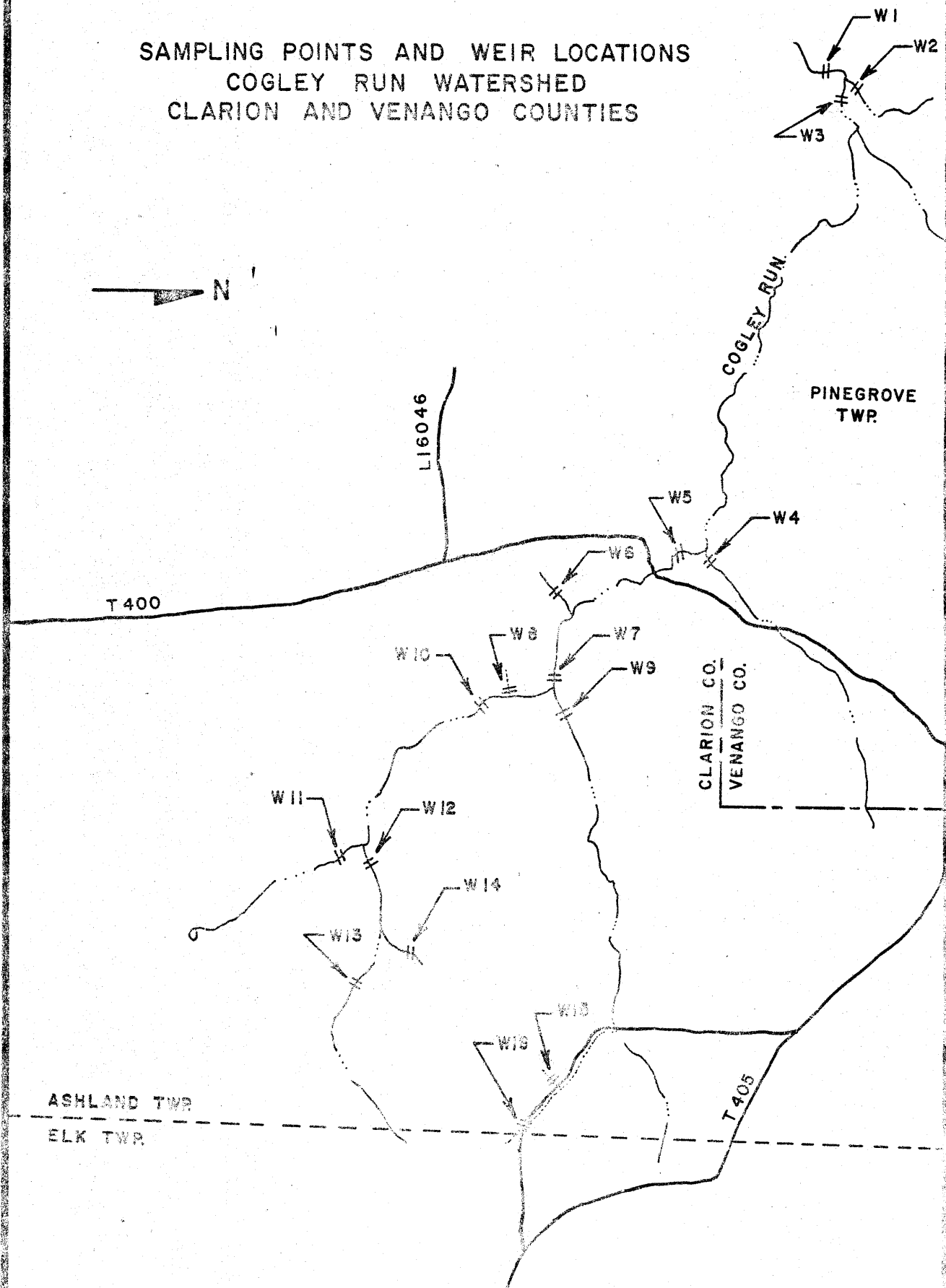


SAMPLING DATA

SAMPLING POINTS AND WEIR LOCATIONS
COGLEY RUN WATERSHED
CLARION AND VENANGO COUNTIES



LEGEND

W = SAMPLING POINTS

SCALE: 1" = 2000'

AVERAGE DATA RESULTS

Sample Station No. Weir No.	Average Flow GPM	pH	Acidity lbs/D	Alkalinity lbs/D	Ferrous Iron lbs/D	Total Iron lbs/D	Sulfates lbs/D
1	53,838	4.82	11,841	434	37.52	435	29,585
2	46,338	6.36	3,153	3,681	51.33	205	18,163
3	6,213	3.42	7,779	0	11.67	110	42,209
4	1,360	5.18	107	39	0.65	5.06	304
5	3,867	3.16	8,286	0	18.00	217	14,587
6	33	3.83	10	0	0.05	0.57	15
7	4,134	3.44	10,117	0	32.33	1,697	19,718
8	133	2.96	1,145	0	173.83	365	2,457
9	1,978	4.36	3,483	0	1.67	12.91	1,911
10	1,371	3.32	4,666	0	18.69	136	8,333
11	481	6.18	19	39	0.18	2.98	110
12	589	5.22	4,755	0	33.07	386	8,128
13	22	3.62	10	0	0.03	0.40	33
14	19	2.63	1,223	0	11.44	47.21	1,723
15	13	4.10	7	0	0.01	0.04	10
16	14	3.40	35	0	0.02	2.25	87

SAMPLE STATION 1 Weir 1										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	5.5								
4-21-72	121,500	4.6	19	27,724	1	1459	0.06	87.55	0.5	730
5-23-72	81,100	4.1	19	18,506	0	0	0.02	19.48	0.58	565
10-19-72	5,062	3.8	8	486	0	0	-----	-----	3.36	204
11-30-72	7,690	6.1	7	646	3	277	0.06	5.54	2.60	240

SAMPLE STATION 1 Weir 1										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
4-21-72	121,500		42	61,285						
5-23-72	81,100		51	49,673						
10-19-72	5,062		69	4,195						
11-30-72	7,690		34.5	3,186						

* Preliminary Survey

SAMPLE STATION 2 Weir 2										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	7.5								
4-21-72	106,500	6.7	7	8,953	9	11,511	0.08	102	0.26	333
5-23-72	71,100	6.8	4	3,416	3	2,562	0.06	51	0.33	282
10-19-72	3,100	5.3	2	75	4	149	-	-	2.90	108
11-30-72	4,650	5.5	3	168	9	503	0.02	1	1.70	95

SAMPLE STATION 2 Weir 2										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
4-21-72	106,500		32	40,929						
5-23-72	71,100		33	28,178						
10-19-72	3,100		54	2,010						
11-30-72	4,650		27.5	1,536						

* Preliminary Survey

SAMPLE STATION 3 Weir 3										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	3.5								
4-21-72	12,000	3.6	99	14,267	0	0	0.13	19	0.50	72
5-23-72	8,100	3.2	104	10,117	0	0	0.13	13	1.23	120
10-19-72	1,900	2.9	130	2,966	0	0	-	-	6.9	157
11-30-72	2,850	3.9	110	3,765	0	0	0.08	3	2.6	89

SAMPLE STATION 3 Weir 3										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
4-21-72	12,000		970	139,792						
5-23-72	8,100		193	18,775						
10-19-72	1,900		210	4,792						
11-30-72	2,850		160	5,475						

* Preliminary Survey

SAMPLE STATION 4 Weir 4										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	6.0								
4-21-72	3,200	5.0	9	346	1	38	0.03	1.15	0.39	14.99
5-23-72	2,133	5.5	3	77	3	77	0.03	0.77	0.20	5.12
10-19-72	40.5	4.4	3	2	0	0	-	-	0.10	0.05
11-30-72	65	5.0	3	2	2	2	0.02	0.02	0.07	0.06

SAMPLE STATION 4 Weir 4										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
4-21-72	3,200		16	615						
5-23-72	2,133		23	589						
10-19-72	40.5		10.5	5						
11-30-72	65		10.5	8						

* Preliminary Survey

SAMPLE STATION 5 Weir 5										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	3.0								
4-21-72	6,200	3.2	203	15,115	0	0	0.42	31	1.70	127
5-23-72	5,867	3.1	156	10,992	0	0	0.29	20	6.3	444
10-19-72	1,200	2.8	250	3,603	0	0	-	-	12.3	177
11-30-72	2,200	3.7	130	3,435	0	0	0.12	3	4.5	119

SAMPLE STATION 5 Weir 5										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
4-21-72	6,200		350	26,061						
5-23-72	5,867		330	23,252						
10-19-72	1,200		273	3,934						
11-30-72	2,200		193	5,099						

* Preliminary Survey

SAMPLE STATION 6 Weir 6										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	3.5								
12-15-71	29	2.9	54	19	-	-	0.3	0.10	6.8	2.37
4-21-72	71	4.4	20	17	0	0	0.06	0.05	0.32	0.27
5-23-72	24	4.0	16	5	0	0	0.08	0.02	0.33	0.10
10-19-72	15.9	3.7	13	2	0	0	-	-	0.33	0.06
11-30-72	24	4.5	24	7	0	0	0.02	0.01	0.20	0.06

SAMPLE STATION 6 Weir 6										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
12-15-71	29		75	26						
4-21-72	71		34	29						
5-23-72	24		26	8						
10-19-72	15.9		31	6						
11-30-72	24		24	7						

* Preliminary Survey

SAMPLE STATION 7 Weir 7										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-04-70	*	4.0								
4-21-72	8,800	3.2	218	23,039	0	0	0.63	67	56.6	5982
5-25-72	4,432	2.9	221	11,763	0	0	0.55	29	8.0	426
10-19-72	1,153	3.0	260	3,600	0	0	-	-	16.7	231
12-05-72	2,150	4.1	80	2,066	0	0	0.03	1	5.8	150

SAMPLE STATION 7 Weir 7										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-04-70	*									
4-21-72	8,800		440	46,501						
5-25-72	4,432		470	25,016						
10-19-72	1,153		270	3,739						
12-05-72	2,150		140	3,615						

* Preliminary Survey

SAMPLE STATION 8 Weir 8										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-05-70	*	3.5								
12-15-71	229	2.5	500	1,375	-	-	230	633	250	688
4-21-72	100	2.9	694	833	0	0	4.38	5.3	131	157
5-25-72	112	2.5	766	1,030	0	0	18.4	25	220	296
10-19-72	112	3.0	750	1,009	0	0	-	-	236	317
12-05-72	112	3.4	1100	1,480	0	0	23.5	32	273	367

SAMPLE STATION 8 Weir 8										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-05-70	*									
12-15-71	229		1100	3,025						
4-21-72	100		2200	2,642						
5-25-72	112		2560	3,443						
10-19-72	112		1230	1,654						
12-05-72	112		1130	1,520						

* Preliminary Survey

SAMPLE STATION 9 Weir 9										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-05-70	*	4.0								
4-24-72	3,700	4.4	280	12,442	0	0	0.12	5.33	0.69	30.66
5-25-72	2,460	4.5	25	739	0	0	0.02	0.59	0.44	13.00
10-19-72	650	3.9	61	476	0	0	-	-	0.63	4.92
12-05-72	1,100	5.0	21	277	0	0	0.02	0.26	0.23	3.04

SAMPLE STATION 9 Weir 9										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-05-70	*									
4-24-72	3,700		86	3,821						
5-25-72	2,460		68	2,009						
10-19-72	650		156	1,218						
12-05-72	1,100		45	594						

* Preliminary Survey

SAMPLE STATION 10 Weir 10										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-05-70	*	3.0								
4-24-72	2,525	3.1	358	10,856	0	0	1.18	35.78	9.9	300
5-25-72	1,683	2.9	290	5,862	0	0	0.94	19.00	8.8	178
10-19-72	375	3.1	250	1,126	0	0	-	-	4.1	19
12-05-72	900	4.5	76	821	0	0	0.12	1.30	4.16	45

SAMPLE STATION 10 Weir 10										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-05-70	*									
4-24-72	2,525		700	21,227						
5-25-72	1,683		480	9,702						
10-19-72	375		255	1,148						
12-05-72	900		116	1,254						

* Preliminary Survey

SAMPLE STATION 11 Weir 11										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-06-70	*	6.5								
4-24-72	900	6.6	3	32.43	4	43.23	0.02	0.22	0.78	8.43
5-25-72	610	7.6	3	21.98	3	21.98	0.03	0.22	0.34	2.49
10-19-72	40.5	4.4	3	1.46	0	0	-	-	0.26	0.13
12-05-72	375	5.8	5	22.52	21	94.58	0.02	0.09	0.19	0.86

SAMPLE STATION 11 Weir 11										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-06-70	*									
4-24-72	900		21	227						
5-25-72	610		20	147						
10-19-72	40.5		17	8						
12-05-72	375		12.5	56						

* Preliminary Survey

SAMPLE STATION 12 Weir 12										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-06-70	*	4.0								
4-24-72	1,125	3.0	670	9,052	0	0	4.14	55.93	45.5	615
5-25-72	750	2.7	840	7,566	0	0	4.38	39.45	89.4	805
10-19-72	29	2.9	1150	401	0	0	-	-	88	31
12-05-72	450	3.5	370	2,000	0	0	0.71	3.84	16.8	91

SAMPLE STATION 12 Weir 12										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-06-70	*									
4-24-72	1,125		1100	14,862						
5-25-72	750		1720	15,493						
10-19-72	29		1230	428						
12-05-72	450		320	1,729						

* Preliminary Survey

SAMPLE STATION 13 Weir 13										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-06-70	*	3.0								
12-16-71	16	4.4	6	1.15	-	-	0	0	0.4	0.08
4-24-72	70	3.9	30	25.22	0	0	0.12	0.10	0.52	0.44
5-26-72	15	3.0	84	15.13	0	0	0.18	0.03	4.12	0.74
10-19-72	5.13	3.5	50	3.08	0	0	-	-	4.7	0.29
12-06-72	7.16	3.9	60	5.16	0	0	0.02	0	5.5	0.47

SAMPLE STATION 13 Weir 13										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-06-70	*									
12-16-71	16		34	7						
4-24-72	70		94	79						
5-26-72	15		290	52						
10-19-72	5.13		200	12						
12-06-72	7.16		150	13						

* Preliminary Survey

SAMPLE STATION 14 Weir 14										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-07-70	*	3.0								
12-16-71	3.5	1.8	2,300	97	-	-	65	2.73	475	19.97
4-24-72	40	2.6	5,630	2,705	0	0	29.2	14.03	163	78.30
5-26-72	34	2.3	5,960	2,434	0	0	58	23.68	147	60.02
10-19-72	3.49	2.8	4,800	201	0	0	-	-	440	18.44
12-06-72	12.5	3.3	4,500	676	0	0	35.5	5.33	395	59.30

SAMPLE STATION 14 Weir 14										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-07-70	*									
12-16-71	3.5		3,800	160						
4-24-72	40		7,200	3,459						
5-26-72	34		9,700	3,961						
10-19-72	3.49		6,800	285						
12-06-72	12.5		5,000	751						

* Preliminary Survey

SAMPLE STATION 15 Weir 15										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-07-70	*	3.5								
12-16-71	7	3.8	22	1.85	-	-	0	0	0.2	0.02
4-24-72	3.5	4.7	25	1.05	6	0.25	0.12	0.01	0.5	0.02
5-26-72	29	4.3	31	10.80	0	0	0.02	0.01	0.33	0.12
10-19-72	1	3.8	21	0.25	0	0	-	-	0.47	0.01
12-06-72	24.1	4.5	70	20.26	0	0	0.03	0.01	0.18	0.05

SAMPLE STATION 15 Weir 15										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-07-70	*									
12-16-71	7		44	3.70						
4-24-72	3.5		44	1.85						
5-26-72	29		65	22.64						
10-19-72	1		54.5	0.65						
12-06-72	24.1		75	21.71						

* Preliminary Survey

SAMPLE STATION 16 Weir 16										
Date	Flow GPM	pH	Acidity		Alkalinity		Ferrous Iron		Total Iron	
			mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D	mg/l	lbs/D
5-08-70	*	3.0								
12-16-71	1	2.7	44	0.53	-	-	0	0	1.2	0.01
4-24-72	20	3.8	256	61.49	0	0	0.12	0.03	10.9	2.62
5-26-72	20	3.0	286	68.69	0	0	0.02	0.01	23.0	5.52
10-19-72	DRY									
12-06-72	15.9	4.5	60	11.46	0	0	0.03	0.01	4.4	0.84

SAMPLE STATION 16 Weir 16										
Date	Flow GPM		Sulfates							
			mg/l	lbs/D						
5-08-70	*									
12-16-71	1		40	0.5						
4-24-72	20		650	156.1						
5-26-72	20		660	158.5						
10-19-72	DRY									
12-06-72	15.9		180	34.4						

* Preliminary Survey