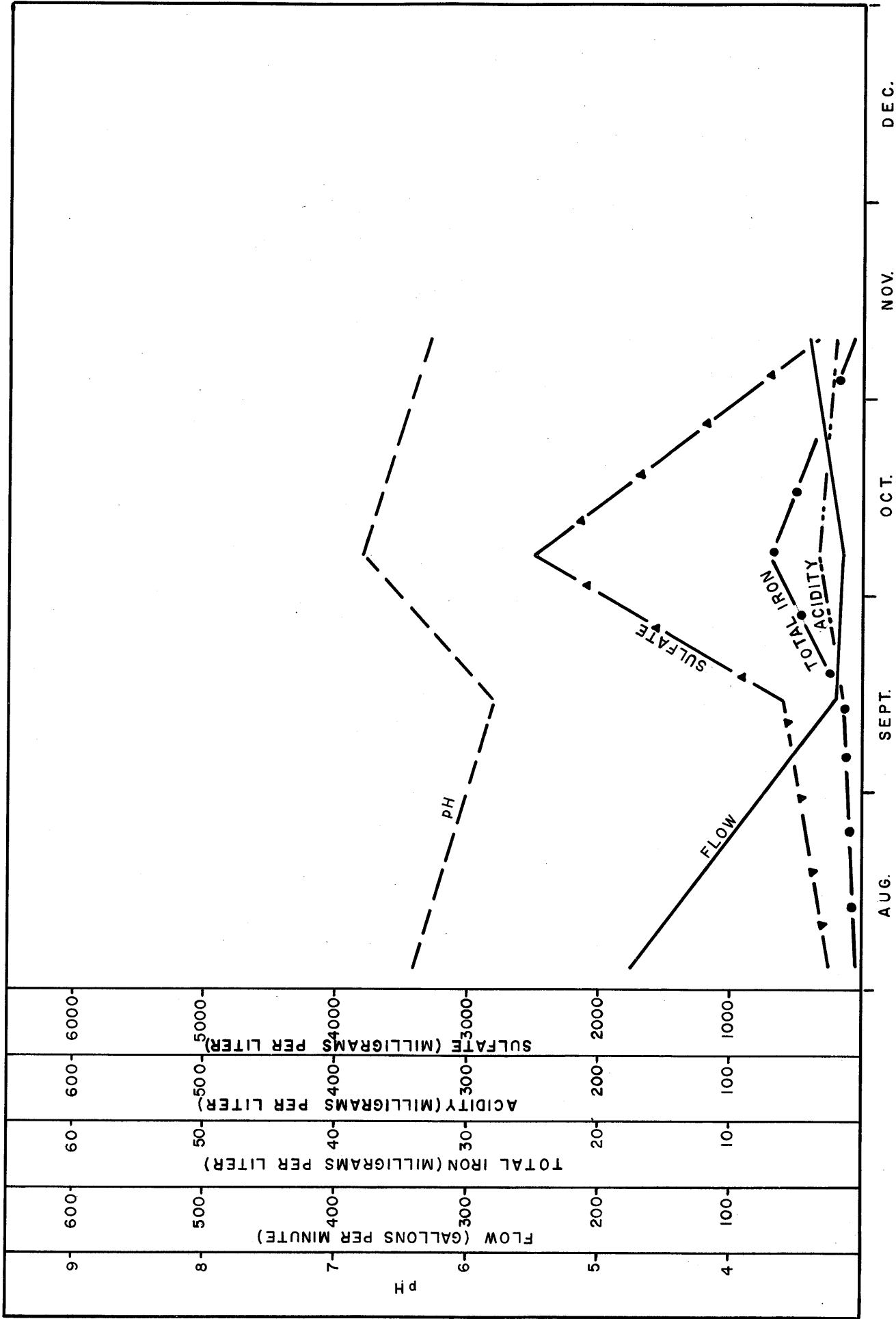


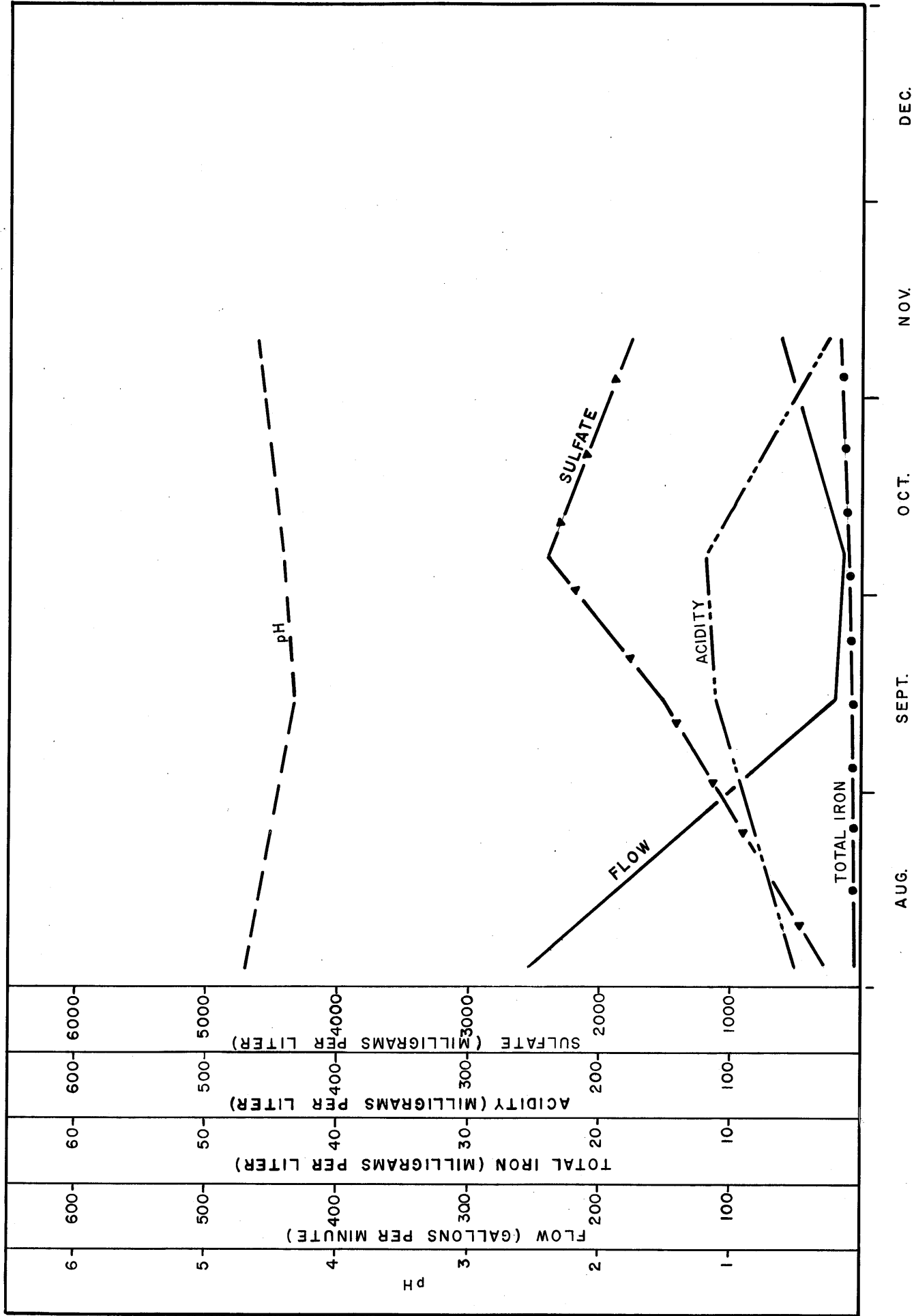
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FIGURES

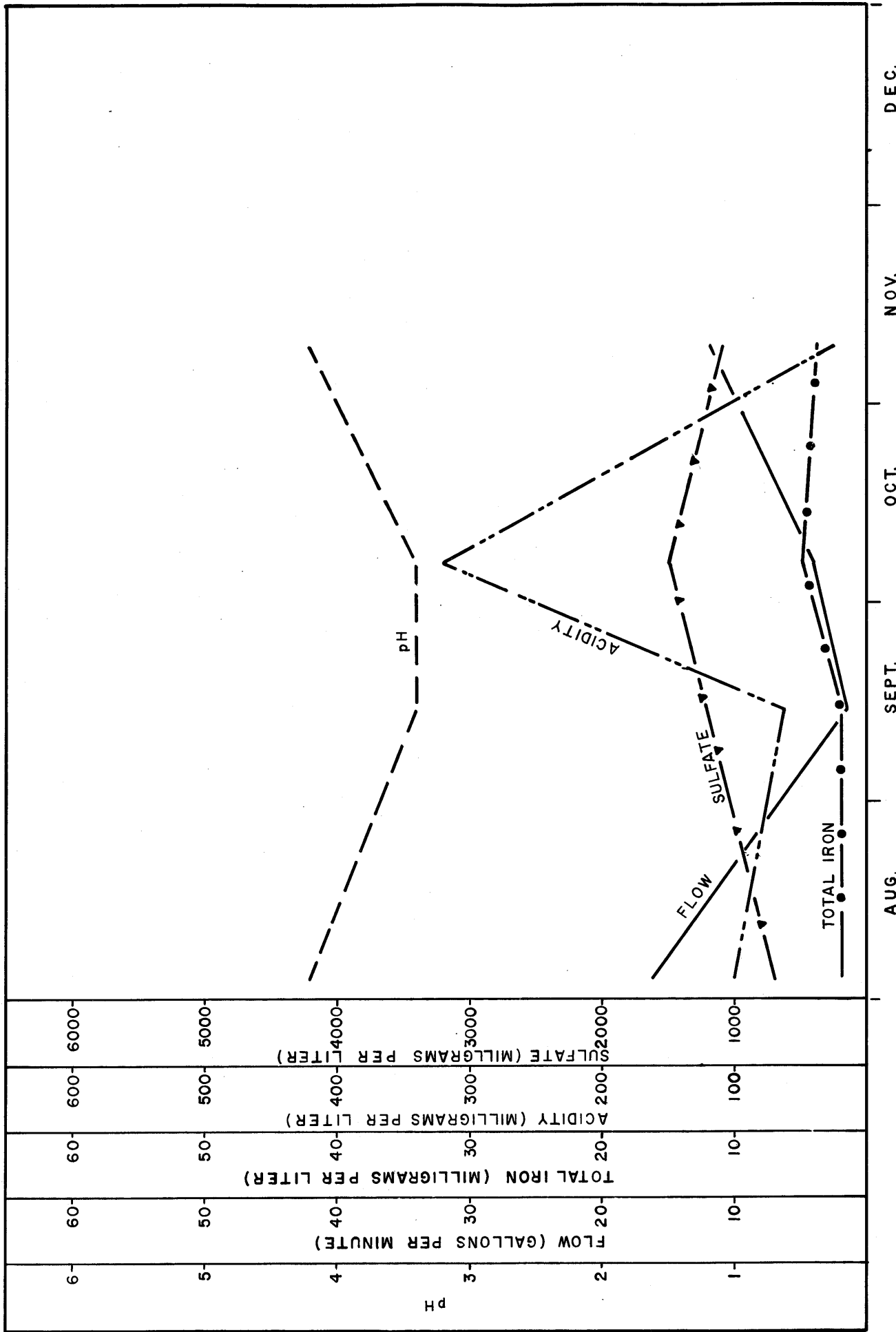


WATER QUALITY CHART
SAMPLE POINT 8

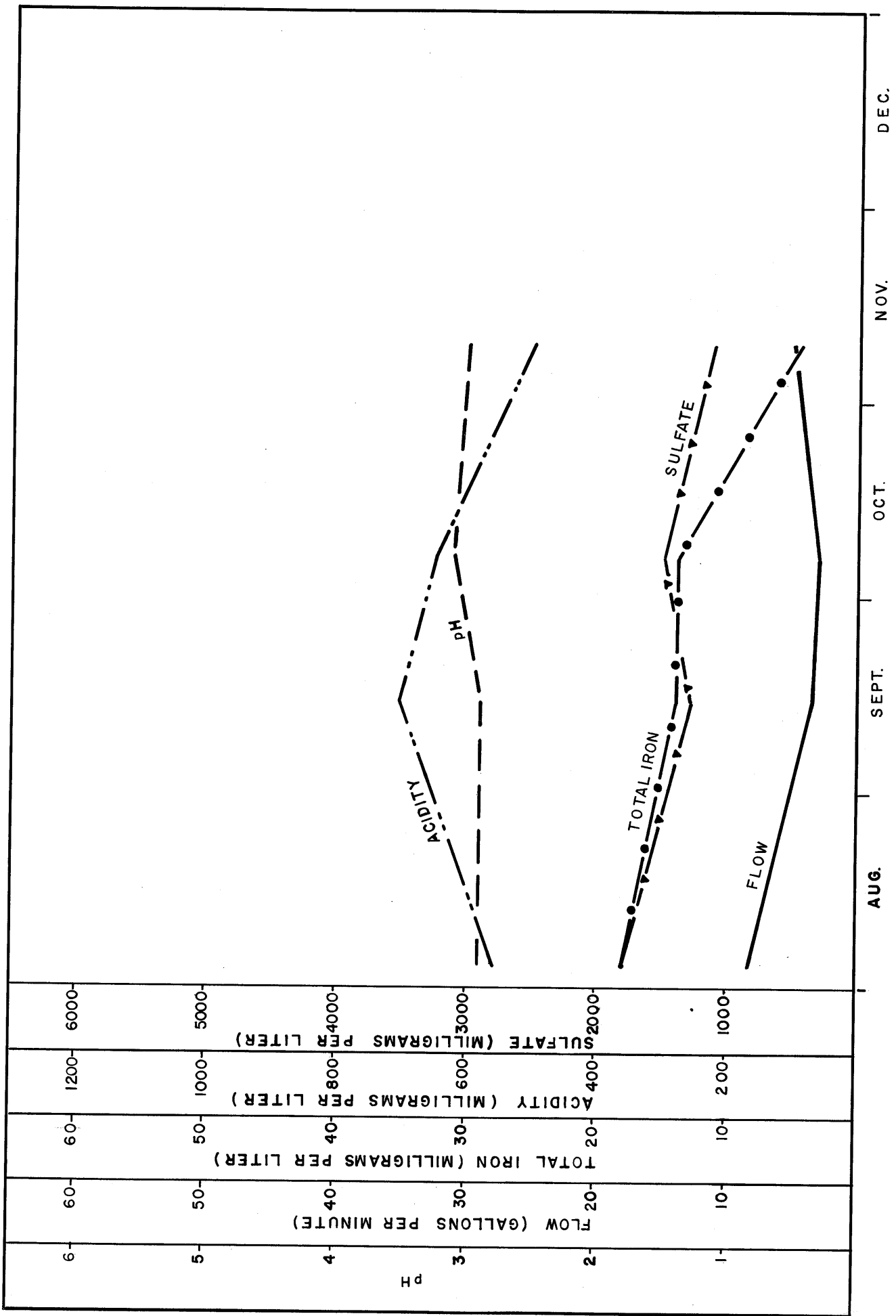
FIGURE 1



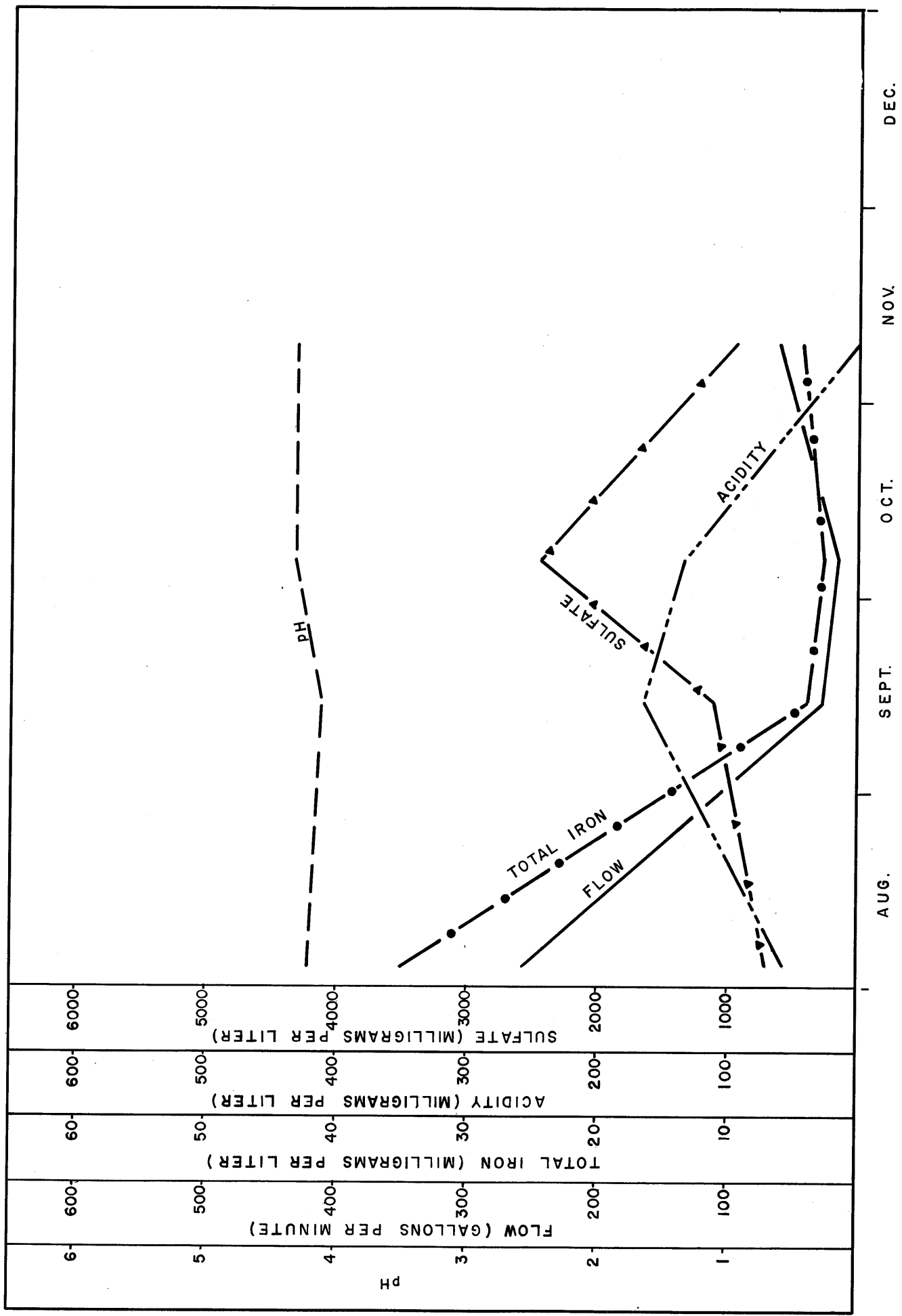
WATER QUALITY CHART
SAMPLE POINT 9



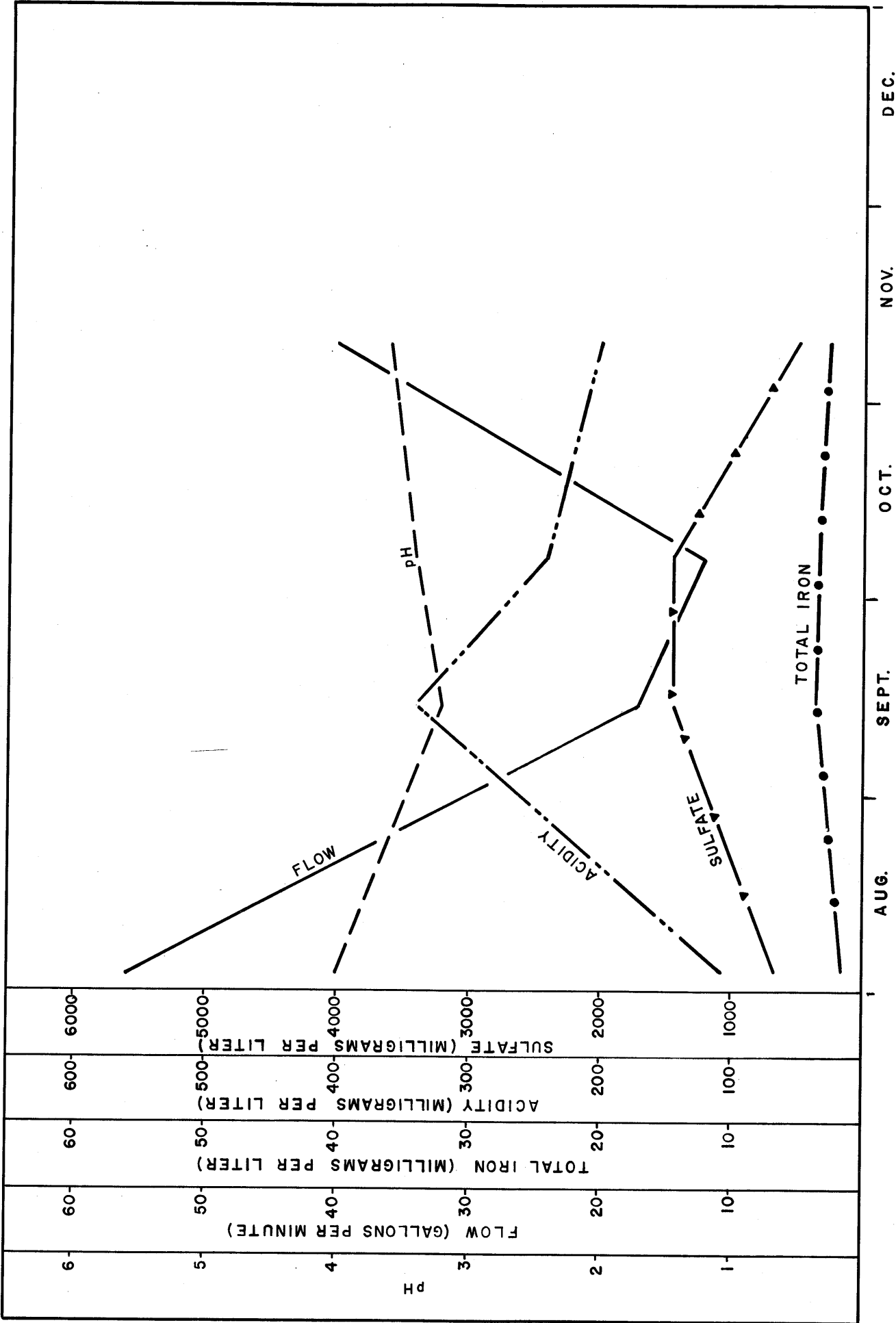
WATER QUALITY CHART
SAMPLE POINT II



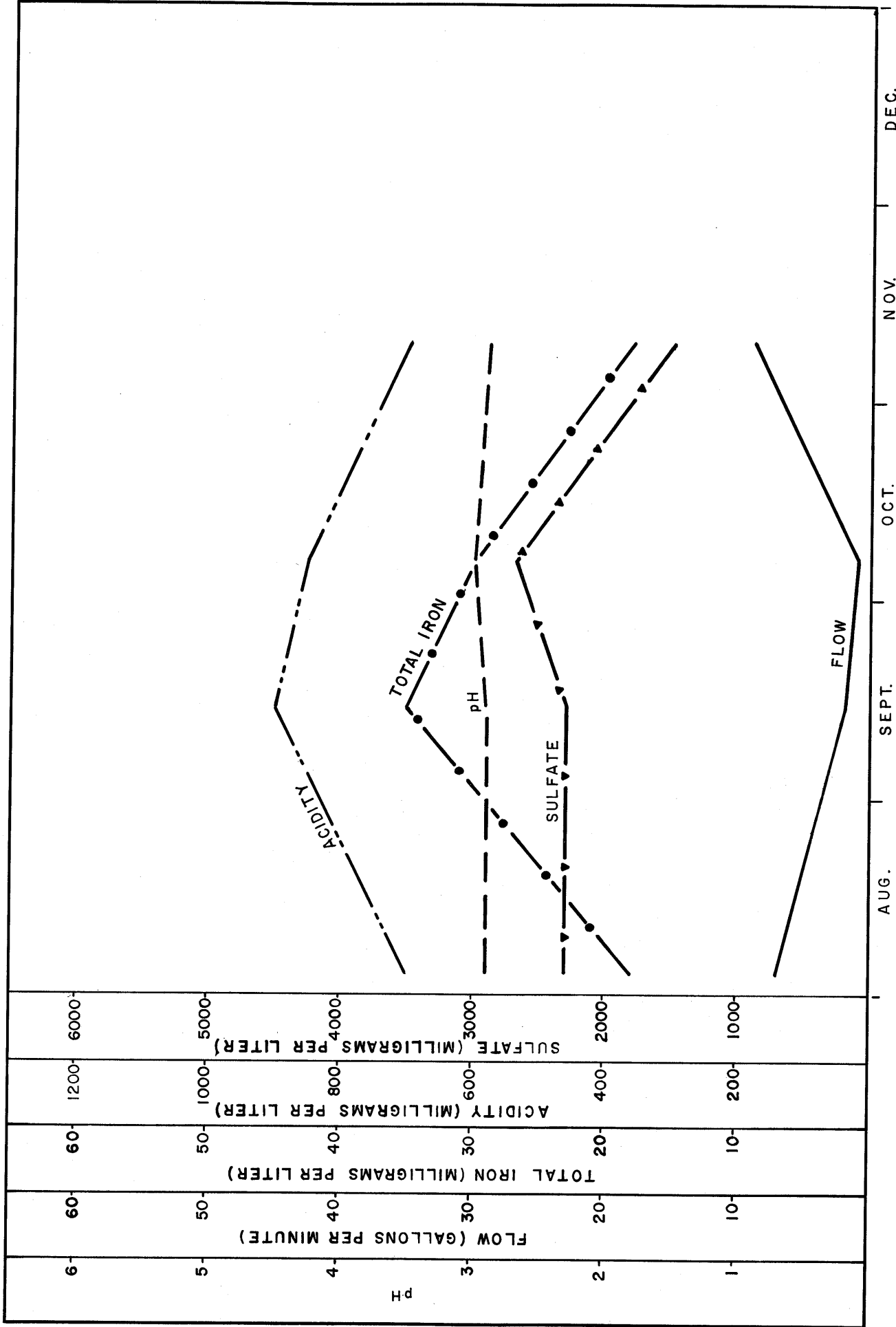
WATER QUALITY CHART
SAMPLE POINT 12



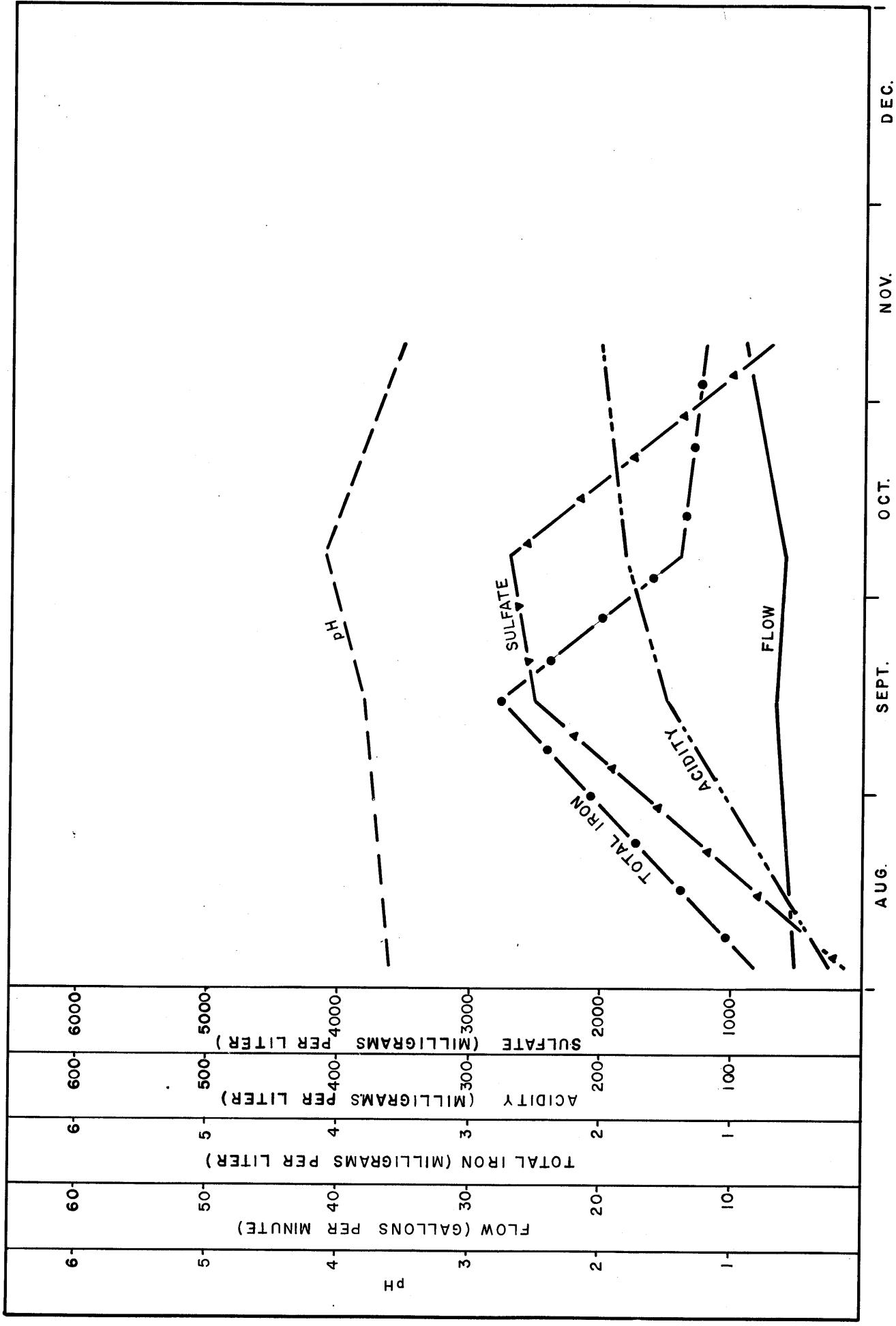
WATER QUALITY CHART
SAMPLE POINT 13



WATER QUALITY CHART
SAMPLE POINT 15



WATER QUALITY CHART
SAMPLE POINT 16



WATER QUALITY CHART
SAMPLE POINT 17

FIGURE 8

TABLE I												
SAMPLE POINT NUMBER	pH				FLOW (GALLONS PER MINUTE)				SULFATE (MILLIGRAMS PER LITER)			
	AUG. 1	SEPT. 14	OCT. 6	NOV. 9	AUG. 1	SEPT. 14	OCT. 6	NOV. 9	AUG. 1	SEPT. 14	OCT. 6	NOV. 9
1	6.8	6.2	6.8	7.2	N.R*	N.R	N.R	N.R	260	360	360	140
2	7.3	7.7	N.S †	N.S	297	63	N.S	N.S	190	145	N.S	N.S
3	7.0	6.5	N.S	N.S	1247	116	N.S	N.S	385	560	N.S	N.S
4	6.5	7.0	N.S	N.S	1544	179	N.S	N.S	320	480	N.S	N.S
5	6.8	7.4	7.8	7.8	73	1	1	17	140	160	120	100
6	7.1	7.3	N.S	N.S	95	8	N.S	N.S	120	160	N.S	N.S
7	6.4	4.4	N.S	N.S	430	38	N.S	N.S	580	650	N.S	N.S
8	6.4	5.8	6.8	6.3	176	18	15	40	240	570	2500	310
9	4.7	4.3	4.4	4.6	254	20	15	60	260	1500	2400	1750
10	4.4	4.4	N.S	N.S	168	67	N.S	N.R	660	1200	N.S	N.S
11	4.2	3.4	3.4	4.2	16	2	4	12	700	1200	1500	1100
12	2.9	2.9	3.1	3.0	8	4	3	5	1800	1300	1500	1100
13	4.2	4.1	4.3	4.3	257	28	15	60	680	1100	2450	950
14	4.0	3.4	N.S	N.S	194	27	N.S	N.S	570	1300	N.S	N.S
15	4.0	3.2	3.4	3.6	56	17	12	40	680	1450	1450	500
16	2.9	2.9	3.0	2.9	7	2	1	9	2300	2300	2700	1500
17	3.6	3.8	4.1	3.5	5	7	6	9	110	2500	2700	700
18	2.9	3.3	3.0	2.9	14	8	6	12	1700	750	1700	1050
19	5.7	3.3	3.7	4.2	20	3	3	8	400	900	2300	1100
20	2.8	2.8	2.9	2.8	2	2	1	2	1900	1450	2000	1100
21	6.1	6.5	N.S	N.S	3	1	N.S	N.S	560	325	N.S	N.S

* N.R. - NO FLOW READING TAKEN

† N.S. - NO SAMPLE OR FLOW READING TAKEN

GENERAL ANALYTICS, INC. CONSULTING ENGINEERS MONROEVILLE, PENNSYLVANIA		FIELD AND LABORATORY TEST RESULTS MINE DRAINAGE ABATEMENT SURVEY PIERSONS RUN WATERSHED ALLEGHENY COUNTY, PENNSYLVANIA			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES CONTRACT NO. SL-157		DWN. BY	F.A.F.	3-3-71	SCALE NONE
		CKD. BY	M.T.D.	3-3-71	DRAWING NO.
		APPR'D.	R.E.G.	3-3-71	69-209-B7

TABLE I (CONTINUED)

SAMPLE POINT NUMBER	TOTAL IRON (MILLIGRAMS PER LITER)				ACIDITY (MILLIGRAMS PER LITER)				ALKALINITY (MILLIGRAMS PER LITER)			
	AUG. 1	SEPT. 14	OCT. 6	NOV. 9	AUG. 1	SEPT. 14	OCT. 6	NOV. 9	AUG. 1	SEPT. 14	OCT. 6	NOV. 9
1	0.5	0.4	1.1	0.1	0.0	0.0	0.0	0.0	50.0	32.0	28.0	40.0
2	0.1	0.5	N.S †	N.S	0.0	0.0	N.S	N.S	92.0	80.0	N.S	N.S
3	0.9	0.5	N.S	N.S	0.0	0.0	N.S	N.S	30.0	10.0	N.S	N.S
4	0.8	0.6	N.S	N.S	0.0	0.0	N.S	N.S	38.0	34.0	N.S	N.S
5	0.5	11.5	0.1	0.4	0.0	0.0	0.0	0.0	78.0	94.0	76.0	88.0
6	0.7	3.5	N.S	N.S	0.0	0.0	N.S	N.S	92.0	92.0	N.S	N.S
7	0.8	1.3	N.S	N.S	14.0	64.0	N.S	N.S	0.0	0.0	N.S	N.S
8	0.4	1.6	7.0	0.4	0.0	14.0	34.0	20.0	0.0	0.0	0.0	0.0
9	0.5	0.6	1.1	1.9	50.0	110.0	120.0	26.0	0.0	0.0	0.0	0.0
10	0.1	2.5	N.S	N.S	56.0	80.0	N.S	N.S	0.0	0.0	N.S	N.S
11	2.0	2.0	5.0	3.8	100.0	64.0	320.0	26.0	0.0	0.0	0.0	0.0
12	18.0	14.0	14.0	4.3	550.0	700.0	650.0	500.0	0.0	0.0	0.0	0.0
13	35.0	3.8	2.8	4.3	56.0	164.0	134.0	0.0	0.0	0.0	0.0	0.0
14	4.3	3.0	N.S	N.S	105.0	265.0	N.S	N.S	0.0	0.0	N.S	N.S
15	1.6	3.6	3.3	2.8	106.0	340.0	240.0	200.0	0.0	0.0	0.0	0.0
16	18.0	35.0	30.0	18.0	700.0	900.0	850.0	700.0	0.0	0.0	0.0	0.0
17	0.8	2.8	1.4	1.2	24.0	148.0	180.0	200.0	0.0	0.0	0.0	0.0
18	25.0	16.0	17.5	18.0	600.0	100.0	600.0	500.0	0.0	0.0	0.0	0.0
19	2.3	20.0	5.0	11.5	10.0	300.0	198.0	4.0	0.0	0.0	0.0	0.0
20	40.0	32.5	27.5	33.0	550.0	600.0	750.0	650.0	0.0	0.0	0.0	0.0
21	15.0	1.0	N.S	N.S	0.0	0.0	N.S	N.S	24.0	90.0	N.S	N.S

† N.S. - NO SAMPLE OR FLOW READING TAKEN

GENERAL ANALYTICS, INC. CONSULTING ENGINEERS MONROEVILLE, PENNSYLVANIA		FIELD AND LABORATORY TEST RESULTS MINE DRAINAGE ABATEMENT SURVEY PIERSONS RUN WATERSHED ALLEGHENY COUNTY, PENNSYLVANIA			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES CONTRACT NO. SL-157		DWN. BY	F.A.F.	3-3-71	SCALE NONE
		CKD. BY	M.T.D.	3-3-71	DRAWING NO. 69-209-B8
		APPR'D.	R.E.G.	3-3-71	

TABLE II												
SAMPLE POINT NUMBER	pH		FLOW (GALLONS PER MINUTE)		SULFATE (POUNDS PER DAY)		TOTAL IRON (POUNDS PER DAY)		ACIDITY (POUNDS PER DAY)		ALKALINITY (POUNDS PER DAY)	
	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
1	7.2	6.2	NR*	NR	—	—	—	—	—	—	—	—
2	7.7	7.3	297	63	677.0	109.0	0.4	0.4	0.0	0.0	327.5	60.5
3	7.0	6.5	1247	116	1779.0	779.5	13.5	0.7	0.0	0.0	449.0	13.9
4	7.0	6.5	1544	179	5929.0	1031.0	14.8	1.3	0.0	0.0	704.1	73.0
5	7.8	6.8	73	1	123.0	1.9	0.4	0.1	0.0	0.0	68.6	0.9
6	7.3	7.1	95	8	137.0	14.4	0.8	0.3	0.0	0.0	104.9	8.3
7	6.4	4.4	430	38	4037.0	294.8	4.1	0.6	72.2	29.1	0.0	0.0
8	6.8	5.8	176	15	691.0	123.1	1.2	0.2	9.6	0.0	0.0	0.0
9	4.7	4.3	254	15	1260.0	356.4	1.5	0.1	152.5	18.8	0.0	0.0
10	4.4	4.4	168	67	1331.0	963.4	2.0	0.2	113.1	64.2	0.0	0.0
11	4.2	3.4	16	2	158.4	23.1	0.5	0.1	19.0	1.2	0.0	0.0
12	3.1	2.9	8	3	173.0	1.8	0.3	0.3	55.0	23.4	0.0	0.0
13	4.3	4.1	257	15	2097.0	36.4	107.8	1.3	172.5	24.1	0.0	0.0
14	4.0	3.4	194	27	1327.0	42.1	9.9	0.1	244.7	85.8	0.0	0.0
15	4.0	3.2	56	12	457.0	29.6	1.3	0.5	96.0	34.6	0.0	0.0
16	3.0	2.9	9	1	193.0	32.4	1.9	0.4	75.6	10.2	0.0	0.0
17	4.1	3.5	9	5	195.0	7.0	0.2	0.1	21.6	1.4	0.0	0.0
18	3.3	2.9	14	6	286.0	72.0	4.2	1.2	102.0	9.6	0.0	0.0
19	5.7	3.3	20	3	105.6	27.0	1.1	0.2	7.1	0.4	0.0	0.0
20	2.9	2.8	2	1	46.0	24.0	0.8	0.3	15.6	9.0	0.0	0.0
21	6.6	6.1	3	1	40.8	2.0	0.6	0.1	0.0	0.0	0.1	0.5

*N.R. - NO FLOW READING TAKEN

GENERAL ANALYTICS, INC. CONSULTING ENGINEERS MONROEVILLE, PENNSYLVANIA		CALCULATED WATER QUALITY RANGE MINE DRAINAGE ABATEMENT SURVEY PIERSONS RUN WATERSHED ALLEGHENY COUNTY, PENNSYLVANIA			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES CONTRACT NO. SL-157		DWN. BY	F.A.F.	3-3-71	SCALE NONE
		CKD. BY	M.T.D.	3-3-71	DRAWING NO. 69-209-B9
		APPR'D.	R.E.G.	3-3-71	