APPENDIX - B

Arnot Discharge Data

Arnot 001

ROW	DATE	PH	TEMP	ACIDITY	ALK	TOT. FE	FFE	SO4	CA	MG	MN	AL	DISCH	flow gpm	DATE
1	1/28/80	5.02	ND	12	4	0.2	0.1	180	ND	ND	ND	ND	0.531	238.33	29248
2	2/29/80	4.86	9.8	23	4	0.2	0.2	96	ND	ND	ND	ND	0.291	130.61	29280
3	3/31/80	5.08	7.6	9	4	0.3	0.2	91	ND	ND	ND	ND	2.375	1065.97	29311
4	4/22/80	5.03	8.4	14	8	0.4	0.3	122	ND	ND	ND	ND	1.474	661.58	29333
5	5/10/80	4.83	9.2	13	7	0.3	0.2	141	93	77	1.58	0.63	1.240	556.55	29351
6	5/31/80	4.82	10.8	12	8	0.2	0.0	177	96	67	1.62	0.70	0.514	230.70	29372
7	6/18/80	4.70	11.0	27	3	0.2	0.1	181	118	64	1.69	3.64	0.446	200.18	29390
8	6/30/80	4.68	11.3	23	2	0.3	0.3	186	107	82	1.68	0.73	0.366	164.27	29402
9	7/19/80	4.50	9.9	28	0	0.2	0.1	177	111	82	1.34	0.81	0.466	209.15	29421
10	8/12/80	4.73	11.2	31	7	0.2	0.1	204	121	80	1.85	1.57	0.241	108.17	29445
11	8/27/80	4.68	12.9	24	6	0.3	0.2	206	115	90	1.86	1.39	0.241	108.17	29460
12	9/11/80	4.89	9.8	31	6	0.3	0.2	182	133	95	1.78	2.67	0.196	87.97	29475
13	9/27/80	4.91	8.9	28	6	0.2	0.2	193	135	99	1.92	2.71	0.150	67.32	29491
14	10/16/80	4.66	9.3	35	5	0.3	0.2	240	136	124	1.71	2.87	0.209	93.81	29510
15	11/7/80	4.97	9.6	41	37	0.1	0.1	211	130	113	2.44	1.93	0.209	93.81	29532
16	11/30/80	4.20	8.6	28	0	0.1	0.1	259	144	114	1.87	2.23	0.209	93.81	29555
17	12/18/80	4.75	7.6	28	5	0.3	0.3	231	152	103	2.52	3.19	0.209	93.81	29573
18	1/5/81	4.92	9.1	26	18	0.2	0.1	179	146	145	2.67	2.29	0.209	93.81	29591
19	1/19/81	4.77	7.5	27	9	0.3	0.1	228	139	141	2.70	2.60	0.178	79.89	29605
20	1/31/81	4.92	9.1	26	18	0.2	0.1	179	141	127	2.68	2.87	0.193	86.62	29617
21	2/19/81	5.02	7.0	8	7	0.3	0.2	117	70	67	0.82	0.19	0.010	4.49	29636
22	3/8/81	5.07	8.0	16	7	0.1	0.1	159	80	76	1.61	0.92	1.332	597.84	29653
23	3/21/81	5.03	8.0	15	6	0.1	0.1	151	83	87	1.41	0.91	0.718	322.26	29666
24	4/11/81	5.02	8.7	6	18	0.2	0.0	140	91	76	1.50	0.36	0.718	322.26	29687
25	4/30/81	5.38	8.3	12	12	0.2	0.2	131	79	69	1.28	0.22	1.063	477.11	29706
26	5/16/81	5.45	8.3	10	16	0.2	0.0	134	76	76	1.04	0.27	1.332	597.84	29722
27	5/29/81	5.03	9.0	11	5	0.3	0.1	124	96	68	1.41	0.50	0.862	386.89	29735
28	6/18/81	5.13	12.0	10	5	0.2	0.1	154	120	80	1.79	0.97	0.542	243.27	29755
29	6/30/81	5.10	8.9	9	11	0.2	0.0	151	90	86	1.24	ND	0.673	302.06	29767
30	7/13/81	4.95	9.4	16	7	0.2	0.2	140	99	90	1.55	0.35	0.584	262.12	29780
31	7/28/81	4.72	8.6	19	6	0.2	0.2	188	129	81	2.33	0.94	0.420	188.51	29795
32	8/30/81	4.84	11.3	28	4	0.2	0.0	195	120	105	2.49	2.04	0.274	122.98	29828
33	9/29/81	4.63	9.1	31	7	0.2	0.1	210	130	118	3.95	2.28	0.209	93.81	29858
34	10/15/81	4.50	9.8	33	0	0.2	0.2	244	129	125	3.80	2.52	0.209	93.81	29874
35	10/29/81	4.69	9.1	39	6	0.2	0.1	205	124	111	2.75	2.08	0.241	108.17	29888
36	12/8/81	4.82	7.9	12	5	0.2	0.2	186	102	92	2.17	1.51	0.459	206.01	29928
37	12/16/81	4.84	8.3	15	14	0.2	0.2	189	108	83	1.77	1.12	0.420	188.51	29936
38	1/6/82	5.04	7.8	13	8	0.2	0.0	185	111	75	1.87	1.70	0.500	224.42	29957
39	1/14/82	5.02	ND	12	8	0.2	0.1	106	79	46	1.02	0.68	0.673	302.06	29965

ROW	DATE	PH	TEMP	ACIDITY	ALK	TOT. FE	FFE	SO4	CA	MG	MN	AL	DISCH	flow gpm	DATE
40	2/23/82	5.22	7.3	16	5	0.3	0.2	160	ND	ND	ND	ND	0.861	386.44	30005
41	3/2/82	5.01	8.4	10	4	0.2	0.1	172	115	58	1.16	0.10	0.673	302.06	30012
42	3/31/82	5.05	8.9	8	7	0.2	0.0	107	80	58	0.98	0.25	2.912	1306.99	30041
43	5/6/82	5.13	9.0	13	14	0.3	0.2	124	110	54	0.95	0.50	0.910	408.44	30077
44	5/19/82	4.96	ND	19	7	0.2	0.2	148	99	101	ND	ND	0.584	262.12	30090
45	5/26/82	4.78	ND	12	9	0.2	0.0	118	100	83	0.74	0.87	0.628	281.87	30097
46	6/2/82	4.92	ND	64	11	0.2	0.0	151	95	82	0.68	0.58	0.765	343.35	30104
47	6/10/82	5.34	ND	10	16	0.4	0.2	99	66	51	0.85	0.51	3.484	1563.72	30112
48	6/11/82	5.10	9.2	8	11	0.3	0.2	130	68	77	0.95	0.27	3.124	1402.14	30113
49	6/16/82	4.94	9.0	10	9	0.3	0.1	170	118	46	1.11	0.45	1.984	890.48	30118
50	6/25/82	4.92	10.0	14	9	0.2	0.1	186	125	42	1.22	0.56	1.168	524.23	30127
51	6/30/82	5.19	ND	13	8	0.2	0.1	185	93	71	1.39	0.70	0.910	408.44	30132
52	7/1/82	4.91	9.8	11	4	0.2	0.2	148	96	74	1.31	0.61	0.861	386.44	30133
53	7/8/82	4.84	9.8	11	3	0.2	0.2	141	103	72	1.38	0.79	0.178	79.89	30140
54	7/16/82	4.67	10.9	15	13	0.0	0.0	161	102	76	1.60	0.78	0.565	253.59	30148
55	7/28/82	4.78	ND	17	4	0.2	0.1	169	102	87	1.57	1.58	0.437	196.14	30160
56	8/6/82	4.72	ND	15	4	0.2	0.1	171	101	92	1.70	2.00	0.378	169.66	30169
57	8/12/82	4.74	10.5	41	3	0.2	0.2	202	ND	ND	1.68	2.27	0.355	159.33	30175
58	8/17/82	4.69	ND	22	2	0.1	0.0	211	114	93	2.01	ND	0.325	145.87	30180
59	8/26/82	4.67	12.2	25	2	0.0	0.0	198	124	109	0.54	2.96	0.289	129.71	30189
60	9/12/82	4.65	12.5	25	2	0.1	0.1	201	123	104	1.18	2.55	0.246	110.41	30206
61	10/2/82	4.54	11.7	26	2	0.2	0.1	252	130	130	2.24	2.73	0.219	98.29	30226
62	10/16/82	4.48	9.6	40	1	0.2	0.1	238	130	107	2.17	2.64	0.187	83.93	30240
63	10/30/82	4.57	11.7	40	1	0.1	0.1	212	142	107	2.75	3.08	0.210	94.25	30254
64	11/5/82	4.42	ND	31	0	0.1	0.1	252	143	95	2.70	ND	0.199	89.32	30260
65	11/24/82	4.58	7.8	39	2	0.2	0.0	240	137	130	2.66	3.22	0.166	74.51	30279
66	12/16/82	4.59	9.2	37	2	0.2	0.2	277	127	118	2.09	2.98	0.188	84.38	30301
67	1/8/83	4.57	7.8	31	0	0.2	0.0	254	127	128	2.39	3.22	0.216	96.95	30324
68	2/5/83	4.84	7.8	10	4	0.2	0.1	159	150	31	1.45	0.44	0.565	253.59	30352
69	3/1/83	4.94	ND	22	5	0.1	0.0	191	104	116	1.49	1.46	0.569	255.38	30376
70	4/6/83	5.06	8.3	3	6	0.2	0.1	182	82	62	1.29	0.80	1.613	723.96	30412
71	4/23/83	4.97	9.0	6	4	0.2	0.1	125	70	69	1.40	0.60	2.617	1174.59	30429
72	5/5/83	4.86	8.6	9	3	0.2	0.1	171	66	41	0.96	0.51	5.091	2284.99	30441
73	5/10/83	4.99	ND	16	5	0.3	0.1	66	80	77	0.67	1.16	3.032	1360.85	30446
74	5/20/83	4.92	9.2	4	6	0.2	0.1	92	75	70	1.41	1.15	2.112	947.93	30456
75	5/31/83	4.92	8.9	7	6	0.1	0.0	140	81	61	1.32	0.66	1.382	620.28	30467
76	6/14/83	4.81	9.3	8	5	0.2	0.1	132	98	62	1.76	0.69	0.821	368.49	30481
77	6/30/83	4.76	9.7	15	4	0.3	0.1	169	125	54	1.05	0.41	0.673	302.06	30497
78	7/16/83	4.67	11.8	31	3	0.2	0.1	180	118	93	1.92	0.92	0.568	254.94	30513
79	8/2/83	4.64	11.7	23	3	0.2	0.1	189	123	79	1.90	1.60	0.448	201.08	30530
80	8/5/83	4.65	ND	20	2	0.3	0.1	167	123	87	1.92	1.68	0.425	190.75	30533

ROW	DATE	PH	TEMP	ACIDITY	ALK	TOT. FE	FFE	SO4	CA	MG	MN	AL	DISCH	flow gpm	DATE
81	8/14/83	4.68	12.2	25	3	0.4	0.2	220	116	91	2.03	1.94	0.364	163.37	30542
	MAX	5.45	12.90	64.00	37.00	0.40	0.30	277.00	152.00	145.00	3.95	3.64	5.09		
	MIN	4.20	7.00	3.00	0.00	0.00	0.00	66.00	66.00	31.00	0.54	0.10	0.01		
	AVG	4.85	9.45	20.04	6.46	0.21	0.12	173.23	109.52	86.05	1.71	1.43	0.80		
	MED	4.85	9.45	20.04	6.46	0.21	0.12	173.23	109.52	82.00	1.71	1.43	0.80		

Arnot 003

ROW	DATE	PH	TEMP	DISCH	ACIDITY	ACIDLD	ALK	ALKLD	TFE	TFELD	FE	FELD	SO4	SO4LD	CA	CALD	MG	MGLD	MN	MNLD	AL	ALLD
1	1/28/80	3.35	m.v.	0.190	69	32.04	0	0	1.2	0.56	0.5	0.23	162	75.23	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.
2	2/29/80	3.31	8.5	0.117	119	34.14	0	0	1.2	0.34	0.4	0.12	180	51.64	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.
3	3/31/80	3.50	m.v.	0.494	47	56.80	0	0	1.1	1.33	0.3	0.36	93	112.39	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.
4	4/22/80	3.42	8.4	0.360	58	51.05	0	0	1.2	1.06	0.2	0.18	119	104.74	m.v.	m.v.	m.v.	m.v.	1.85	1.63	3.31	2.91
5	5/10/80	3.24	8.5	0.360	70	61.61	0	0	1.0	0.88	0.3	0.26	149	131.14	58	51.05	45	39.61	1.92	1.69	3.76	3.31
6	5/31/80	3.21	8.5	0.360	70	61.61	0	0	0.8	0.70	0.0	0.00	148	130.26	55	48.41	51	44.89	2.40	2.11	3.45	3.04
7	6/18/80	3.29	8.7	0.219	90	48.16	0	0	0.8	0.43	0.3	0.16	169	90.43	61	32.64	66	35.32	2.73	1.46	5.16	2.76
8	6/30/80	3.29	8.9	0.139	81	27.58	0	0	0.8	0.27	0.3	0.10	177	60.26	61	20.77	56	19.07	2.87	0.98	0.88	0.30
9	7/19/80	3.21	8.9	0.128	107	33.61	0	0	0.7	0.22	0.2	0.06	181	56.85	59	18.53	67	21.04	2.48	0.78	4.36	1.40
10	8/12/80	3.26	8.9	0.117	106	30.41	0	0	0.9	0.26	0.6	0.17	208	59.68	66	18.94	70	20.08	4.70	1.35	6.12	1.76
11	8/27/80	3.26	9.0	0.106	99	25.67	0	0	1.0	0.26	0.7	0.18	197	53.93	69	17.89	68	17.63	4.55	1.18	3.85	1.00
12	9/11/80	3.37	8.4	0.092	89	20.13	0	0	1.0	0.23	0.4	0.09	208	47.05	71	16.06	78	17.64	3.70	0.84	5.80	1.31
13	9/27/80	3.37	8.5	0.087	104	22.08	0	0	1.0	0.21	0.4	0.09	191	40.56	74	15.71	72	15.29	4.20	0.89	6.64	1.41
14	10/16/80	3.23	8.9	0.080	102	19.97	0	0	1.0	0.20	0.2	0.04	214	41.89	69	13.51	89	17.42	4.40	0.86	7.09	1.39
15	11/7/80	3.41	8.9	0.072	97	17.16	0	0	0.9	0.16	0.4	0.07	225	39.80	74	13.09	99	17.51	4.90	0.87	7.39	1.31
16	11/30/80	3.31	7.8	0.065	109	17.35	0	0	0.9	0.14	0.1	0.02	218	34.70	77	12.26	95	15.12	4.65	0.74	6.60	1.05
17	12/8/80	3.24	6.9	0.065	108	17.19	0	0	1.2	0.19	0.5	0.08	232	36.93	90	14.33	96	15.28	5.90	0.94	9.40	1.50
18	1/5/81	3.36	6.9	0.052	113	14.36	0	0	1.1	0.14	0.3	0.04	231	29.35	77	9.78	142	18.04	5.70	0.72	9.44	1.20
19	1/19/81	3.17	7.3	0.046	106	11.93	0	0	1.2	0.14	0.3	0.03	215	24.20	77	8.67	127	14.30	6.70	0.75	8.37	0.94
20	1/31/81	3.32	7.3	0.046	104	11.71	0	0	1.2	0.14	0.3	0.03	215	24.20	78	8.78	115	12.94	6.90	0.78	8.03	0.90
21	2/19/81	3.70	6.2	0.363	42	37.30	0	0	0.5	0.44	0.2	0.18	110	97.69	44	39.08	39	34.64	1.95	1.73	0.70	0.62
22	3/8/81	3.36	7.8	0.425	66	68.56	0	0	1.5	1.56	0.1	0.10	158	164.12	46	47.78	49	50.90	2.72	2.82	3.77	3.92
23	3/21/81	3.29	8.1	0.249	83	50.52	0	0	1.5	0.91	0.2	0.12	85	51.74	46	28.00	59	35.91	1.99	1.21	1.79	1.09
24	4/11/81	3.21	8.7	0.226	71	39.26	0	0	1.2	0.66	0.6	0.33	125	69.12	70	38.71	53	29.31	2.62	1.45	1.76	0.97
25	4/30/81	3.46	8.3	0.325	101	80.34	0	0	1.3	1.03	0.3	0.24	150	119.31	52	41.36	64	50.91	3.18	2.53	4.35	3.46
26	5/16/81	3.49	8.3	0.446	140	152.90	0	0	1.2	1.31	0.2	0.22	144	157.27	48	52.42	57	62.25	2.35	2.57	3.23	3.53
27	5/29/81	3.32	8.6	0.325	70	55.68	0	0	1.4	1.11	0.2	0.16	144	114.54	49	38.98	67	53.29	2.07	1.65	3.89	3.09
28	6/18/81	3.41	8.9	0.198	71	34.33	0	0	1.2	0.58	0.2	0.10	165	79.79	56	27.08	66	31.92	2.76	1.34	4.87	2.36
29	6/30/81	3.32	8.7	0.198	79	38.20	0	0	1.1	0.53	0.2	0.10	170	82.21	55	26.60	72	34.82	2.38	1.15	m.v.	m.v.
30	7/13/81	3.27	8.2	0.172	80	33.57	0	0	1.2	0.50	0.7	0.29	171	71.76	54	22.26	74	31.06	2.52	1.06	3.81	1.60
31	7/30/81	3.29	8.6	0.136	87	29.03	0	0	1.1	0.37	0.2	0.07	165	55.06	64	21.36	75	25.03	4.65	1.55	4.80	1.60
32	8/30/81	3.32	9.2	0.106	96	24.89	0	0	1.1	0.29	0.4	0.10	143	37.08	62	16.08	83	21.52	4.80	1.25	6.96	1.81
33	9/29/81	3.13	8.4	0.072	95	16.81	0	0	1.2	0.21	1.0	0.18	211	37.33	60	10.62	103	18.22	6.20	1.10	6.96	1.23
34	10/15/81	3.07	8.9	0.065	114	18.15	0	0	1.3	0.21	0.7	0.11	223	35.50	70	11.14	94	14.96	5.95	0.95	6.52	1.04
35	10/29/81	3.24	8.3	0.066	151	24.50	0	0	1.2	0.19	0.8	0.13	221	35.82	70	11.34	99	16.04	4.60	0.75	5.16	0.84
36	11/23/81	3.22	7.7	0.106	101	26.19	0	0	1.5	0.39	0.5	0.13	231	59.90	64	16.59	99	25.67	4.56	1.18	7.34	1.90
37	12/8/81	3.04	7.8	0.106	111	28.78	0	0	1.6	0.42	0.4	0.10	225	58.34	66	17.11	97	25.41	5.60	1.45	7.09	1.84
38	12/16/81	3.11	7.7	0.106	107	27.74	0	0	1.8	0.47	1.5	0.39	223	57.82	62	16.08	99	25.67	4.50	1.17	6.64	1.72
39	1/6/82	3.27	7.9	0.159	120	46.77	0	0	1.6	0.62	0.3	0.12	212	82.62	61	23.77	81	31.57	4.75	1.85	6.57	2.56
40	1/14/82	3.59	m.v.	0.184	64	28.86	0	0	0.8	0.36	0.4	0.18	122	55.01	61	27.51	40	18.04	1.98	0.89	3.05	1.38

ROW	DATE	PH	TEMP	DISCH	ACIDITY	ACIDLD	ALK	ALKLD	TFE	TFELD	FE	FELD	SO4	SO4LD	CA	CALD	MG	MGLD	MN	MNLD	AL	ALLD
41	2/23/82	3.21	6.5	0.257	133	83.52	0	0	1.7	1.07	0.5	0.31	167	104.87	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.	m.v.
42	3/2/82	3.15	7.8	0.226	94	51.98	0	0	1.4	0.77	0.5	0.28	179	98.98	58	32.07	82	45.34	2.57	1.42	3.40	1.88
43	3/31/82	3.36	8.5	0.565	57	78.85	0	0	1.0	1.38	0.3	0.42	128	177.07	53	73.32	39	53.95	1.61	2.23	1.90	2.63
44	5/6/82	3.38	8.5	0.363	68	60.39	0	0	1.2	1.07	0.6	0.53	125	111.01	48	42.63	65	57.73	1.88	1.67	1.28	1.14
45	5/19/82	3.28	m.v.	0.338	65	53.77	0	0	1.0	0.83	0.6	0.50	98	81.06	51	42.19	67	55.42	m.v.	m.v.	m.v.	m.v.
46	5/26/82	3.34	m.v.	0.319	60	46.83	0	0	0.9	0.70	0.4	0.31	134	104.59	48	37.47	55	42.93	1.91	1.49	3.40	2.65
47	6/2/82	3.30	m.v.	0.290	58	41.11	0	0	1.0	0.71	0.2	0.14	134	94.97	52	36.85	52	36.85	2.01	1.43	1.75	1.24
48	6/10/82	3.47	m.v.	0.565	50	69.17	0	0	0.8	1.11	0.4	0.55	119	164.62	44	60.87	74	102.37	1.57	2.17	2.90	4.01
49	6/11/82	3.42	9.0	0.516	57	71.93	0	0	1.2	1.51	0.4	0.51	134	169.10	44	55.52	53	66.88	1.61	2.03	2.98	3.76
50	6/16/82	3.31	9.0	0.516	59	74.45	0	0	1.1	1.39	0.2	0.25	128	161.53	48	60.57	69	87.07	1.62	2.04	2.94	3.71
51	6/25/82	3.27	9.0	0.383	59	55.27	0	0	1.1	1.03	0.3	0.28	144	134.89	47	44.03	72	67.45	1.67	1.56	3.26	3.05
52	6/30/82	3.29	m.v.	0.325	60	47.72	0	0	0.9	0.72	0.2	0.16	128	101.81	47	37.38	49	38.97	1.76	1.40	3.56	2.83
53	7/1/82	3.33	9.5	0.307	64	48.09	0	0	1.2	0.90	0.3	0.23	116	87.15	46	34.56	55	41.32	2.01	1.51	3.59	2.70
54	7/8/82	3.35	9.0	0.243	64	38.05	0	0	1.1	0.65	0.2	0.12	146	86.80	45	26.75	49	29.13	1.84	1.09	4.06	2.41
55	7/16/82	3.36	9.7	0.193	79	37.30	0	0	0.7	0.33	0.1	0.05	151	71.30	m.v.	m.v.	m.v.	m.v.	2.30	1.09	m.v.	m.v.
56	7/28/82	3.26	m.v.	0.157	67	25.74	0	0	0.9	0.35	0.3	0.12	137	52.62	53	20.36	55	21.13	2.45	0.94	4.29	1.65
57	8/6/82	3.25	m.v.	0.136	69	22.96	0	0	1.0	0.33	0.3	0.10	165	54.90	58	19.30	72	23.96	2.68	0.89	4.67	1.55
58	8/12/82	3.16	9.0	0.125	97	29.66	0	0	0.9	0.28	0.1	0.03	178	54.44	m.v.	m.v.	m.v.	m.v.	2.83	0.87	4.68	1.43
59	8/17/82	3.24	m.v.	0.115	74	20.82	0	0	0.8	0.23	0.0	0.00	184	51.77	59	16.60	83	23.35	2.80	0.79	m.v.	m.v.
60	8/26/82	3.20	10.3	0.106	80	20.75	0	0	0.8	0.21	0.4	0.10	158	40.98	63	16.34	84	21.78	3.27	0.85	5.43	1.41
61	9/12/82	3.19	10.0	0.089	86	18.73	0	0	0.7	0.15	0.7	0.15	158	34.40	61	13.28	71	15.46	3.61	0.79	6.26	1.36
62	10/2/82	3.21	9.6	0.073	102	18.22	0	0	0.9	0.16	0.2	0.04	220	39.29	67	11.97	67	11.97	3.45	0.62	6.98	1.25
63	10/16/82	3.14	8.6	0.068	104	17.30	0	0	1.0	0.17	0.2	0.03	215	35.77	74	12.31	77	12.81	3.61	0.60	6.96	1.16
64	10/30/82	3.20	10.0	0.065	110	17.49	0	0	0.5	0.08	0.1	0.02	206	32.76	74	11.77	103	16.38	3.79	0.60	7.94	1.26
65	11/5/82	3.18	m.v.	0.058	104	14.76	0	0	0.3	0.04	0.1	0.01	233	33.06	84	11.92	116	16.46	4.04	0.57	m.v.	m.v.
66	11/24/82	3.18	7.4	0.046	114	12.83	0	0	1.0	0.11	0.1	0.01	250	28.14	74	8.33	114	12.83	4.55	0.51	8.29	0.93
67	12/16/82	3.24	8.6	0.040	120	11.74	0	0	1.1	0.11	0.3	0.03	256	25.05	72	7.05	103	10.08	4.68	0.46	9.05	0.89
68	1/8/83	3.15	7.8	0.052	114	14.50	0	0	0.8	0.10	0.2	0.03	262	33.33	80	10.18	102	12.98	4.30	0.55	9.40	1.20
69	2/5/83	3.27	6.8	0.198	81	39.24	0	0	1.1	0.53	0.3	0.15	103	49.90	63	30.52	64	31.00	3.09	1.50	7.88	3.82
70	3/1/83	3.18	m.v.	0.125	103	31.50	0	0	1.5	0.46	0.3	0.09	220	67.28	71	21.71	122	37.31	3.40	1.04	6.78	2.07
71	4/6/83	3.25	8.3	0.361	72	63.59	0	0	2.0	1.77	0.7	0.62	165	145.73	50	44.16	58	51.23	1.54	1.36	3.89	3.44
72	4/23/83	3.25	8.9	0.493	69	83.23	0	0	1.5	1.81	0.4	0.48	145	174.89	45	54.28	48	57.90	1.84	2.22	3.22	3.88
73	5/5/83	3.24	8.5	0.538	86	113.20	0	0	1.2	1.58	0.4	0.53	112	147.42	39	51.33	44	57.92	2.68	3.53	3.62	4.76
74	5/10/83	3.30	m.v.	0.495	67	81.14	0	0	1.1	1.33	0.4	0.48	125	151.38	40	48.44	38	46.02	1.61	1.95	3.02	3.66
75	5/20/83	3.31	9.4	0.470	62	71.29	0	0	0.9	1.03	0.4	0.46	99	113.84	38	43.70	52	59.79	1.71	1.97	3.11	3.58
76	5/31/83	3.15	8.6	0.379	67	62.13	0	0	1.3	1.21	0.2	0.19	100	92.73	48	44.51	58	53.78	2.49	2.31	4.05	3.76
77	6/14/83	3.21	8.9	0.244	74	44.18	0	0	1.0	0.60	0.3	0.18	110	65.67	51	30.45	51	30.45	2.50	1.49	4.98	2.97
78	6/30/83	3.22	8.9	0.163	73	29.11	0	0	1.3	0.52	0.3	0.12	167	66.60	65	25.92	48	19.14	2.10	0.84	5.04	2.01
79	7/16/83	3.24	9.6	0.138	93	31.40	0	0	1.1	0.37	0.3	0.10	156	52.67	61	20.60	70	23.63	2.99	1.01	5.66	1.91
80	8/2/83	3.16	11.7	0.106	94	24.38	0	0	1.1	0.29	0.5	0.13	164	42.53	68	17.64	79	20.49	3.19	0.83	8.68	2.25
81	8/5/83	3.19	m.v.	0.106	83	21.53	0	0	1.0	0.26	0.2	0.05	202	52.39	65	16.86	74	19.19	2.71	0.70	6.96	1.80

ROW	DATE	PH	TEMP	DISCH	ACIDITY	ACIDLD	ALK	ALKLD	TFE	TFELD	FE	FELD	SO4	SO4LD	CA	CALD	MG	MGLD	MN	MNLD	AL	ALLD
82	8/14/83	3.19	10.0	0.104	93	23.66	0	0	1.3	0.33	0.9	0.23	206	52.42	63	16.03	79	20.10	3.40	0.87	6.76	1.72
	max	3.70	11.7	0.565	151	152.90	0	0	2.0	1.81	1.5	0.62	262	177.07	90	73.32	142	102.37	6.90	3.53	9.44	4.76
	min	3.04	6.2	0.040	42	11.71	0	0	0.3	0.04	0.0	0.00	85	24.20	38	7.05	38	10.08	1.54	0.46	0.70	0.3
	Avg	3.28	8.6	0.216	86	40.25	0	0	1.1	0.59	0.4	0.18	169	77	60	27.5	73.6	32.4	3.2	1.3	5.1	2.1
	Med	3.27	8.6	0.161	85	32.81	0	0	1.1	0.44	0.3	0.13	165	60.08	61	21.71	70	25.7	2.76	1.17	4.8	1.76

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ROW	DATE	Dischg	pH	TEMP	ACID	ACIDLD	ALK	ALKLD	TFE	TFELD	FE	FELD	SO4	SO4LD	CA	CALD	MG	MGLD	MN	MNLD	AL	ALLD
1	1/28/80	0.383	3.36	m.v.	76	71.31	0.0	0.0	1.2	1.13	0.8	0.75	143	134.18	m.v.	m.v.	m.v	m.v	m.v	m.v	m.v	m.v
2	2/29/80	0.273	3.32	8.8	152	101.48	0.0	0.0	1.0	0.67	0.4	0.27	160	106.82	m.v.	m.v.	m.v	m.v	m.v	m.v	m.v	m.v
3	3/31/80	0.9	3.46	m.v.	67	147.50	0.0	0.0	1.5	3.30	0.4	0.88	138	303.80	m.v.	m.v.	m.v	m.v	m.v	m.v	m.v	m.v
4	4/22/80	1.646	3.38	8.4	71	285.94	0.0	0.0	1.0	4.03	0.4	1.61	136	547.71	m.v.	m.v.	m.v	m.v	2.06	8.30	4.10	16.51
5	5/10/80	1.745	3.22	8.4	70	298.84	0.0	0.0	0.9	3.84	0.2	0.85	128	546.45	46	196.38	46	196.38	1.94	8.28	4.80	20.49
6	5/31/80	1.255	3.22	8.5	75	230.26	0.0	0.0	0.9	2.76	0.3	0.92	150	460.52	44	135.09	50	153.51	2.09	6.42	4.51	13.85
7	6/18/80	0.9	3.32	8.6	100	220.14	0.0	0.0	0.9	1.98	0.5	1.10	169	377.04	58	127.68	52	114.47	3.00	6.60	7.62	16.78
8	6/30/80	0.446	3.36	8.9	79	86.20	0.0	0.0	0.9	0.98	0.2	0.22	167	182.22	52	56.74	53	57.83	2.35	2.56	7.06	7.70
9	7/19/80	0.319	3.21	8.9	103	80.50	0.0	0.0	0.6	0.47	0.5	0.39	162	126.62	54	42.21	59	46.11	1.96	1.53	3.67	2.87
10	8/12/80	0.241	3.25	8.9	112	65.92	0.0	0.0	1.1	0.65	1.1	0.65	163	95.94	59	34.73	65	38.26	2.54	1.50	5.96	3.51
11	8/27/80	0.209	3.25	9.0	107	54.65	0.0	0.0	1.0	0.51	0.8	0.41	171	87.33	58	29.62	57	29.11	2.38	1.22	5.80	2.96
12	9/11/80	0.178	3.12	9.0	98	42.78	0.0	0.0	1.2	0.52	0.5	0.22	167	72.89	59	25.75	63	27.50	2.36	1.03	7.99	3.49
13	9/27/80	0.136	3.28	8.8	114	37.91	0.0	0.0	1.2	0.40	0.6	0.20	135	44.89	58	19.29	67	22.28	2.63	0.88		2.33
14	10/16/80	0.209	3.16	9.1	118	60.26	0.0	0.0	1.3	0.66	0.6	0.31	186	94.99	61	31.15	72	36.77	3.40	1.74	8.75	4.47
15	11/7/80	0.15	3.32	9.0	115	42.11	0.0	0.0	1.3	0.48	0.4	0.15	230	84.22	62	22.70	94	34.42	4.00	1.46	10.25	3.75
16	11/30/80	0.122	3.29	7.4	131	39.30	0.0	0.0	1.6	0.48	0.4	0.12	242	72.60	65	19.50	82	24.60	2.73	0.82	5.78	1.73
17	12/18/80	0.15	3.17	6.3	130	47.60	0.0	0.0	1.8	0.66	0.5	0.18	206	75.43	79	28.93	73	26.73	5.10	1.87	9.46	3.46
18	1/5/81	0.15	3.29	6.1	137	50.17	0.0	0.0	1.7	0.62	0.5	0.18	251	91.91	62	22.70	109	39.91	4.00	1.47	9.38	3.44
19	1/31/81	0.123	3.11	6.9	122	36.60	0.0	0.0	1.9	0.57	0.4	0.12	181	54.30	60	18.00	102	30.60	6.50	1.95	11.38	3.41
20	2/19/81	0.274	3.40	8.1	88	58.96	0.0	0.0	0.9	0.60	0.2	0.13	132	88.43	50	33.50	73	48.91	1.83	1.23	1.41	0.94
21	3/8/81	0.718	3.35	8.1	70	123.06	0.0	0.0	1.4	2.46	0.1	0.18	160	281.28	44	77.35	58	101.97	2.61	4.59	5.56	9.78
22	3/21/81	0.563	3.33	7.8	80	110.19	0.0	0.0	1.3	1.79	0.2	0.28	145	199.71	40	55.09	75	103.30	1.92	2.64	3.40	4.68
23	4/11/81	0.459	3.41	8.7	78	87.67	0.0	0.0	1.4	1.57	0.3	0.34	169	189.95	53	59.57	67	75.31	2.33	2.62	4.35	4.89
24	4/30/81	0.584	3.41	8.1	140	200.19	0.0	0.0	1.9	2.72	0.3	0.43	177	253.09	52	74.36	54	77.22	2.82	4.03	5.02	7.18
25	5/16/81	0.765	3.44	8.1	168	314.49	0.0	0.0	1.5	2.81	0.3	0.56	147	275.18	48	89.86	68	127.30	1.91	3.58	5.18	9.70
26	5/29/81	0.673	3.32	8.6	77	126.77	0.0	0.0	1.5	2.47	0.2	0.33	121	199.20	52	85.61	48	79.02	2.03	3.34	5.01	8.25
27	6/18/81	0.459	3.39	8.9	72	80.93	0.0	0.0	1.2	1.35	0.2	0.23	193	216.93	56	62.94	67	75.31	2.24	2.52	6.92	7.78
28	6/30/81	0.42	3.35	8.7	82	84.24	0.0	0.0	1.3	1.34	0.2	0.21	166	170.54	51	52.39	56	57.53	2.10	2.16	m.v	m.v
29	7/13/81	0.381	3.36	8.5	111	103.62	0.0	0.0	1.3	1.21	0.5	0.47	159	148.42	50	46.67	64	59.74	2.14	2.00	6.47	3.99
30	7/28/81	0.223	3.31	8.5	103	86.78	0.0	0.0	1.6	1.35	0.4	0.34	143	120.49	52	43.81	82	69.09	2.88	2.43	5.46	4.60
31	8/30/81	0.209	3.28	9.7	100	51.07	0.0	0.0	1.8	0.92	0.5	0.26	198	101.12	55	28.09	63	32.17	3.55	1.81	8.00	4.09
32	9/29/81	0.15	3.10	8.1	111	40.65	0.0	0.0	1.5	0.55	0.4	0.15	185	67.74	58	21.24	103	37.72	4.55	1.67	8.55	3.13
33	10/15/81	0.136	3.00	8.2	124	41.24	0.0	0.0	1.6	0.53	1.4	0.47	211	70.17	64	21.28	92	30.60	4.85	1.61	8.55	2.84
34	10/29/81	0.136	3.19	8.2	137	45.56	0.0	0.0	1.6	0.53	1.1	0.37	222	73.83	57	18.96	110	36.58	4.35	1.45	9.09	3.02
35	11/23/81	0.198	3.19	6.8	126	61.18	0.0	0.0	1.9	0.92	0.5	0.24	235	114.10	58	28.16	96	46.61	4.24	1.06	7.04	3.42
36	12/8/81	0.209	3.19	7.9	133	67.92	0.0	0.0	2.0	1.02	0.5	0.26	221	112.87	56	28.60	77	39.32	4.45	2.27	8.30	4.24
37	12/16/81	0.257	3.15	7.6	121	76.09	0.0	0.0	2.1	1.32	1.1	0.69	204	128.29	54	33.96	83	52.20	3.55	2.23	9.12	5.74
38	1/6/82	0.308	3.16	7.0	131	98.86	0.0	0.0	2.1	1.59	0.6	0.45	196	147.92	53	40.00	74	55.85	4.40	3.32	7.74	5.84
39	1/14/82	0.247	3.46	m.v.	69	64.41	0.0	0.0	2.8	2.61	1.1	1.03	124	115.75	46	42.94	45	42.01	2.10	1.96	0.71	0.66
40	2/23/82	0.5	3.21	7.0	145	177.39	0.0	0.0	1.8	2.20	0.3	0.37	174	212.87	m.v.	m.v.	m.v.	m.v	m.v.	m.v	m.v	m.v

ROW	DATE	Dischg	pH	TEMP	ACID	ACIDLD	ALK	ALKLD	TFE	TFELD	FE	FELD	SO4	SO4LD	CA	CALD	MG	MGLD	MN	MNLD	AL	ALLD
41	3/2/82	0.5	3.17	7.8	97	118.67	0.0	0.0	1.3	1.59	0.4	0.49	168	205.53	49	59.95	70	85.64	1.97	2.41	4.83	4.83
42	3/31/82	1.115	3.30	8.2	73	199.17	0.0	0.0	0.9	2.46	0.4	1.09	140	381.97	46	125.50	59	160.97	1.38	3.77	9.39	9.39
43	5/6/82	0.765	3.40	8.2	65	121.68	0.0	0.0	1.2	2.25	0.8	1.50	144	269.57	49	91.73	42	78.62	1.72	3.22	3.81	7.13
44	5/19/82	0.628	3.25	m.v.	73	112.19	0.0	0.0	1.1	1.69	0.8	1.23	135	207.48	46	70.70	65	99.90	m.v.	m.v	m.v	m.v
45	5/26/82	0.563	3.28	m.v.	64	88.15	0.0	0.0	1.0	1.38	0.3	0.41	125	172.17	48	66.11	64	88.15	1.90	2.62	3.68	5.07
46	6/2/82	0.584	3.27	m.v.	66	94.37	0.0	0.0	0.9	1.29	0.3	0.43	130	185.89	50	71.50	61	87.22	1.85	2.65	4.44	6.35
47	6/10/82	0.971	3.46	m.v.	64	235.27	0.0	0.0	0.9	3.31	0.3	1.10	131	481.57	40	147.04	72	264.68	1.65	6.07	3.64	13.38
48	6/11/82	0.755	3.38	9.0	79	225.82	0.0	0.0	1.1	3.14	0.4	1.14	138	394.47	44	125.77	52	148.64	1.80	5.15	3.81	10.89
49	6/16/82	0.96	3.29	8.8	71	166.80	0.0	0.0	1.1	2.58	0.2	0.47	142	333.60	53	124.51	58	136.26	1.77	4.16	4.02	9.44
50	6/25/82	0.814	3.27	9.0	73	145.14	0.0	0.0	1.1	2.19	0.3	0.60	159	316.12	56	111.34	60	119.29	1.78	3.54	4.06	8.07
51	6/30/82	0.861	3.30	m.v.	69	145.35	0.0	0.0	1.0	2.11	0.4	0.84	145	305.22	45	94.79	63	132.71	1.80	3.79	4.23	8.91
52	7/1/82	0.718	3.34	9.5	64	112.51	0.0	0.0	1.1	1.93	0.3	0.53	103	181.08	51	89.66	42	73.84	1.76	3.09	4.20	7.38
53	7/8/82	0.656	3.31	8.0	66	105.93	0.0	0.0	1.1	1.77	0.2	0.32	140	224.69	52	84.36	43	69.01	2.01	3.23	3.93	6.31
54	7/16/82	0.534	3.39	9.2	74	96.68	0.0	0.0	0.7	0.91	0.3	0.39	137	178.99	54	70.55	47	61.40	1.90	2.48	4.30	6.27
55	7/28/82	0.441	3.32	9.7	81	87.39	0.0	0.0	0.9	0.97	0.3	0.32	145	156.43	54	58.26	43	46.39	2.90	2.05	5.06	5.46
56	8/6/82	0.397	3.28	m.v.	64	62.16	0.0	0.0	0.9	0.87	0.3	0.29	153	148.61	50	48.56	60	58.28	2.09	2.03	5.62	5.46
57	8/12/82	0.366	3.20	9.0	96	85.96	0.0	0.0	0.9	0.81	0.3	0.27	200	179.09	m.v.	m.v.	m.v.	m.v	2.04	1.83	5.26	4.71
58	8/17/82	0.344	3.28	m.v.	72	60.60	0.0	0.0	0.8	0.67	0.0	0.00	168	141.39	55	46.29	60	50.50	2.17	1.83	m.v	m.v
59	8/26/82	0.289	3.24	9.4	80	56.57	0.0	0.0	0.8	0.57	0.4	0.28	175	123.64	72	50.91	51	36.06	2.46	1.74	6.15	4.35
60	9/12/82	0.231	3.22	10.3	100	56.52	0.0	0.0	0.8	0.45	0.8	0.45	187	105.69	52	29.39	75	42.39	2.69	1.52	6.96	3.93
61	10/2/82	0.173	3.21	10.7	115	48.67	0.0	0.0	1.1	0.47	0.1	0.04	256	108.35	63	26.67	63	26.67	2.79	1.18	8.03	3.40
62	10/16/82	0.16	3.91	9.2	136	53.24	0.0	0.0	1.3	0.51	0.4	0.16	184	72.03	60	23.49	86	33.67	3.04	1.19	8.40	3.29
63	10/30/82	0.158	3.18	9.7	124	47.93	0.0	0.0	0.6	0.23	0.3	0.12	219	84.66	63	24.35	75	28.99	3.18	1.23	9.57	3.70
64	11/5/82	0.139	3.14	m.v.	121	41.15	0.0	0.0	0.6	0.20	0.1	0.03	221	75.16	62	21.08	101	34.35	3.27	1.11	m.v	m.v
65	11/24/82	0.133	3.12	7.8	132	42.95	0.0	0.0	1.2	0.39	0.2	0.07	m.v.	m.v.	60	19.52	99	32.21	3.83	1.25	9.40	3.06
66	12/16/82	0.135	3.18	8.3	127	41.95	0.0	0.0	1.5	0.50	0.5	0.17	268	88.52	65	21.47	102	33.69	3.72	1.23	12.90	4.26
67	1/8/83	0.186	3.13	6.9	112	50.97	0.0	0.0	1.5	0.68	0.3	0.14	262	119.23	61	27.76	103	46.87	3.61	1.64	13.50	6.14
68	2/5/83	0.295	3.12	6.4	125	90.22	0.0	0.0	1.9	1.37	0.8	0.58	200	144.35	65	46.91	67	48.36	3.40	2.45	13.56	9.79
69	3/1/83	0.351	3.17	m.v.	115	100.47	0.0	0.0	1.6	1.37	0.6	0.52	227	194.94	62	53.24	80	68.70	3.09	2.65	9.05	7.77
70	4/6/83	0.979	3.20	8.3	95	227.54	0.0	0.0	1.7	4.07	0.3	0.72	166	397.60	49	117.37	74	177.25	1.20	2.87	4.26	10.20
71	4/23/83	1.501	3.23	8.6	77	282.77	0.0	0.0	1.3	4.77	0.3	1.10	213	782.21	44	161.58	17	62.43	2.72	9.99	5.30	19.46
72	5/5/83	1.838	3.13	8.4	128	575.59	0.0	0.0	2.1	9.44	0.7	3.15	207	930.84	39	175.38	54	242.83	3.40	15.29	6.15	27.66
73	5/10/83	1.574	3.29	m.v.	67	258.01	0.0	0.0	1.0	3.85	0.3	1.16	100	385.09	39	150.19	51	196.40	2.03	7.82	4.25	16.37
74	5/20/83	1.358	3.94	8.9	62	205.99	0.0	0.0	0.8	2.66	0.2	0.66	86	285.73	39	129.58	74	145.86	1.98	6.58	4.28	14.22
75	5/31/83	1.07	3.17	8.3	67	175.40	0.0	0.0	1.0	2.62	0.1	0.26	150	392.68	49	128.27	56	146.60	2.62	6.86	4.92	12.88
76	6/14/83	0.787	3.25	8.6	74	142.48	0.0	0.0	0.9	1.73	0.2	0.39	148	284.97	48	92.42	48	92.42	2.18	4.20	5.90	11.36
77	6/30/83	0.587	3.28	9.0	73	104.84	0.0	0.0	0.9	1.29	0.2	0.29	152	218.29	69	99.09	50	71.81	2.12	3.04	5.10	7.32
78	7/16/83	0.488	3.30	9.6	92	109.84	0.0	0.0	1.0	1.19	0.3	0.36	160	191.03	56	66.86	92	109.84	2.43	2.90	6.04	7.21
79	8/2/83	0.417	3.18	9.4	97	98.96	0.0	0.0	1.0	1.02	0.3	0.31	167	170.38	66	67.34	65	66.31	2.59	2.64	6.92	7.06
80	8/5/83	0.403	3.23	m.v.	83	81.84	0.0	0.0	1.0	0.99	0.2	0.20	224	220.86	61	60.14	64	63.10	2.80	2.76	7.39	7.29
81	8/14/83	0.362	3.23	9.4	100	88.57	0.0	0.0	1.2	1.06	0.2	0.18	202	178.90	60	53.14	69	61.11	2.71	2.40	9.40	8.33

ROW	DATE	Dischg	pH	TEMP	ACID	ACIDLD	ALK	ALKLD	TFE	TFELD	FE	FELD	SO4	SO4LD	CA	CALD	MG	MGLD	MN	MNLD	AL	ALLD
	max	1.84	3.94	10.70	168.00	575.59	0.00	0.00	2.80	9.44	1.40	3.15	268.00	930.84	79.00	196.38	110.00	264.68	6.50	15.29	13.56	27.66
	min	0.12	3.00	6.10	62.00	36.60	0.00	0.00	0.60	0.20	0.00	0.00	86.00	44.89	39.00	18.00	17.00	22.28	1.20	0.82	0.71	0.66
	Avg	0.53	3.28	8.47	96.99	115.40	0.00	0.00	1.26	1.60	0.42	0.49	171.80	210.83	54.29	65.17	67.68	76.74	2.71	3.09	6.45	7.17
	Med	0.40	3.28	8.60	96.00	88.15	0.00	0.00	1.20	1.29	0.30	0.36	166.50	175.54	54.00	53.24	65.00	61.11	2.45	2.44	5.85	5.84