

FILE FOLDER

DESCRIPTION ON TAB:

Monthly Reports of Water

Plant Monitorin 11330.A

Outside/inside of actual folder did not contain hand written information

Outside/inside of actual folder did contain hand written information

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110
619 1252 - MCB

MCB not BMO

orig. (letterhd), plus 1 yellow (BMO read file) ^{ladder}
and a green for Sally's file.
plus a green for Base Com. Read file
plus 2 pink. 1 f/Ruth + 1 f/Carol.
Be sure to make copy of enclosure
for our files.

- 1 yellow ldr
- 2 green
- 2 pink

5000
MAIN

09 MAR 1987

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

OSJ

Encl:
(1) Plant Operations Forms

Writer; B. Frazelle, W/WW, X5988
Typist: S. Kolde 5 Mar 87

08 MAR 1987

Division of Health Services

Health Services Administration

Enclosed for the attention of the Director of Health Services are two copies of the report of the Health Services Administration.

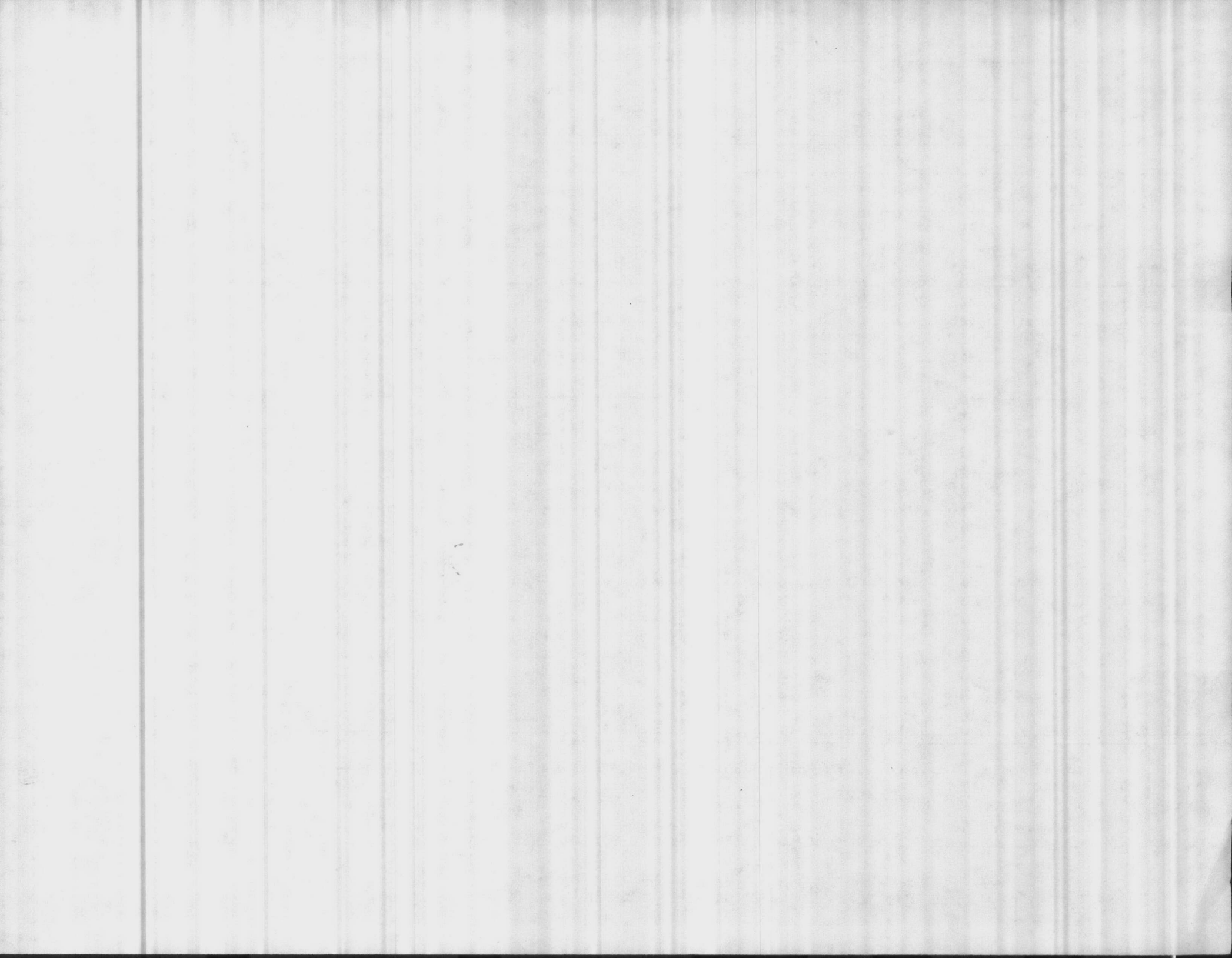
The report is being submitted to you for your information and for your review.

Sincerely,
Director

Director
Division of Health Services
Health Services Administration
1000 North Dearborn Street
Chicago, Illinois 60610

Enclosure (1) Report of Health Services Administration

Director, Division of Health Services
Health Services Administration



5000
MAIN

07 JAN 1987

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operation Forms

(1) 1/10/50

Director of ...
London

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...

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11300
MAIN
08 OCT 1986

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

Gentlemen:

As requested, the attached forms concerning the operation of our water treatment facilities are enclosed.

For further assistance, please contact Mr. G. S. Johnson, Jr., Director of Utilities, Base Maintenance Division (Telephone 451-5161).

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of the Commanding General

Enclosures

O+

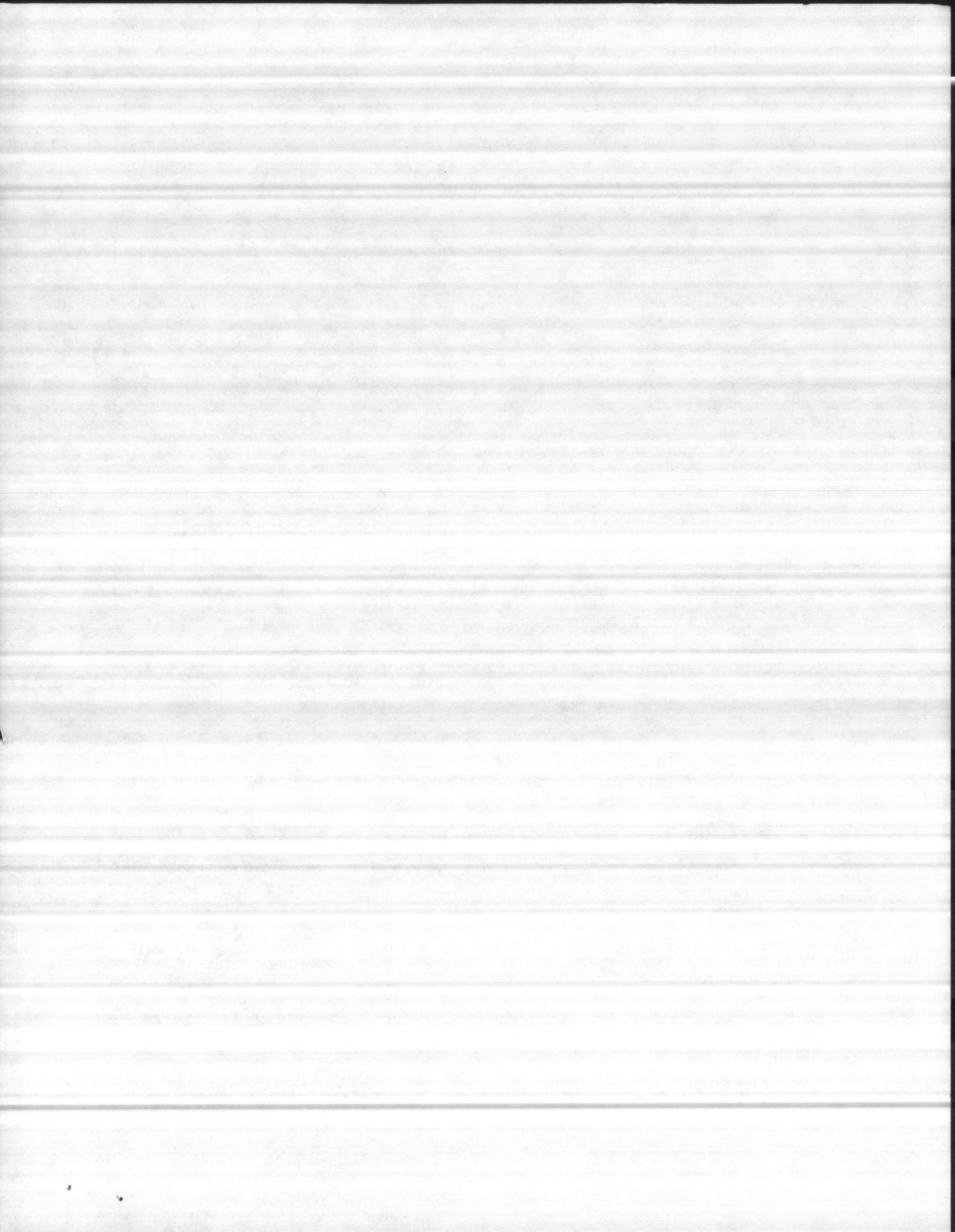
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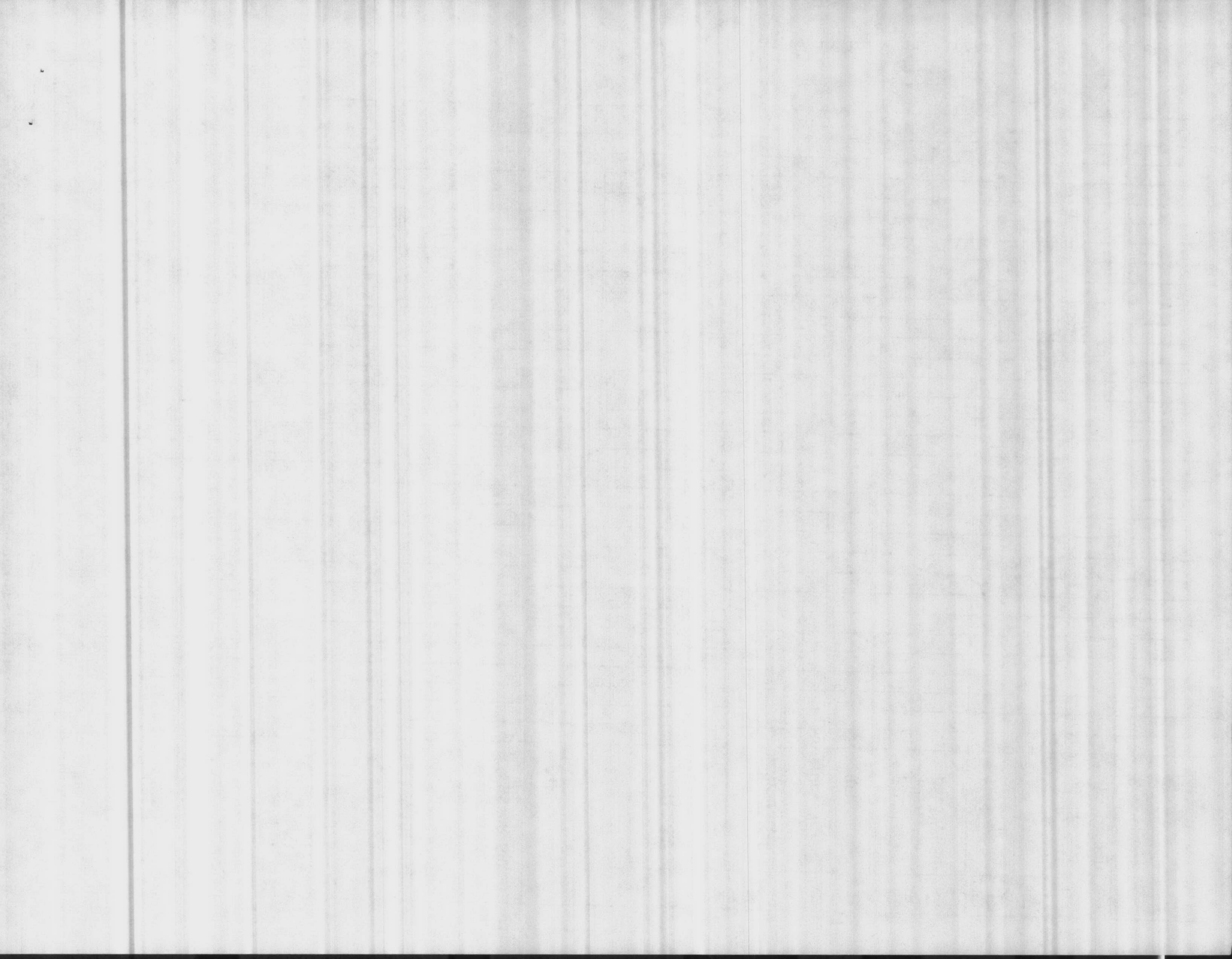
1 yellow - Ladda w/serial

2 pink

~~white for copy~~ *FB*

Writer: G. S. Johnson, Jr., Util Br, X5161
Typist: C. Kowalski, 8 Oct 86

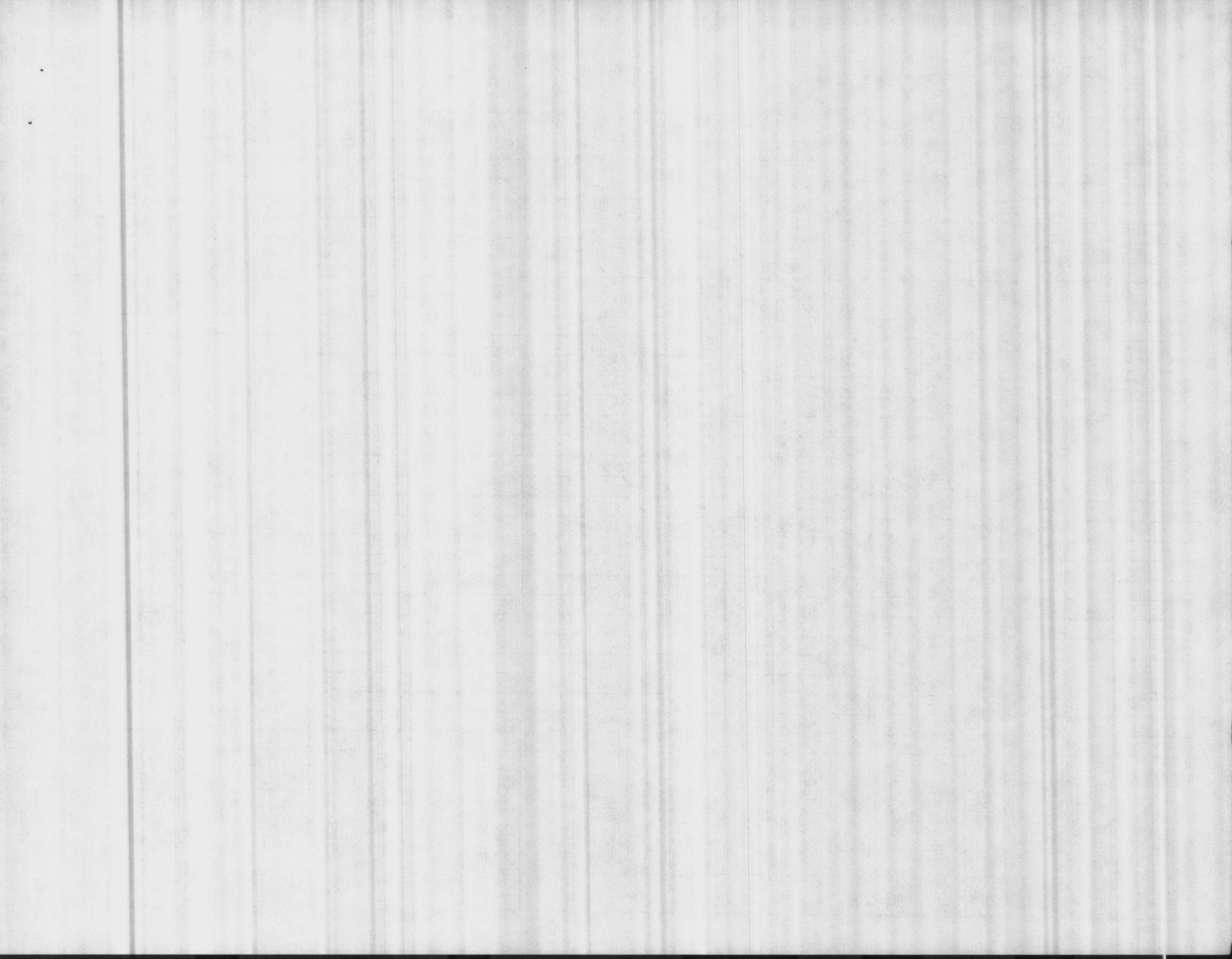


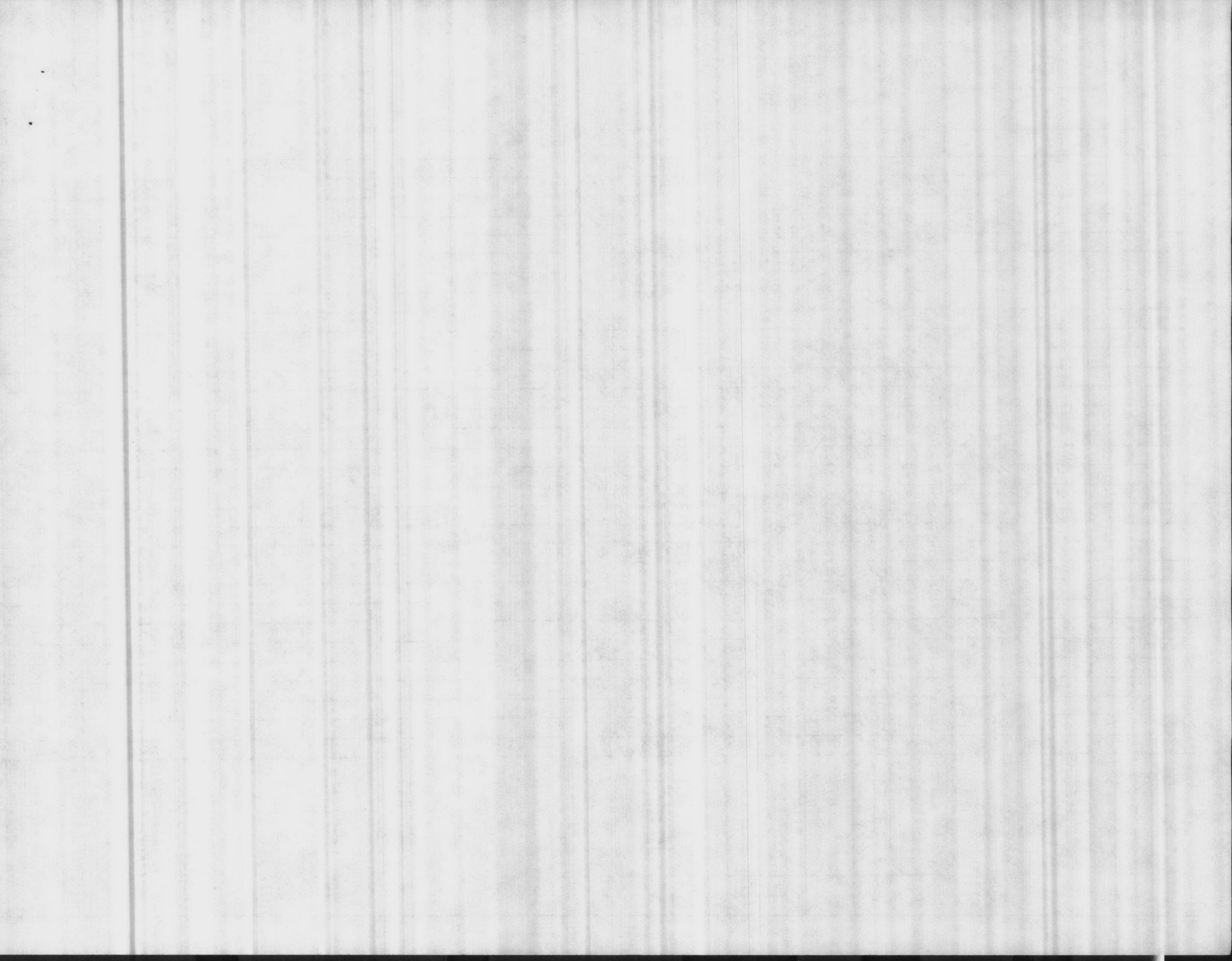


DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
										RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	2.0	24	0							7.7	8.8	160	57	59	158	59	56	1.2	1.1			
2	3.3	24	51,100							7.8	8.8	160	47	55	160	54	54	1.1	1.1			
3	3.3	24	40,800							7.8	9.0	167	58	60	155	44	50	1.1	1.1			
4	2.6	24	122,400							7.7	8.9	161	58	59	144	50	54	1.0	1.0			
5	2.7	24	0							7.8	9.0	160	60	63	141	56	58	1.1	1.1			
6	2.3	24	122,400							7.7	9.1	160	56	60	141	53	46	1.1	1.0			
7	2.1	24	0							7.8	9.0	160	60	61	142	56	54	1.0	1.0			
8	2.7	24	0							7.8	8.9	164	62	64	142	56	58	1.0	0.9			
9	2.4	24	33,600							7.9	8.8	160	62	64	147	54	57	1.1	1.0			
10	2.7	24	119,700							7.7	8.8	161	61	64	149	55	57	1.1	1.0			
11	2.8	24	0							7.6	8.8	160	61	63	154	54	57	1.0	1.0			
12	2.5	24	119,700							7.7	9.0	161	63	66	155	55	57	1.0	1.0			
13	2.0	24	0							7.6	9.0	161	61	62	155	56	55	1.1	1.1			
14	1.8	24	79,800							7.7	9.0	162	59	61	153	49	59	1.1	1.1			
15	2.5	24	0							7.8	9.0	162	58	61	154	48	56	1.0	1.0			
16	2.3	24	39,900							7.8	9.2	165	63	63	159	54	55	0.9	0.8			
17	2.5	24	79,800							7.6	8.9	161	63	65	160	54	55	1.1	0.9			
18	2.4	24	39,900							7.4	8.8	161	62	64	160	54	57	1.0	1.0			
19	2.4	24	79,800							7.6	8.8	171	60	62	154	50	56	1.0	1.0			
20	2.1	24	39,900							7.8	8.9	170	61	62	157	48	56	1.1	1.0			
21	2.2	24	79,800							7.7	8.9	170	61	64	158	49	57	1.1	1.0			
22	2.5	24	0							7.8	9.0	170	61	64	158	51	57	1.1	1.1			
23	2.2	24	79,800							7.8	9.1	171	60	60	157	45	55	1.1	1.0			
24	1.9	24	79,800							7.6	9.0	170	60	60	158	53	55	1.1	1.0			
25	2.8	24	39,900							7.6	9.3	170	60	60	156	55	56	1.0	1.0			
26	2.7	24	119,700							7.6	9.2	171	60	60	152	52	51	1.0	1.0			
27	2.3	24	0							7.6	9.2	170	60	60	151	51	50	1.0	1.0			
28	2.2	24	79,800							7.6	9.3	170	60	60	150	54	52	1.1	1.0			
29	2.7	24	0							7.6	8.9	170	58	60	154	54	54	1.1	1.0			
30	2.6	24	79,800							7.6	8.9	170	58	60	155	54	54	1.1	1.0			
31																						
TOT	73,500	720	1,550,800							AVG.	7.6	8.91	164	59.6	61.5	152.9	54.3	54.9	1.07	1.0		
AVG	2.45	24	51,693																			
MAX	3.3	24	122,420																			

ENCL (1)

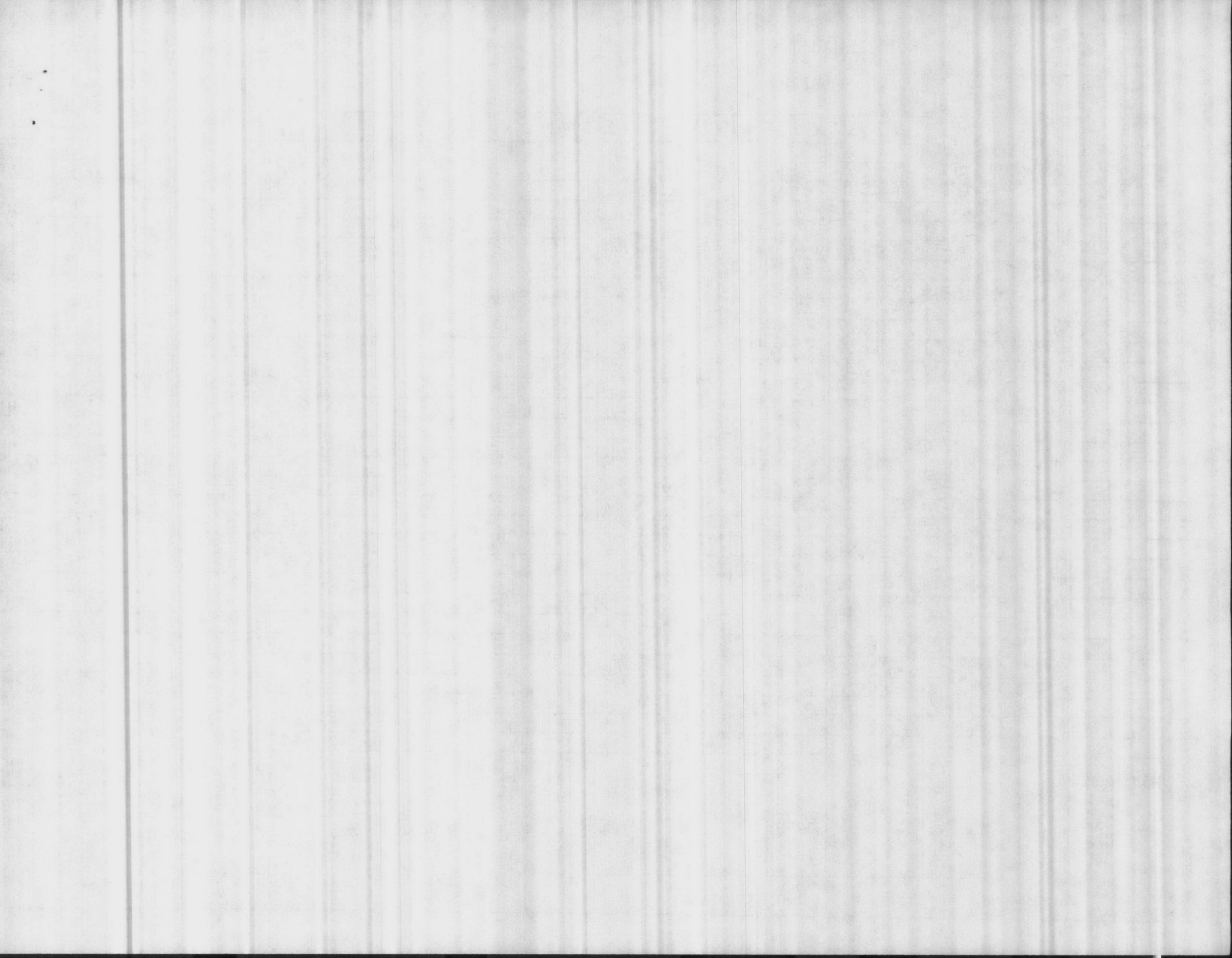
SIGNED B. J. [Signature]
 CERTIFICATION: GRADE A NO. 1201





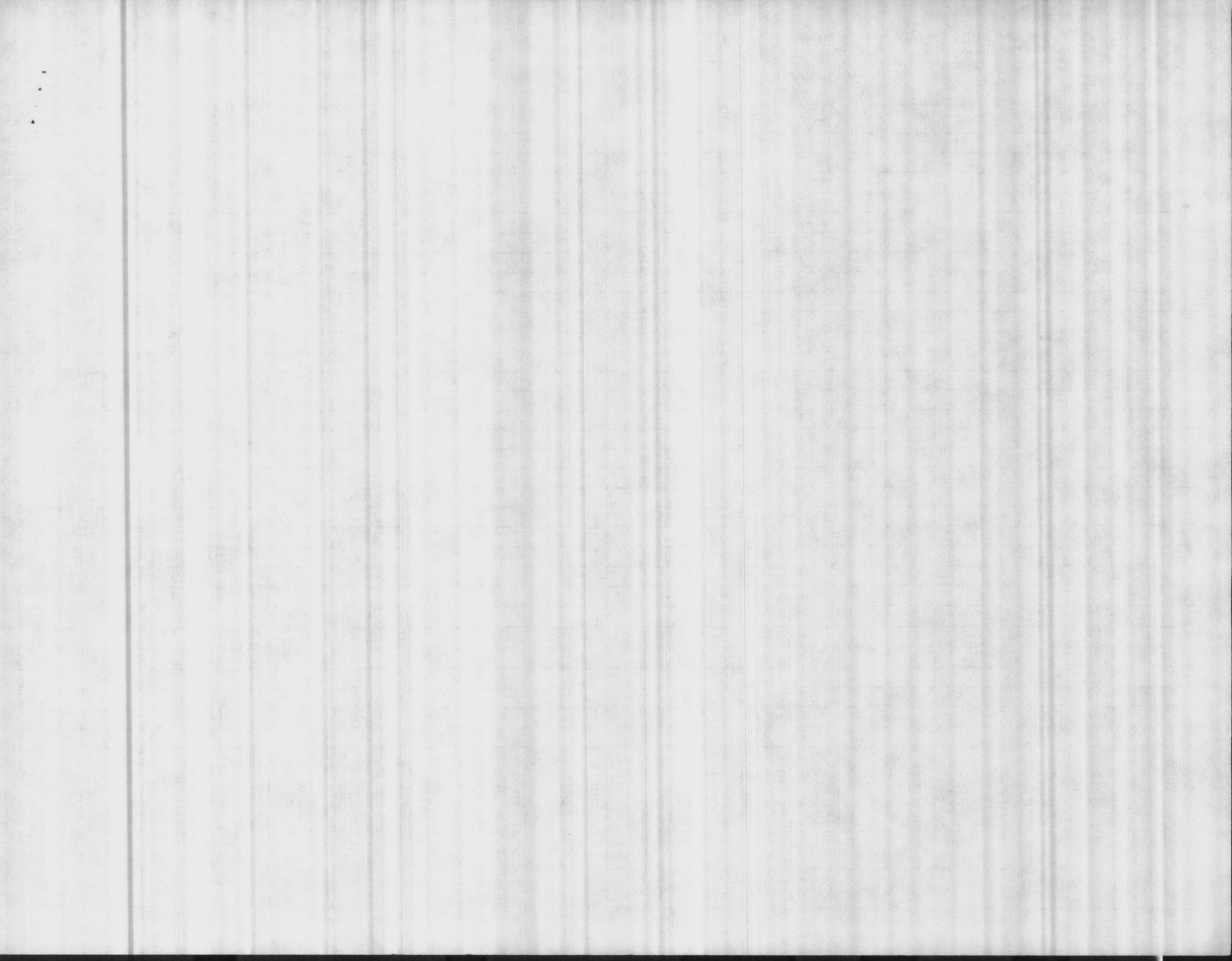
DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS
									RAW	FINISHED	RAW	TREATY SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED		
1	1.0	16	35,100	.28					7.75	8.74	134	65	64	185	79	66	1.0	.86		
2	0.03	3	None	.15					7.5	8.6	128	69	66	180	78	64	1.1	.8		
3	0.6	9	35,100	.26					7.6	9.07	185	58	64	193	69	66	1.3	.71		
4	1.2	18	35,100	.22					7.5	8.8	173	57	62	183	68	65	1.5	1.0		
5	1.0	19	35,100	.20					7.6	8.7	183	64	62	184	81	63	1.2	1.1		
6	1.0	18	35,100	.16					7.6	8.7	119	65	61	182	74	63	1.2	0.9		
7	1.2	17	35,100	.15					7.6	8.8	181	62	62	178	76	63	1.1	0.8		
8	1.0	18	35,100	.14					7.7	8.7	182	74	66	171	66	65	1.2	0.9		
9	1.0	18	35,100	.14					7.7	8.8	156	52	64	181	67	66	1.3	1.0		
10	.967	17	35,100	.21					7.6	8.7	182	59	48	181	67	50	1.1	0.9		
11	.945	18	35,100	.21					7.7	8.8	180	58	57	180	73	63	1.1	1.0		
12	1.023	18	35,100	.23					7.5	8.7	180	74	72	179	74	63	1.3	0.9		
13	1.093	19	35,100	.13					7.6	8.6	182	67	63	178	73	67	1.2	1.0		
14	1.2	19	35,100	.13					7.6	8.9	183	59	60	180	62	54	1.1	1.2		
15	1.3	19	35,100	.16					7.5	8.8	180	64	60	180	60	60	1.0	1.0		
16	1.0	17	35,100	.15					7.6	9.0	177	57	57	184	58	56	1.4	0.9		
17	1.1	18	35,100	.19					7.6	8.9	175	61	57	181	63	56	1.4	1.1	1.03	
18	1.1	21	35,100	.18					7.7	8.9	183	65	61	184	68	57	1.2	1.1	1.10	
19	1.3	21	35,100	.21					7.7	8.8	174	61	61	180	61	57	1.2	1.0	1.04	
20	.96	17	35,100	.15					7.5	8.8	165	62	57	174	61	61	1.2	1.0	1.02	
21	1.2	18	35,100	.46					7.6	8.9	158	65	65	182	69	66	1.0	0.9	.99	
22	1.0	17	35,100	.76					7.7	8.9	182	65	63	182	66	65	1.1	.7	.95	
23	1.0	14	35,100	.38					7.7	9.0	184	60	64	183	58	60	1.1	.8	.96	
24	.8	8	0	.58					7.7	8.9	184	58	61	182	56	56	1.2	.9	.98	
25	1.0	18	70,200	.25					7.5	8.8	185	84	72	182	69	69	1.2	.9	.91	
26	1.1	16	35,100	.25					7.6	8.8	188	59	79	192	59	73	1.2	1.0	.96	
27	1.1	18	35,100	.21					7.5	8.8	185	62	64	185	61	64	1.4	1.0	.91	
28	1.1	20	35,100	.55					7.5	8.9	186	62	60	183	61	60	1.2	1.0	.85	
29	1.4	20	35,100	.29					7.8	8.8	186	61	63	183	61	62	1.2	1.0	.86	
30	1.7	20	35,100	.24					7.8	8.9	184	60	59	187	60	60	1.0	1.0	.93	
31																				
TOT	30.3	509	1,017,900	768				AVG	7.6	8.8	175	63	62	182	67	62	1.2	0.9		
AVG	1.0	17	33,930	.26																
MAX	1.7	21	70,200	.76																
	.03	3	0	.13																

SIGNED B. Traeger
 CERTIFICATION: GRADE A NO. 1201



DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	.56	16	28,600	NA	50	N/A					180	54	60				1.5	1.5	N/A		
2	.54	16	35,200	NA	50	N/A					180	60	63				1.4	1.4	N/A		
3	.56	14	33,000	NA	100	N/A					190	64	64				1.5	1.5	N/A		
4	.51	14	32,100	NA	100	N/A					190	58	59				1.6	1.5	N/A		
5	.52	15	35,200	NA	100	N/A					190	56	56				1.6	1.5	N/A		
6	.49	12	30,800	NA	50	N/A					190	58	58				1.5	1.6	N/A		
7	.48	13	30,800	NA	50	N/A					200	60	60				1.2	1.2	N/A		
8	.55	14	30,800	NA	50	N/A					200	60	60				1.1	1.2	N/A		
9	.55	15	35,200	NA	100	N/A					180	60	60				1.2	1.2	N/A		
10	.51	16	30,800	NA	50	N/A					180	56	56				1.2	1.2	N/A		
11	.60	16	37,000	N/A	100	N/A					180	58	58				1.3	1.3	N/A		
12	.48	16	32,600	N/A	50	N/A					180	52	52				1.5	1.3	N/A		
13	.74	19	35,200	N/A	100	N/A					180	42	42				1.2	1.2	N/A		
14	.66	17	35,200	N/A	100	N/A					160	52	52				1.3	1.3	N/A		
15	.58	14	33,000	N/A	100	N/A					180	52	52				1.3	1.3	N/A		
16	.57	15	30,800	NA	50	N/A					186	52	54				1.4	1.3	N/A		
17	.55	14	30,800	NA	50	N/A					190	56	54				1.3	1.3	N/A		
18	.58	14	33,000	N/A	100	N/A					194	58	60				1.3	1.4	N/A		
19	.53	15	33,000	N/A	50	N/A					180	60	68				1.3	1.3	N/A		
20	.49	14	30,800	N/A	50	N/A					182	70	74				1.6	1.6	N/A		
21	.47	11	28,600	N/A	00	N/A					180	54	64				1.2	1.1	N/A		
22	.51	13	30,800	N/A	00	N/A					184	57	61				1.0	1.0	N/A		
23	.52	15	35,200	NA	50	NA					170	66	60				1.5	1.6	NA		
24	.48	14	30,800	NA	100	N/A					190	62	62				1.6	1.6	NA		
25	.60	16	35,200	NA	50	NA					190	60	58				1.6	1.6	NA		
26	.49	15	35,200	NA	100	NA					195	58	58				1.5	1.5	NA		
27	.41	12	35,200	NA	50	NA					190	52	52				1.3	1.4	N/A		
28	.67	15	33,000	NA	100	N/A					160	52	52				1.2	1.3	N/A		
29	.61	16	33,000	NA	100	N/A					180	52	52				1.3	1.3	N/A		
30	.51	15	35,200	NA	00	N/A					180	52	41				1.3	1.4	NA		
31																					
TOT	16.33	440	975,800		2000			AVG.			184	57	57				1.4	1.3			
AVG	.54	15	32,527																		
MAX	.74	19	35,200																		
	.41	11	28,600																		

SIGNED B. J. J. J.
 CERTIFICATION. GRADE A NA 1201



DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED		
1	.185	14	8,200	N/A	50	N/A	N/A	5	?	?	172	44	70	N/A	N/A	N/A	1.1	1.0	6.5	Low Detection
2	.203	13.5	8,200	/	50	/	/	8	?	?	166	50	62	/	/	/	1.1	1.0	/	Low - 1.0 mg/l
3	.210	14	8,200	/	50	/	/	7	?	?	178	44	54	/	/	/	1.1	1.0	/	3.0 mg/l
4	.212	13	8,200	/	50	/	/	8	?	?	162	52	58	/	/	/	1.1	1.0	/	
5	.212	13	8,200	/	50	/	/	6	/	/	156	50	56	/	/	/	1.1	1.0	/	
6	.166	14	8,200	/	50	/	/	5	/	/	164	50	54	/	/	/	1.1	1.0	/	
7	.185	17	8,200	/	50	/	/	4	/	/	161	50	54	/	/	/	1.1	1.0	/	
8	.196	14	8,200	/	50	/	/	5	/	/	159	50	54	/	/	/	1.1	1.0	/	
9	.200	15	8,200	/	50	/	/	6	/	/	160	52	52	/	/	/	1.1	1.0	/	
0	.190	14	8,200	/	50	/	/	6	/	/	164	50	52	/	/	/	1.1	1.0	/	
1	.212	15	8,200	/	50	/	/	7	/	/	168	52	52	/	/	/	1.1	1.0	/	
2	.294	14	8,200	/	50	/	/	7	?	?	174	50	50	/	/	/	1.2	1.2	/	
3	.180	13.5	8,200	/	50	/	/	6	?	?	186	56	52	/	/	/	1.2	1.2	/	
4	.181	13	8,200	/	50	/	/	6	/	/	172	50	53	/	/	/	1.1	1.0	/	
5	.179	14	8,200	/	50	/	/	5	/	/	168	50	52	/	/	/	1.1	1.0	/	
6	.221	13	8,200	/	50	/	/	5	/	/	176	48	50	/	/	/	1.1	1.0	/	
7	.201	15	8,200	/	50	/	/	5	/	/	164	52	52	/	/	/	1.2	1.0	/	
8	.209	14	8,200	/	50	/	/	5	/	/	174	50	53	/	/	/	1.1	1.0	/	
9	.190	14	8,200	/	50	/	/	6	/	/	172	52	54	/	/	/	1.1	1.0	/	
0	.173	13	8,200	/	50	/	/	6	/	/	177	50	76	/	/	/	1.1	1.0	/	
1	.195	14	8,200	/	50	/	/	7	?	?	186	65	50	/	/	/	1.2	1.0	/	
2	.213	14	8,200	/	50	/	/	6	?	?	176	52	52	/	/	/	1.4	1.0	/	
3	.206	13.5	8,200	/	50	/	/	6	?	?	174	52	56	/	/	/	1.0	1.0	/	
4	.215	14.5	8,200	/	50	/	/	7	?	?	172	48	52	/	/	/	1.0	1.0	/	
5	.206	14.5	8,200	/	50	/	/	8	?	?	176	48	54	/	/	/	1.0	1.0	/	
6	.211	14	8,200	/	50	/	/	8	/	/	174	46	52	/	/	/	1.0	1.0	/	
7	.204	13	8,200	/	50	/	/	5	/	/	176	50	52	/	/	/	1.1	1.0	/	
8	.201	12	8,200	/	50	/	/	5	/	/	174	50	52	/	/	/	1.1	1.0	/	
9	.202	14	8,200	/	50	/	/	6	/	/	177	50	52	/	/	/	1.1	1.0	/	
0	.206	14	8,200	/	50	/	/	6	/	/	178	50	50	/	/	/	1.1	1.0	/	
T	7.383	416	246,000		1500			182	AVG.	165	50.8	54.4				1.1	1.0			
G	.246	13.8	8,200																	
X	.294	15	8,200																	
N	.166	11	8,200																	

SIGNED
 CERTIFICATION: GRADE A NO. 1201



5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina, 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operation Forms

Writer: BM.Frazelle, Water, X1081
Typist: S. Kolde, 7 Oct 86

McB-orig

*8 pinks
1 yellow aty } file editing
1 green } file
1 green my file
1 yellow Rita*

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

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MONTH 5-14

PUBLIC WATER SYSTEM FOR: ONSLow BEACH

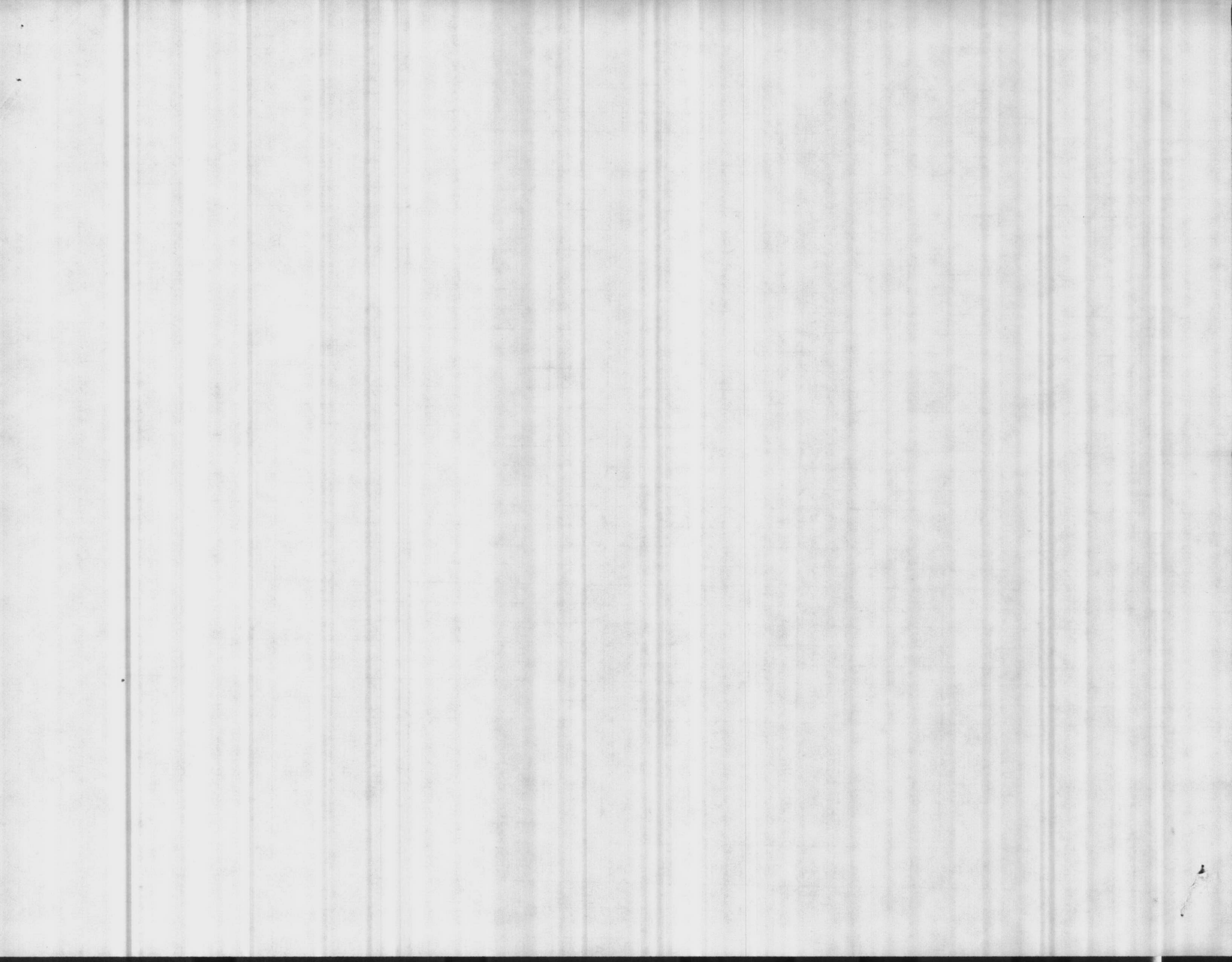
PWSID: 04-67-048

YEAR 1986

NUMBER OF WELLS IN SYSTEM 2

	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	.085	2.15	7,000	N/A	N/A	N/A	N/A				140	0	50				1.7	1.6	N/A		
2	.092	7.48	7,000								140	0	50				1.7	1.6			
3	.089	7.15	7,000								160	52	50				1.7	1.6			
4	.116	12	7,000								160	50	48				1.6	1.8			
5	.114	14	7,000								170	48	48				1.9	2.0			
6	.106	12	7,000								170	48	48				1.7	1.7			
7	.108	17	9,000								170	48	48				1.6	1.8			
8	.126	17	9,800								170	46	48				1.6	1.7			
9	.097	12	7,000								170	46	50				1.4	1.5			
0	.113	17	7,000	N/A	N/A	N/A					170	50	50				1.5	1.6			
1	.089	11	7,000	N/A	N/A	N/A					170	50	50				1.4	1.7			
2	.125	12	7,000	N/A	N/A	N/A					170	50	50				1.31	1.6			
3	.133	13	9,000	N/A	N/A	N/A					170	50	48				1.8	1.8			
4	.094	15	7,000	N/A	N/A	N/A					160	46	46				1.2	1.7			
5	.105	16.15	7,000	N/A	N/A	N/A					168	46	48				1.7	1.7			
6	.097	14.5	7,000	N/A	N/A	N/A					170	50	48				1.6	1.7			
7	.099	17.3	7,000	N/A	N/A	N/A					170	48	50				1.8	1.5			
8	.097	11	7,000	N/A	N/A	N/A					170	48	50				1.5	1.7			
9	.091	14	7,000	N/A	N/A	N/A					170	50	53				1.7	1.8			
20	.105	8.30	7,000	N/A	N/A	N/A					168	42	52				1.4	1.8			
21	.110	19	9,000	N/A	N/A	N/A					170	47	47				1.5	1.7			
22	.118	17	7,000	N/A	N/A	N/A					180	50	50				1.5	1.5			
23	.107	18	11,000	N/A	N/A	N/A					180	50	48				1.5	1.6			
24	.103	13.15	7,000	N/A	N/A	N/A					178	50	48				1.5	1.7			
25	.114	17	9,000	N/A	N/A	N/A					180	50	48				1.0	1.0			
26	.109	14.5	7,000	NA	NA	NA					180	50	48				1.2	1.3			
27	.111	12	7,000	NA	NA	NA					180	50	47				1.2	1.4			
28	.123	17	12,000	NA	NA	NA					170	50	48				1.6	1.7			
29	.123	17	10,000	NA	NA	NA					176	48	46				1.6	2.0			
30	.123	17	10,000	N/A	N/A	N/A					170	50	48				1.5	1.6			
31																					
TOT	3.228	425	245,000								AVG. 169	44.1	48.7				1.5	1.6			
AVG	.107	141	8166																		
MAX	.126	17.0	12,000																		

SIGNED B. Brazill
 CERTIFICATION: GRADE A NO. 1201



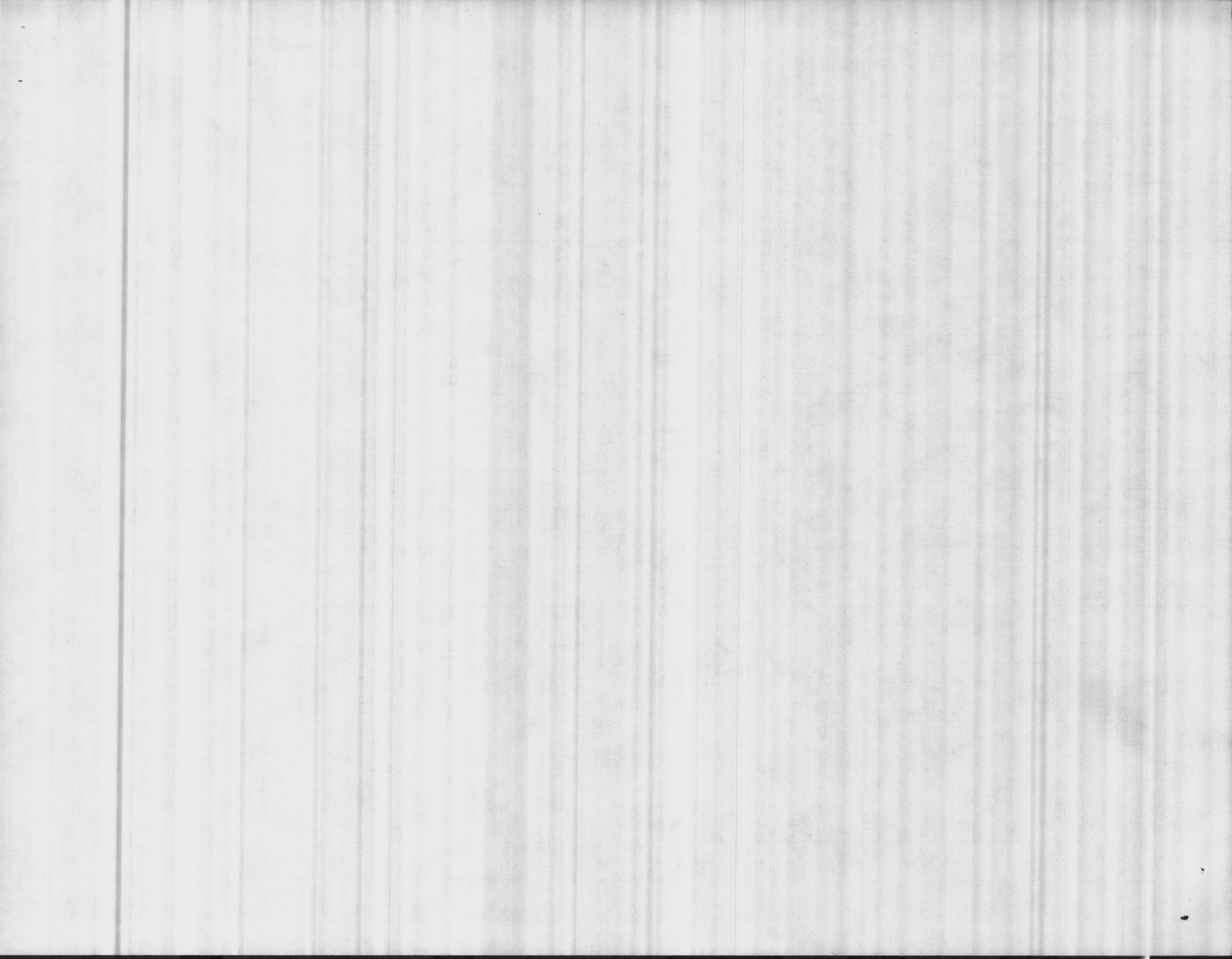
MONTH 2022
YEAR 86

PUBLIC WATER SYSTEM FOR: RIFLE RANGE
NUMBER OF WELLS IN SYSTEM 4

PWSID: 04-67-046

DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARK	
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	.185	14	8,200	N/A	50	N/A	N/A	5	?	?	172	44	70	N/A	N/A	N/A	1.1	1.0	N/A	Raw 100%	
2	.203	13.5	8,200	/	50	/	/	8	?	?	166	50	62	/	/	/	1.1	1.0	/	Raw 50%	
3	.210	14	8,200	/	50	/	/	7	?	?	178	44	54	/	/	/	1.1	1.0	/		
4	.212	13	8,200	/	50	/	/	8	?	?	162	52	58	/	/	/	1.1	1.0	/		
5	.212	13	8,200	/	50	/	/	6	/	/	156	50	56	/	/	/	1.1	1.0	/		
6	.166	14	8,200	/	50	/	/	5	/	/	164	50	54	/	/	/	1.1	1.0	/		
7	.185	11	8,200	/	50	/	/	4	/	/	161	50	54	/	/	/	1.1	1.0	/		
8	.196	14	8,200	/	50	/	/	5	/	/	159	50	54	/	/	/	1.1	1.0	/		
9	.200	15	8,200	/	50	/	/	6	/	/	160	52	52	/	/	/	1.2	1.1	/		
10	.190	14	8,200	/	50	/	/	6	/	/	164	50	52	/	/	/	1.1	1.0	/		
11	.212	15	8,200	/	50	/	/	7	/	/	168	52	52	/	/	/	1.1	1.0	/		
12	.294	14	8,200	/	50	/	/	7	?	?	174	50	50	/	/	/	1.2	1.2	/		
13	.180	12.5	8,200	/	50	/	/	6	?	?	186	56	32	/	/	/	1.2	1.2	/		
14	.181	13	8,200	/	50	/	/	6	/	/	172	50	53	/	/	/	1.1	1.0	/		
15	.179	14	8,200	/	50	/	/	5	/	/	168	50	52	/	/	/	1.1	1.0	/		
16	.221	13	8,200	/	50	/	/	5	/	/	176	48	50	/	/	/	1.1	1.0	/		
17	.201	15	8,200	/	50	/	/	5	/	/	169	52	52	/	/	/	1.2	1.0	/		
18	.209	14	8,200	/	50	/	/	5	/	/	174	50	53	/	/	/	1.1	1.0	/		
19	.190	14	8,200	/	56	/	/	6	/	/	172	52	54	/	/	/	1.1	1.0	/		
20	.173	13	8,200	/	50	/	/	6	/	/	172	50	76	/	/	/	1.1	1.0	/		
21	.195	14	8,200	/	50	/	/	7	?	?	186	68	50	/	/	/	1.2	1.0	/		
22	.213	14	8,200	/	50	/	/	6	?	?	176	62	52	/	/	/	1.4	1.1	/		
23	.206	15.5	8,200	/	50	/	/	6	?	?	174	52	56	/	/	/	0.7	1.0	/		
24	.215	14.5	8,200	/	50	/	/	7	?	?	172	48	52	/	/	/	1.0	1.1	/		
25	.206	14.5	8,200	/	50	/	/	8	?	?	176	48	54	/	/	/	1.0	1.2	/		
26	.211	14	8,200	/	50	/	/	5	/	/	174	46	52	/	/	/	1.0	1.1	/		
27	.209	13	8,200	/	50	/	/	5	/	/	176	50	52	/	/	/	1.1	1.0	/		
28	.201	15	8,200	/	50	/	/	5	/	/	174	50	52	/	/	/	1.1	1.0	/		
29	.202	11	8,200	/	50	/	/	6	/	/	172	50	52	/	/	/	1.1	1.0	/		
30	.206	14	8,200	/	50	/	/	6	/	/	178	50	58	/	/	/	1.1	1.0	/		
31																					
TOT	7.383	416	246,000		1500			182		AVG.	165	50.8	54.4				1.1	1.0			
AVG	.246	13.8	8,200																		
MAX	.294	15	8,200																		
	1.1	11	8,200																		

SIGNED [Signature]
CERTIFICATION: GRADE A NO. 1201



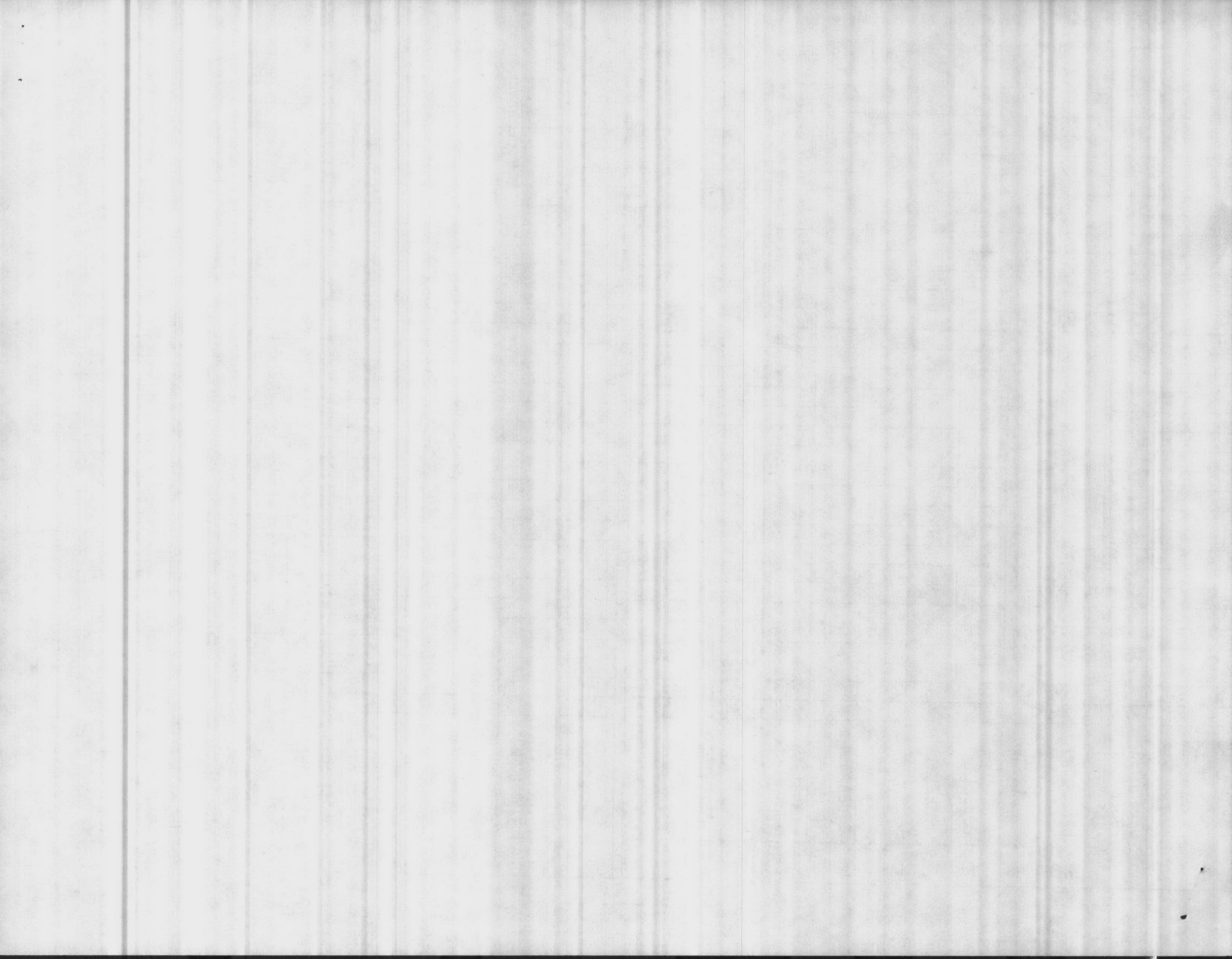
TH SEPTEMBER
YEAR 1984

PUBLIC WATER SYSTEM FOR: COURTHOUSE BAY
NUMBER OF WELLS IN SYSTEM 5

PWSID: 04-67-047

WELL	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	.56	16	28,600	NA	50	N/A					180	54	60				1.5	1.5	N/A		
2	.54	16	35,200	NA	50	N/A					180	60	63				1.4	1.4	N/A		
3	.56	14	33,000	NA	100	N/A					190	64	64				1.5	1.5	N/A		
4	.51	14	32,000	NA	100	N/A					190	58	59				1.6	1.5	N/A		
5	.52	15	35,200	NA	100	N/A					190	56	56				1.6	1.5	N/A		
6	.49	12	30,800	NA	50	N/A					190	58	58				1.5	1.6	N/A		
7	.48	13	30,800	NA	50	N/A					200	60	60				1.2	1.2	N/A		
8	.55	14	30,800	NA	50	N/A					200	60	60				1.1	1.2	N/A		
9	.55	15	35,200	NA	100	N/A					180	60	60				1.2	1.2	N/A		
10	.57	16	30,800	NA	50	N/A					180	56	56				1.2	1.2	N/A		
11	.60	16	33,000	N/A	100	N/A					180	58	58				1.3	1.3	N/A		
12	.48	16	30,600	N/A	50	N/A					180	52	52				1.3	1.3	N/A		
13	.74	19	35,200	N/A	100	N/A					180	42	42				1.2	1.2	N/A		
14	.66	17	35,200	N/A	100	N/A					160	52	52				1.3	1.3	N/A		
15	.58	14	33,000	N/A	100	N/A					180	52	52				1.3	1.3	N/A		
16	.57	16	30,800	NA	50	NA					186	52	54				1.4	1.3	NA		
17	.55	14	28,600	NA	50	NA					190	56	54				1.3	1.3	NA		
18	.58	14	33,000	N/A	100	NA					194	58	60				1.4	1.4	NA		
19	.53	12	30,800	N/A	50	NA					220	60	68				1.3	1.3	NA		
20	.49	10	30,800	N/A	50	NA					182	70	74				1.6	1.6	N/A		
21	.47	11	28,600	N/A	20	NA					180	54	64				1.2	1.1	N/A		
22	.57	13	35,200	N/A	20	NA					184	57	61				1.0	1.0	N/A		
23	.52	15	35,200	NA	50	NA					170	66	60				1.5	1.6	NA		
24	.48	14	30,800	NA	100	NA					190	62	62				1.6	1.6	NA		
25	.60	16	33,000	NA	50	NA					190	60	58				1.6	1.6	NA		
26	.49	15	35,200	NA	100	NA					195	58	58				1.5	1.5	NA		
27	.41	12	35,200	NA	50	NA					190	52	52				1.3	1.4	NA		
28	.67	15	33,000	NA	100	NA					160	52	52				1.2	1.3	NA		
29	.61	16	33,000	NA	100	NA					180	52	52				1.3	1.3	NA		
30	.51	15	35,200	NA	20	NA					180	52	41				1.3	1.4	NA		
31																					
TOT	16.32	440	975,800		2000				AVG.		184	57	57				1.4	1.3			
AVG	.54	15	32527																		
MAX	.74	19	35,200																		

SIGNED B. J. Zell
CERTIFICATION: GRADE A NO 1701



MONTH September

PUBLIC WATER SYSTEM FOR: HOLCOMB BLVD.

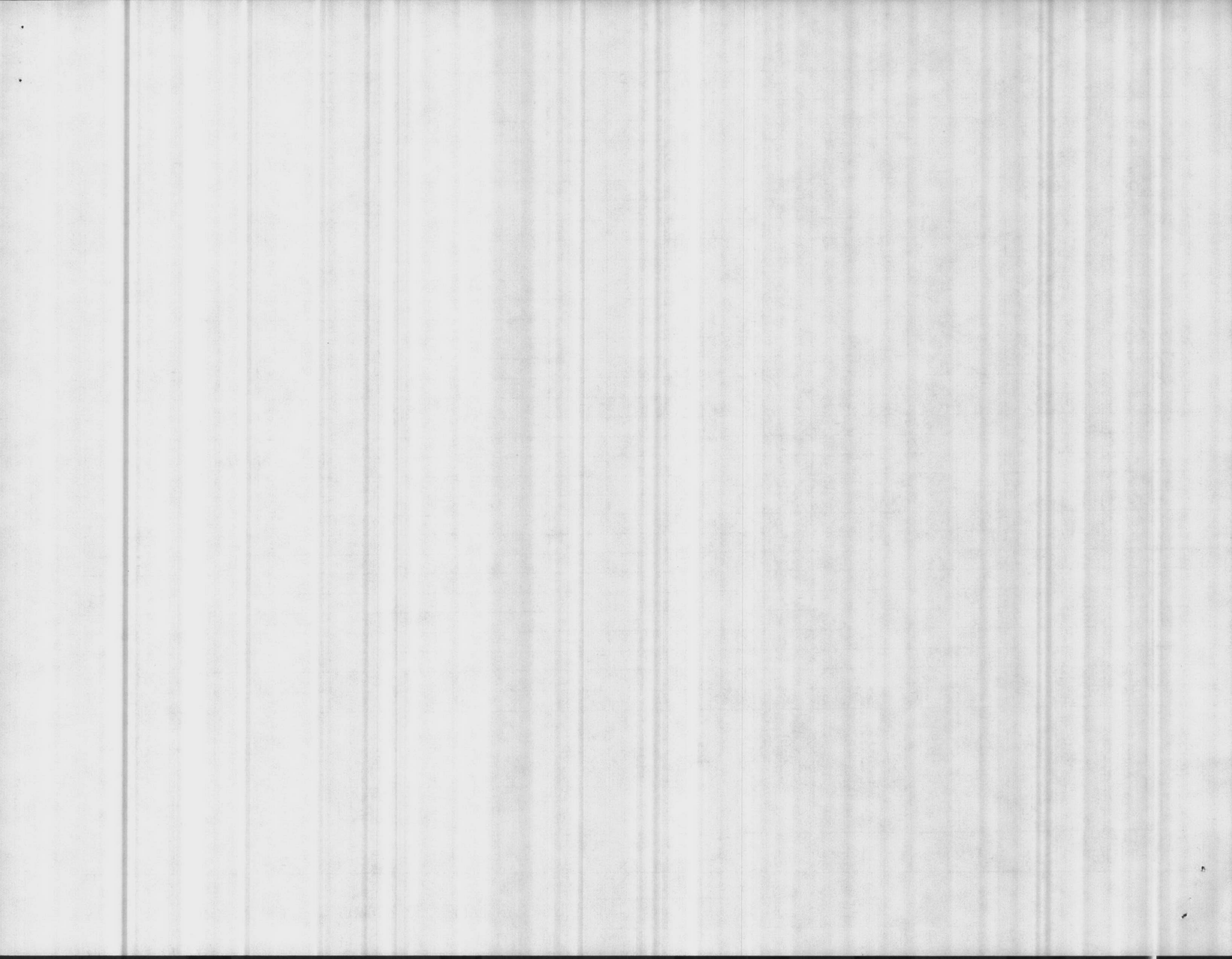
PWSID: 04-67-043

YEAR 1986

NUMBER OF WELLS IN SYSTEM 8

DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	
										RAW	FINISHED	RAW	TREATED	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT		DELIVERED
1	1.0	16	35,100	.28						7.75	8.74	134	65	64	185	79	66	1.0	.86		
2	0.03	3	NONE	.15						7.5	8.6	108	69	66	180	78	64	1.1	.8		
3	0.6	9	35,100	.26						7.6	9.07	185	58	64	193	69	66	1.3	.71		
4	1.2	18	35,100	.22						7.5	8.8	173	57	62	183	68	65	1.5	1.0		
5	1.0	19	35,000	.20						7.6	8.7	183	64	62	184	81	63	1.2	1.1		
6	1.0	18	35,100	.16						7.6	8.7	169	65	61	182	74	63	1.2	0.9		
7	1.2	17	35,100	.15						7.6	8.8	181	62	62	178	76	63	1.1	0.8		
8	1.0	18	35,100	.14						7.7	8.7	182	74	66	171	66	65	1.2	0.9		
9	1.0	18	35,100	.14						7.7	8.8	156	52	64	181	67	66	1.3	1.0		
10	.967	17	35,100	.21						7.6	8.7	182	59	48	181	67	50	1.1	0.9		
11	.945	18	35,100	.27						7.7	8.8	180	58	57	180	73	63	1.1	1.0		
12	1.023	18	35,100	.23						7.5	8.7	180	74	72	179	74	63	1.3	0.9		
13	1.093	19	35,100	.13						7.6	8.6	182	67	63	178	73	67	1.2	1.0		
14	1.2	19	35,100	.13						7.6	8.9	183	59	60	180	62	54	1.1	1.2		
15	1.3	19	35,100	.16						7.5	8.8	180	64	60	180	60	60	1.0	1.0		
16	1.0	17	35,100	.15						7.6	9.0	177	57	57	184	58	56	1.4	0.9		
17	1.1	18	35,100	.19						7.6	8.9	175	61	57	181	63	56	1.4	1.1	1.03	
18	1.1	21	35,100	.18						7.7	8.9	183	65	61	184	68	57	1.2	1.1	1.10	
19	1.3	21	35,100	.21						7.7	8.8	174	61	61	180	61	57	1.2	1.0	1.04	
20	.96	17	35,100	.15						7.5	8.8	165	62	57	174	61	61	1.3	1.0	1.02	
21	1.2	18	35,100	.46						7.6	8.9	158	65	65	182	69	66	1.0	0.9	.99	
22	1.0	17	35,100	.76						7.7	8.9	182	65	63	182	66	65	1.1	.7	.95	
23	1.0	14	35,100	.38						7.7	9.0	184	60	64	183	58	60	1.1	.8	.96	
24	.8	8	0	.58						7.7	8.9	184	58	61	182	56	56	1.2	.9	.98	
25	1.0	18	70,200	.25						7.5	8.9	185	84	72	182	69	69	1.2	.9	.91	
26	1.1	16	35,100	.25						7.6	8.8	188	59	79	192	59	73	1.2	1.0	.96	
27	1.1	18	35,100	.21						7.5	8.8	185	62	64	185	61	64	1.4	1.0	.91	
28	1.1	20	35,100	.55						7.5	8.9	186	62	60	183	61	60	1.2	1.0	.85	
29	1.4	20	35,100	.29						7.8	8.8	186	61	63	183	61	62	1.2	1.0	.86	
30	1.7	20	35,100	.74						7.8	8.9	184	60	59	187	60	60	1.0	1.0	.93	
31																					
TOT	30.3	509	1,017,900	768					AVG	7.6	8.8	175	63	62	182	67	62	1.2	0.9		
AVG	1.0	17	33,930	.26																	
MAX	1.7	21	70,200	.76																	

SIGNED B. H. [Signature]



MONTH September

PUBLIC WATER SYSTEM FOR: MARINE CORPS AIR STATION PWSID: 04-67-042

YEAR 1986

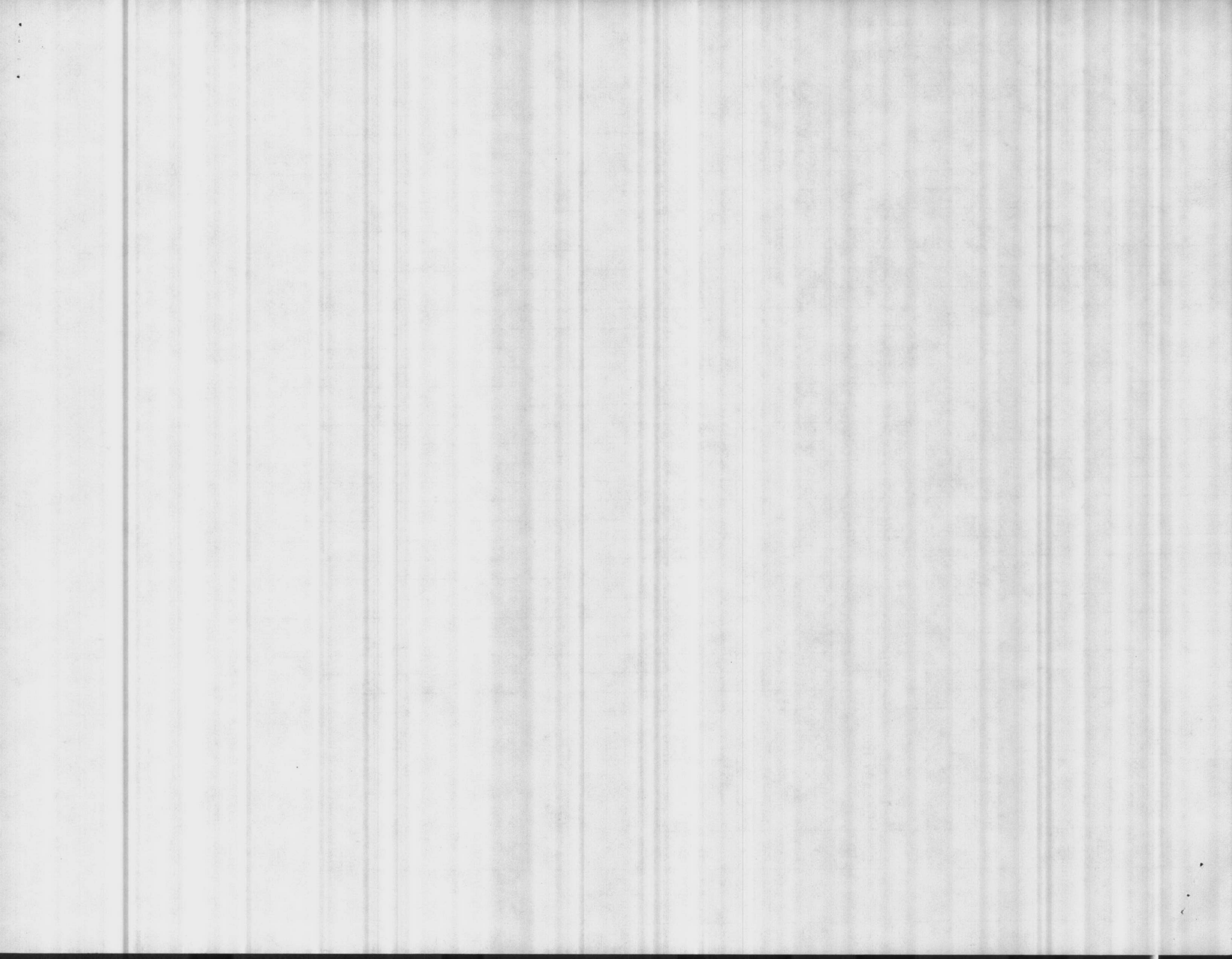
NUMBER OF WELLS IN SYSTEM 25

REPORT OF OPERATION

DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)		CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARK	
										RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	Clear Well FILTER	DELIVERED	PLANT			DELIVERED
1	.583	12 1/2	60,000							7.4	8.5	152	54	52	246	157	159		0.8		
2	.649	13 1/2	0							7.7	8.6	168	58	51	261	178	178		0.8		
3	.666	17	60,000							7.5	8.5	158	57	53	262	167	165		0.6		
4	.667	14 1/2	120,000							7.4	8.6	153	54	53	268	168	165		0.8		
5	.658	15 1/2	0							7.7	8.6	153	55	52	274	166	174		0.8		
6	.647	15	60,000							7.5	8.5	156	55	53	276	165	178		0.7		
7	.773	19	120,000							7.5	8.5	154	57	53	258	167	172		0.8		
8	.674	16	0							7.5	8.4	157	57	54	274	171	181		0.7		
9	.684	16 1/2	120,000							7.5	8.5	150	55	52	273	180	183		0.8		
10	.701	16	60,000							7.5	8.3	147	66	57	275	179	176		0.7		
11	.715	16 1/2	0							7.5	8.4	146	57	51	271	164	169		0.8		
12	.699	16 1/2	120,000							7.5	8.6	148	58	48	268	156	158		0.7		
13	.627	13 1/2	60,000							7.6	8.6	150	60	52	276	163	166		0.7		
14	.630	13	0							7.6	8.6	153	58	53	275	168	171		0.7		
15	.650	14 1/2	60,000							7.6	8.6	149	57	51	265	171	166		0.7		
16	.660	18 1/2	120,000							7.6	8.6	152	59	50	271	175	175		0.8		
17	.708	16	0							7.6	8.6	155	58	55	268	173	173		0.8		
18	.636	12 1/2	0							7.6	8.4	150	61	66	261	176	180		0.75		
19	.760	12 1/2	180,000							7.6	8.5	153	56	59	266	158	173		0.76		
20	.605	13 1/2	60,000							7.6	8.6	155	59	54	264	171	178		0.8		
21	.638	14	60,000							7.6	8.5	148	59	57	261	170	174		0.8		
22	.609	12 1/2	0							7.5	8.5	167	58	56	270	151	162		0.8		
23	.663	14 1/2	120,000							7.4	8.6	161	53	52	276	162	153		0.8		
24	.655	14 1/2	0							7.4	8.5	159	59	55	273	159	158		0.7		
25	.728	18 1/2	60,000							7.4	8.6	158	59	53	267	156	156		0.8		
26	.669	17 1/2	180,000							7.6	8.5	151	57	55	256	152	168		0.7		
27	.626	17	0							7.6	8.6	158	58	52	277	172	166		0.7		
28	.678	17	0							7.5	8.6	157	60	55	263	174	156		0.8		
29	.653	17 1/2	180,000							7.5	8.6	170	57	53	261	166	158		0.8		
30	.699	17 1/2	0							7.7	8.5	168	59	53	262	155	155		0.72		
31																					
TOT	19.956	468	1,800,000						AVG.	7.5	8.5	145.5	57.6	53.6	267.2	166.3	168.2		0.75		
AVG	.665	15.6	60,000	-																	
MAX	.773	19	120,000	-																	
	.583	12.5	60,000	-																	

SIGNED [Signature]

CERTIFICATION GRADE 1 NA



DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
										RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	2.0	24	0							7.7	8.8	160	57	59	158	59	56	1.2	1.1			
2	3.3	24	51,600							7.8	8.8	160	47	55	160	54	54	1.2	1.1			
3	3.3	24	40,800							7.8	9.0	167	58	60	155	44	50	1.1	1.1			
4	2.6	24	122,400							7.7	8.9	161	58	59	144	50	54	1.0	1.0			
5	2.7	24	0							7.8	9.0	160	60	63	141	56	58	1.1	1.1			
6	2.3	24	122,400							7.7	9.1	160	56	60	141	53	46	1.1	1.0			
7	2.1	24	0							7.8	9.0	160	60	61	142	56	54	1.0	1.0			
8	2.7	24	0							7.8	8.9	164	62	64	142	56	58	1.0	0.9			
9	2.4	24	33,600							7.9	8.8	160	62	64	147	54	57	1.1	1.0			
10	2.7	24	119,700							7.7	8.8	161	61	64	149	55	57	1.1	1.0			
11	2.8	24	0							7.6	8.8	160	61	63	154	54	57	1.0	1.0			
12	2.5	24	119,700							7.7	9.0	161	63	66	155	55	57	1.0	1.0			
13	2.0	24	0							7.6	9.0	161	61	62	155	56	55	1.1	1.1			
14	1.8	24	79,800							7.7	9.0	162	59	61	155	49	59	1.1	1.1			
15	2.5	24	0							7.8	9.0	162	58	61	154	48	56	1.0	1.0			
16	2.3	24	39,900							7.8	9.2	165	63	63	158	54	55	0.9	0.8			
17	2.5	24	79,800							7.6	8.8	161	63	65	160	54	55	1.1	0.9			
18	2.4	24	39,900							7.4	8.8	161	62	64	160	54	57	1.0	1.0			
19	2.4	24	79,800							7.6	8.8	171	60	62	154	50	56	1.0	1.0			
20	2.1	24	39,900							7.8	8.9	170	61	62	157	48	56	1.1	1.0			
21	2.2	24	79,800							7.7	8.9	170	61	64	158	49	57	1.1	1.0			
22	2.5	24	0							7.8	9.0	170	61	64	158	51	57	1.1	1.1			
23	2.2	24	79,800							7.8	9.1	171	60	60	157	45	55	1.1	1.0			
24	1.9	24	79,800							7.6	9.0	170	60	60	158	53	55	1.1	1.0			
25	2.8	24	39,900							7.6	9.3	170	60	60	156	55	56	1.0	1.0			
26	2.7	24	119,700							7.6	9.2	171	60	60	152	52	51	1.0	1.0			
27	2.3	24	0							7.6	9.2	170	60	60	151	51	50	1.0	1.0			
28	2.2	24	79,800							7.6	9.3	170	60	60	150	54	52	1.1	1.0			
29	2.7	24	0							7.6	8.9	170	58	60	154	54	54	1.1	1.0			
30	2.6	24	79,800							7.6	8.9	170	58	60	155	54	54	1.1	1.0			
31																						
TOT	73.500	720	1,550,800						AVG.	7.6	8.97	164	59.6	61.5	152.9	54.3	54.9	1.07	1.0			
AVG	2.45	24	51,693																			
MAX	3.3	24	122,400																			

SIGNED B. J. [Signature]



11300
MAIN

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

Gentlemen:

As requested, the attached forms concerning the operation of our water treatment facilities are enclosed.

For further assistance, please contact Mr. G. S. Johnson, Jr.,
Director of Utilities, Base Maintenance Division (Telephone
451-5161).

Sincerely,

N. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of the Commanding General

Enclosures

Writer: G. S. Johnson, Jr., Util Br, X5161
Typist: S. Kolde, 5 Nov 86

1945-46
MILWAUKEE

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1945

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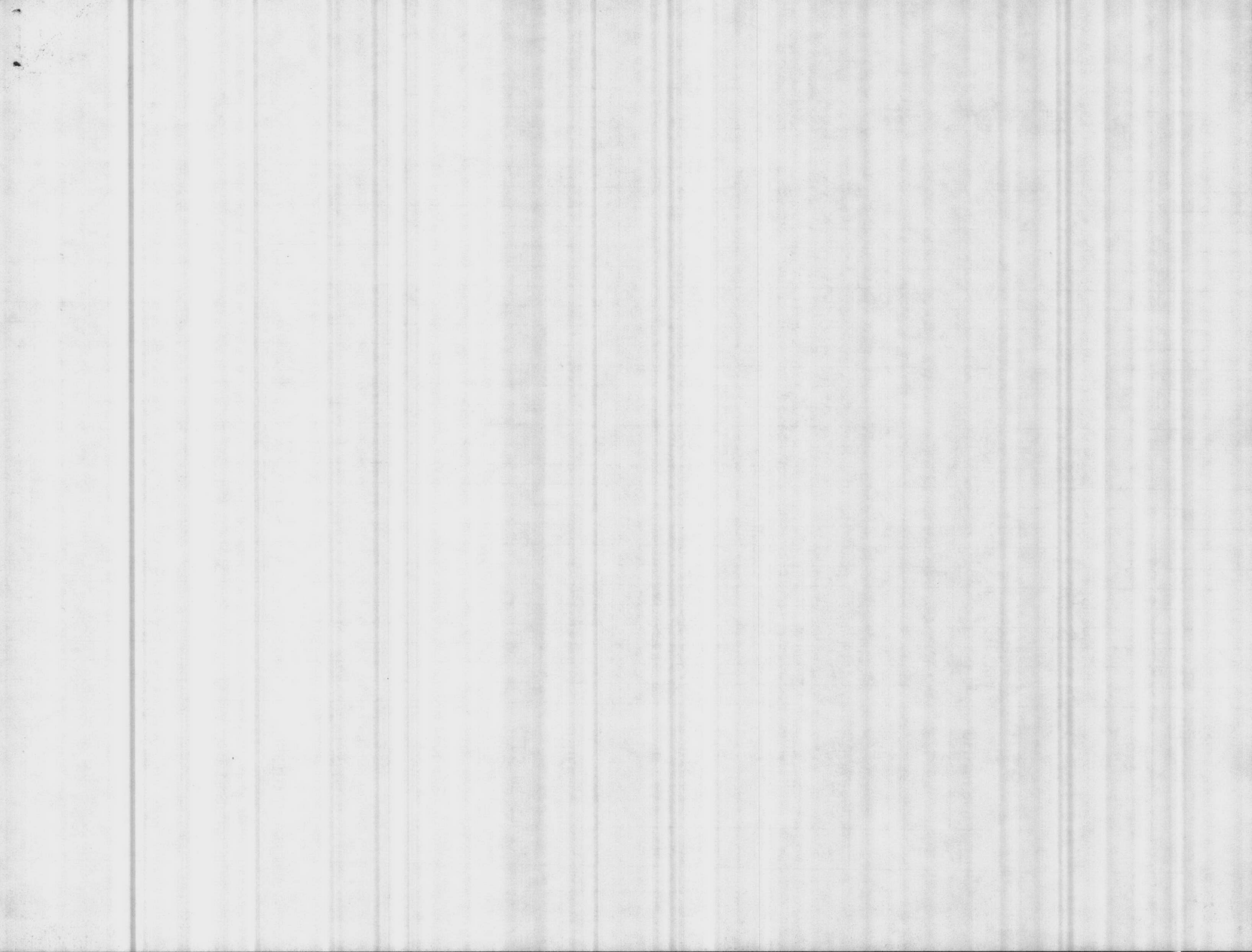
1945-46
MILWAUKEE

MONTH October
 YEAR 1986

NUMBER OF WELLS IN SYSTEM 25

TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS
								RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	Clear Well FILTER	DELIVERED	PLANT	DELIVERED		
.683	15	0						7.5	8.4	159	56	53	231	160	167		0.625		
.757	16 1/2	10,000						7.6	8.35	160	63	54	266	165	156		0.683		
.663	17	0						7.6	8.44	156	68	52	226	153	153		0.833		
.641	13 1/2	0						7.6	8.46	160	55	55	240	165	158		0.733		
.734	19	10,000						7.6	8.47	158	61	53	252	176	170		0.8		
.674	16 1/2	50,000						7.5	8.75	160	63	56	256	172	170		0.791		
.732	16 1/2	60,000						7.5	8.4	158	59	53	260	171	156		0.7		
.633	13	48,000						7.5	8.5	164	60	54	264	172	156		0.7		
.668	15	60,000						7.7	8.3	160	61	62	270	167	161		0.8		
.635	12 1/2	0						7.4	8.4	156	58	56	270	164	159		0.7		
.617	12	60,000						7.4	8.3	170	61	56	284	170	166		0.7		
.631	15 1/2	180,000						7.5	8.3	154	58	57	268	166	158		0.8		
.589	13	0						7.4	8.3	154	63	57	240	174	156		0.7		
.586	15 1/2	60,000						7.6	8.2	159	70	73	274	187	187		0.76		
.672	18	60,000						7.6	8.4	142	62	66	268	161	190		0.73		
.718	18	60,000						7.8	8.6	140	56	57	240	161	177		0.7		
.689	16 1/2	60,000						7.4	8.5	140	58	53	288	168	173		0.78		
.534	14	108,000						7.6	8.5	154	65	52	260	161	164		0.8		
.610	12 1/2	0						7.4	8.5	144	60	53	266	159	155		0.78		
.585	16	60,000						7.5	8.5	174	61	51	258	163	162		0.76		
.601	14 1/2	60,000						7.6	8.5	152	55	57	256	164	162		0.73		
.676	16	60,000						7.5	8.5	156	54	54	260	158	163		0.75		
.702	15	60,000						7.5	8.4	152	62	57	262	166	164		0.76		
.674	17	60,000						7.6	8.4	168	57	53	260	159	164		0.8		
.591	14 1/2	60,000						7.4	8.5	173	60	57	253	165	166		0.8		
.605	15 1/2	60,000						7.5	8.6	146	56	52	262	168	147		0.77		
.663	17 1/2	60,000						7.6	8.6	148	53	56	262	159	157		0.83		
.597	15	60,000						7.6	8.6	150	57	54	260	164	162		0.7		
.653	14 1/2	60,000						7.6	8.6	150	58	52	275	168	166		0.73		
.529	13	0						7.5	8.5	174	58	56	260	172	182		0.73		
.667	14 1/2	120,000						7.6	8.7	166	59	58	272	165	173		0.80		
19.374	473	1,662,000																	
.624	15	58,612																	

SIGNED *[Signature]*

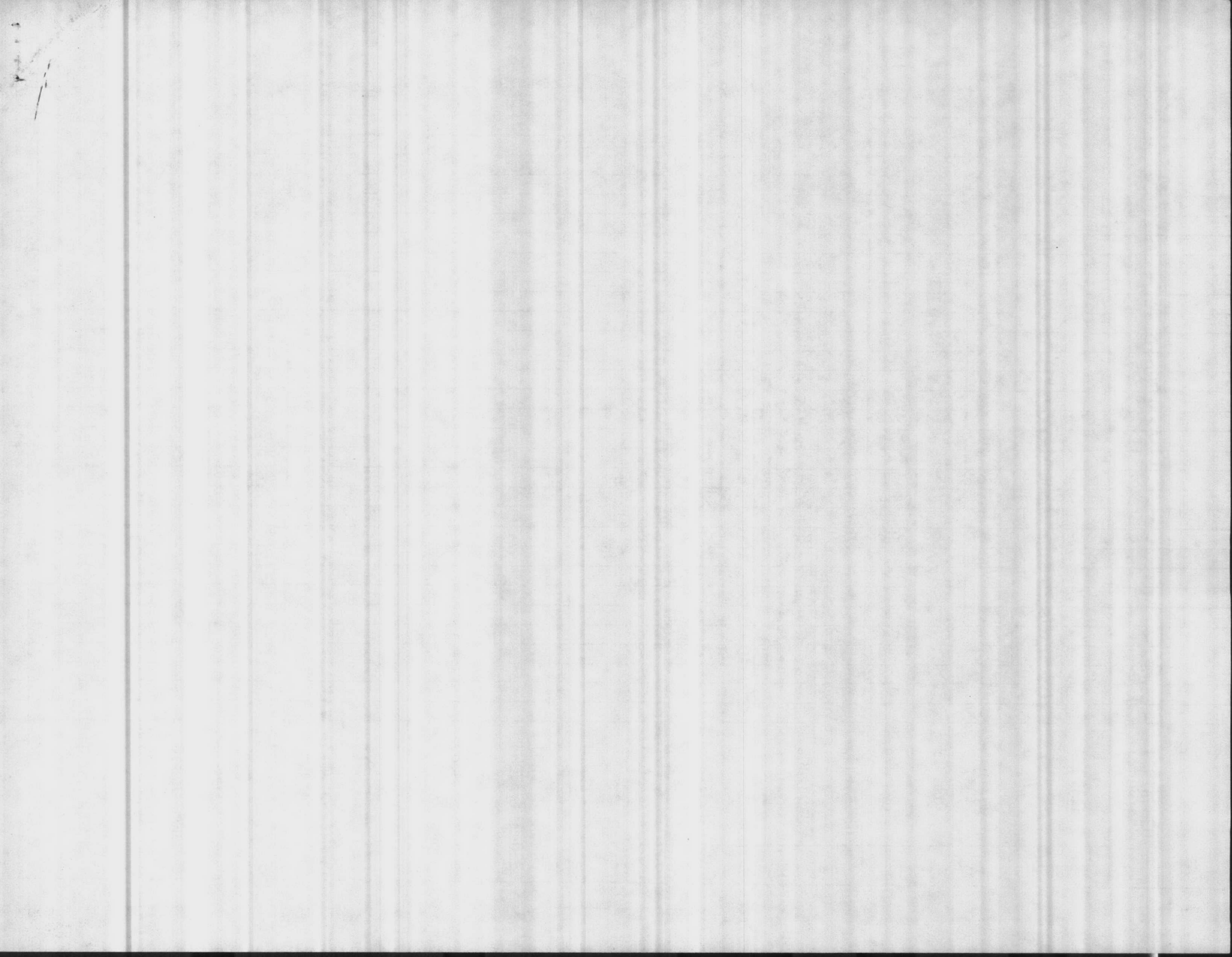


YEAR 1986

NUMBER OF WELLS IN SYSTEM 7

DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARK
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED		
1	1.129	19	35,100	.29					7.7	8.9	185	52	59	186	57	56	1.1	0.8	.87	
2	1.352	18	35,100	.25					7.6	8.9	185	71	65	180	71	59	1.0	0.8	.79	
3	1.303	24	35,100	.23					7.6	8.9	193	66	69	184	66	65	0.8	0.7	.73	
4	1.339	19	35,100	.19					7.6	8.8	183	67	66	181	64	64	1.2	0.8	.85	
5	1.237	19	35,100	.32					7.8	8.8	187	62	65	178	65	61	1.2	.9	.92	
6	1.429	20	35,100	.33					7.8	8.9	178	62	64	180	68	67	1.3	1.0		
7	1.182	16	35,100	.24					7.7	8.9	186	64	64	184	60	63	1.3	1.0	.92	
8	1.081	18	35,100	.28					7.7	8.9	184	60	59	182	60	62	1.2	0.9	.89	
9	.643	8	35,100	.33					7.6	8.9	180	57	58	180	57	55	1.2	0.8	.93	
10	1.080	16	35,100	.33					7.7	8.9	185	54	56	185	60	58	1.3	0.9	.91	
11	.837	15	35,100	.30					7.5	8.9	182	59	53	180	58	58	1.2	1.1	.89	
12	.955	15	35,100	.26					7.6	8.8	186	69	60	178	70	60	1.0	0.8	.94	
13	1.574	18	35,100	.17					7.6	9.0	182	51	53	175	56	55	1.3	0.9	.90	
14	1.199	21	35,100	.17					7.6	8.9	178	63	62	177	63	62	1.3	1.1	.95	
15	1.051	21	35,100	.20					7.9	8.9	186	62	63	178	65	59	1.3	1.1	.96	
16	1.197	22	35,100	.25					7.8	8.8	180	65	64	178	64	61	1.0	0.9	1.01	
17	1.056	18	35,100	.23					7.7	8.8	180	70	66	182	72	65	1.2	1.0	.99	
18	1.247	18	35,100	.16					7.8	8.8	178	65	65	174	67	67	1.3	1.0	.94	
19	1.084	16	35,100	.20					7.9	8.8	178	62	65	175	60	63	1.0	1.1	.97	
20	1.079	19	35,100	.24					7.8	8.8	180	63	69	178	67	70	1.1	1.0	.93	
21	1.204	18	35,100	.21					7.8	8.7	122	54	83	187	55	76	1.2	.9		
22	.914	16	35,100	.22					7.8	9.0	180	67	71	188	66	70	1.0	.9	.90	
23	-	0	-	-					-	-	-	-	-	-	-	-	-	-	-	
24	.677	10	-	.26					-	8.8	-	64	67	-	64	76	1.0	.9	1.11	
25	.958	20	35,100	.67					7.1	8.9	186	60	69	185	58	59	1.0	.8	1.07	
26	1.199	23	35,100	.34					7.6	8.8	160	60	56	185	60	56	1.1	0.9	1.01	
27	1.019	14	35,100	.75					7.6	8.9	187	62	62	185	64	64	1.2	0.9	.88	
28	1.134	13	35,100	1.25					7.7	8.9	180	56	58	184	58	60	1.3	1.0	.87	
29	1.152	19	35,100	1.37					7.6	8.7	182	64	60	181	62	61	1.2	1.0	.97	
30	.992	18	35,100	.90					7.5	8.8	176	60	62	180	62	62	1.1	1.0	1.00	
31	1.066	19	35,100	.31					7.6	8.9	182	73	68	178	64	62	1.1	0.9	1.00	
TOT	33.418	530	1,017,900	11.25					7.6	8.9	180	62	64	180	64	62	1.0	0.9	.90	
AVG	1.078	17	32,835	.36																

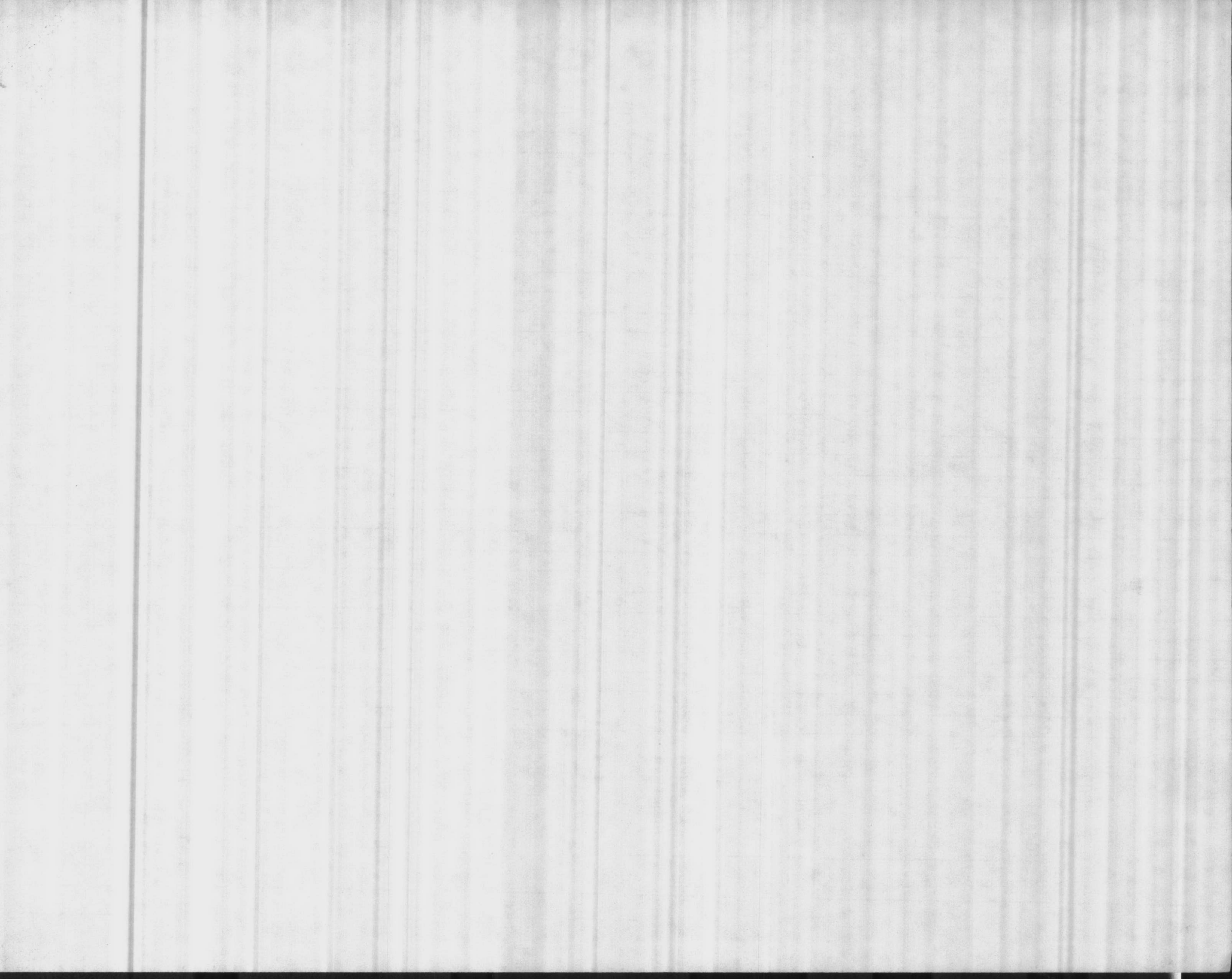
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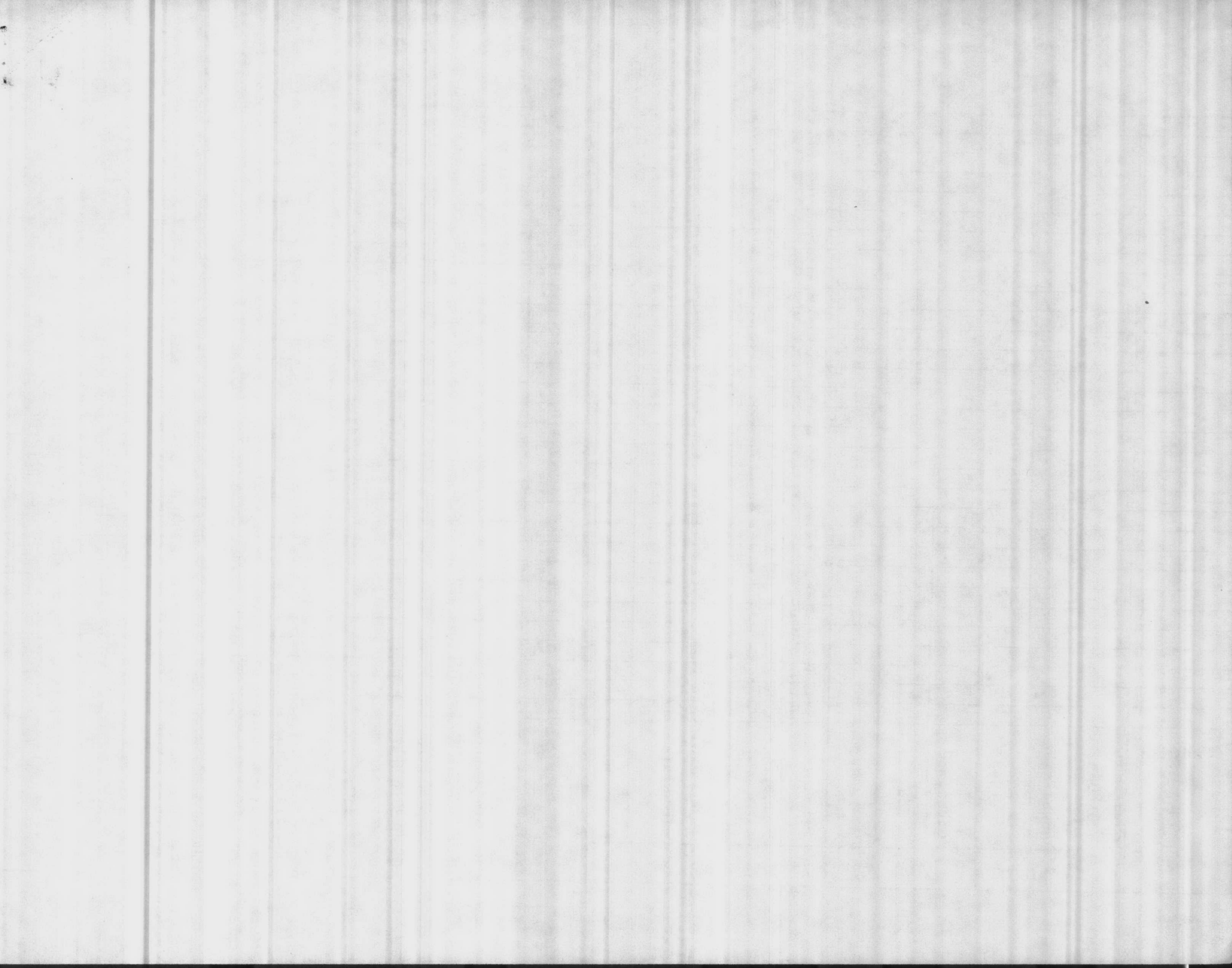
TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED		
0.205	14	8,200	/	/	50	/	/	6	/	/	182	50	52	/	/	/	1.2	1.0	/	
0.277	18	8,200	/	/	50	/	/	6	/	/	184	50	52	/	/	/	1.1	1.1	/	
0.193	14	8,200	/	/	50	/	/	7	/	/	170	48	52	/	/	/	1.2	1.1	/	
0.212	13.5	8,200	/	/	50	/	/	6	/	/	172	48	50	/	/	/	1.2	1.1	/	
0.203	14	8,200	/	/	50	/	/	6	/	/	174	48	50	/	/	/	1.0	1.1	/	
0.226	14	8,200	/	/	50	/	/	6	/	/	178	50	51	/	/	/	1.0	1.1	/	
0.193	13	8,200	/	/	50	/	/	6	/	/	176	50	52	/	/	/	1.1	1.0	/	
0.169	14	8,200	/	/	50	/	/	5	/	/	170	48	52	/	/	/	1.2	1.1	/	
0.191	13	8,200	/	/	50	/	/	5	/	/	172	48	52	/	/	/	1.1	1.0	/	
0.175	14	8,200	/	/	50	/	/	5	/	/	176	50	50	/	/	/	1.1	1.0	/	
0.195	13	8,200	/	/	50	/	/	3	/	/	178	50	50	/	/	/	1.1	1.0	/	
0.167	12	8,200	/	/	50	/	/	5	/	/	176	52	50	/	/	/	1.0	1.0	/	
0.161	13	8,200	/	/	50	/	/	5	/	/	186	50	52	/	/	/	1.1	0.9	/	Change Wells
0.175	14	8,200	/	/	50	/	/	6	/	/	188	48	60	/	/	/	1.1	1.2	/	
0.154	13	8,200	/	/	50	/	/	5	/	/	186	48	52	/	/	/	1.0	1.3	/	
0.170	14	8,200	/	/	50	/	/	5	/	/	188	48	50	/	/	/	1.2	1.2	/	
0.161	15	8,200	/	/	50	/	/	5	/	/	186	50	52	/	/	/	1.0	1.2	/	
0.181	16	8,200	/	/	50	/	/	6	/	/	188	50	54	/	/	/	1.0	1.1	/	
0.264	17	8,200	/	/	50	/	/	9	/	/	186	50	52	/	/	/	1.0	1.1	/	
0.262	14	8,200	/	/	50	/	/	4	/	/	188	50	52	/	/	/	1.1	1.0	/	
0.269	14	8,200	/	/	50	/	/	5	/	/	188	60	51	/	/	/	1.1	1.0	/	
0.205	13	8,200	/	/	50	/	/	5	/	/	186	50	52	/	/	/	1.1	1.0	/	
0.189	14	8,200	/	/	50	/	/	5	/	/	186	60	52	/	/	/	1.1	1.0	/	
0.185	13	8,200	/	/	50	/	/	5	/	/	188	50	52	/	/	/	1.1	1.0	/	
0.179	12	8,200	/	/	50	/	/	5	/	/	186	50	52	/	/	/	1.1	1.0	/	
0.159	14	8,200	/	/	50	/	/	5	/	/	182	50	52	/	/	/	1.1	1.0	/	
0.191	13	8,200	/	/	50	/	/	5	/	/	178	50	52	/	/	/	1.1	1.0	/	
0.189	13	8,200	/	/	50	/	/	5	/	/	184	64	53	/	/	/	1.1	1.0	/	
0.151	14	8,200	/	/	50	/	/	5	/	/	178	63	54	/	/	/	1.1	1.0	/	
0.158	12	8,200	/	/	50	/	/	5	/	/	174	50	56	/	/	/	1.1	1.0	/	
0.187	14	8,200	/	/	50	/	/	4	/	/	178	54	58	/	/	/	1.1	1.0	/	
5.577	429	254,200	/	/	1550	/	/	170	/	/				/	/	/			/	
180	14	8,200	/	/		/	/		/	/				/	/	/			/	

SIGNED *B. Smith*



TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
								RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
0.514	14	30,800		100			13				170	48	48				1.0	1.0		
0.587	14	39,600		50			15				180	54	56				1.3	1.2		
0.469	13	30,800		50			11				180	60	58				1.4	1.5		
0.491	13	33,000		50			14				190	58	58				1.5	1.4		
0.537	15	30,800		50			13				180	58	56				1.4	1.3		
0.677	16	35,200		50			12				190	56	54				1.4	1.3		
0.613	16	33,000		50			16				190	66	66				1.2	1.4		
0.560	14	30,800		50							196	62	58				1.4	1.4		
0.609	16	35,200		50							190	52	52				1.4	1.4		
0.505	14	33,000		50							190	50	50				1.4	1.4		
0.567	14	30,800		50							190	60	60				1.4	1.4		
0.520	16	33,000		100							200	52	50				1.2	1.2		
0.521	14	33,000		50			15				196	56	56				1.4	1.4		
0.547	15	35,200		50			13				188	48	50				1.4	1.5		
0.536	17	35,200		100			13				170	48	50				1.4	1.4		
0.573	14	30,800		50			10				174	48	50				1.3	1.3		
0.593	16	35,200		50			12				200	52	54				1.2	1.3		
0.591	14	32,600		50			11				180	48	50				1.3	1.3		
0.588	15	30,800		50			24				190	58	60				1.3	1.5		
0.684	19	35,200		50			17				200	60	60				1.6	1.5		
0.664	15	35,200		50							170	58	56				1.4	1.5		
0.702	17	33,000		50			12				180	60	62				1.4	1.5		
0.655	15	32,600		50			20				190	64	64				1.3	1.4		
0.610	14	30,800		50			16				190	60	62				1.3	1.4		
0.528	14	30,800		50			20				180	56	56				1.4	1.4		
0.563	13	33,000		50			13				190	56	56				1.3	1.3		
0.625	16	35,200		50			12				190	58	60				1.3	1.3		
0.600	14	35,200		00			22				190	62	60				1.3	1.3		
0.569	13	35,200		00			12				190	58	60				1.3	1.3		
0.508	12	35,200		00			13				190	56	58				1.4	1.3		
0.744	12	35,200		50			19				190	56	58				1.4	1.3		
18,070	45	7,003,000		1450			363													

SIGNED *[Signature]*



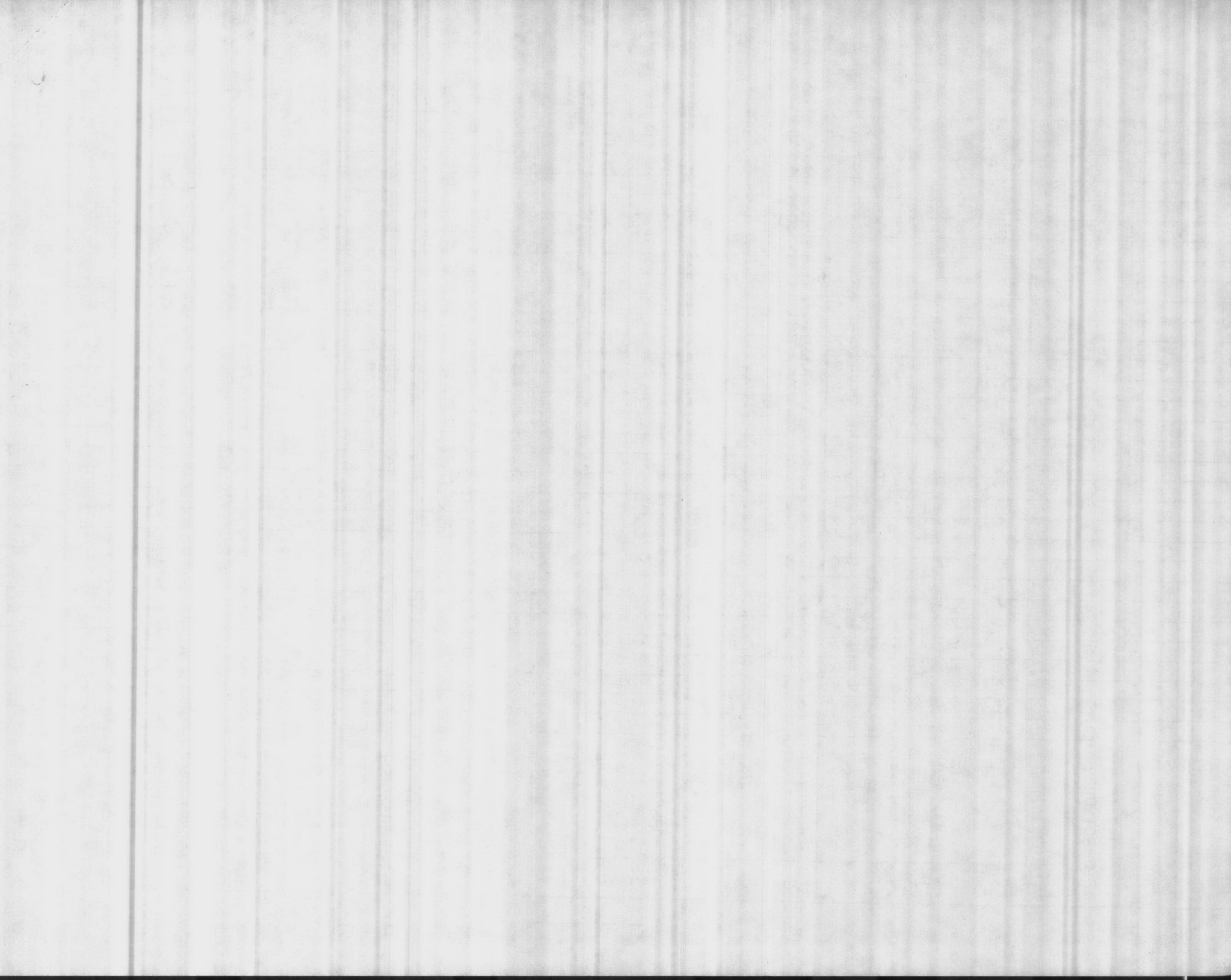
1786

NUMBER OF WELLS IN SYSTEM

2

TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU LIME PLTS ONLY)	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
								RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
.134	17	7,000	N/A	N/A	N/A	N/A		NA	NA	180	48	48	NA	NA	NA	1.7	2.0	NA		
.133	17	5,000	N/A	N/A	N/A	N/A		NA	NA	180	48	50	NA	NA	NA	1.8	1.7	NA		
.133	13	7,000	NA	NA	NA	NA		NA	NA	184	50	50	NA	NA	NA	1.5	1.5	NA		
.120	10	5,000	NA	NA	NA	NA		NA	NA	170	54	52	NA	NA	NA	1.1	1.6	NA		
.126	8	4,000	NA	NA	NA	NA		NA	NA	180	56	54	NA	NA	NA	1.2	1.3	NA		
.098	9	5,000	NA	NA	NA	NA		NA	NA	170	56	54	NA	NA	NA	1.4	1.2	NA		
.114	8	-	NA	NA	NA	NA		NA	NA	170	51	52	NA	NA	NA	1.4	1.9	NA		
.107	13	7,000	"	"	"	"		"	"	170	54	56	"	"	"	1.4	1.3	"		
.119	9	5,000	"	"	"	"		"	"	180	56	54	"	"	"	1.4	1.3	"		
.102	9	9,000	"	"	"	"		"	"	180	60	64	"	"	"	1.4	1.3	"		
.106	10	5,000	"	"	"	"		"	"	150	50	54	"	"	"	1.4	1.4	"		
.106	11	5,000	"	"	"	"		"	"	150	50	54	"	"	"	1.4	1.4	"		
.120	13	9,000	"	"	"	"		"	"	1160	48	50	"	"	"	1.9	1.3	"		
.114	10	-	"	"	"	"		"	"	1160	48	44	"	"	"	1.5	1.4	"		
.111	14	9,000	"	"	"	"		"	"	170	50	48	"	"	"	1.5	1.7	"		
.105	10	7,000	"	"	"	"		"	"	1160	54	56	"	"	"	1.4	1.6	"		
.113	12	7,000	"	"	"	"		"	"	1160	54	48	"	"	"	1.4	1.7	"		
.109	12	7,000	"	"	"	"		"	"	1160	54	52	"	"	"	1.4	1.6	"		
.114	12	9,000	"	"	"	"		"	"	1160	50	48	"	"	"	1.4	1.8	"		
.116	12	7,000	"	"	"	"		"	"	150	50	48	"	"	"	1.3	1.3	"		
.109	9	7,000	"	"	"	"		"	"	1160	50	48	"	"	"	1.4	1.8	"		
.122	12	7,000	"	"	"	"		"	"	164	50	50	"	"	"	1.8	1.3	"		
.061	16	9000	"	"	"	"		"	"	180	50	54	"	"	"	1.8	1.3	"		
.066	9	5000	-	-	-	-		-	-	180	50	52	-	-	-	1.7	1.4	-		
.075	12	7000	-	-	-	-		-	-	158	48	50	-	-	-	1.8	1.4	-		
.080	5	7000	-	-	-	-		-	-	162	50	50	-	-	-	1.8	1.4	-		
.052	11	9000	-	-	-	-		-	-	180	56	58	-	-	-	1.7	1.4	-		
.049	8	5,000	-	-	-	-		-	-	180	58	52	-	-	-	1.5	1.4	-		
.082	8	7,000	-	-	-	-		-	-	160	50	54	-	-	-	1.5	1.4	-		
.060	10	16,000	-	-	-	-		-	-	160	56	58	-	-	-	1.8	1.5	-		
.044	7	7,000	-	-	-	-		-	-	180	50	56	-	-	-	1.8	1.5	-		
3,067	340	193,000																		
.098	11	6,000																		

SIGNED *[Signature]*



MONTH October

PUBLIC WATER SYSTEM FOR: HADNOT POINT

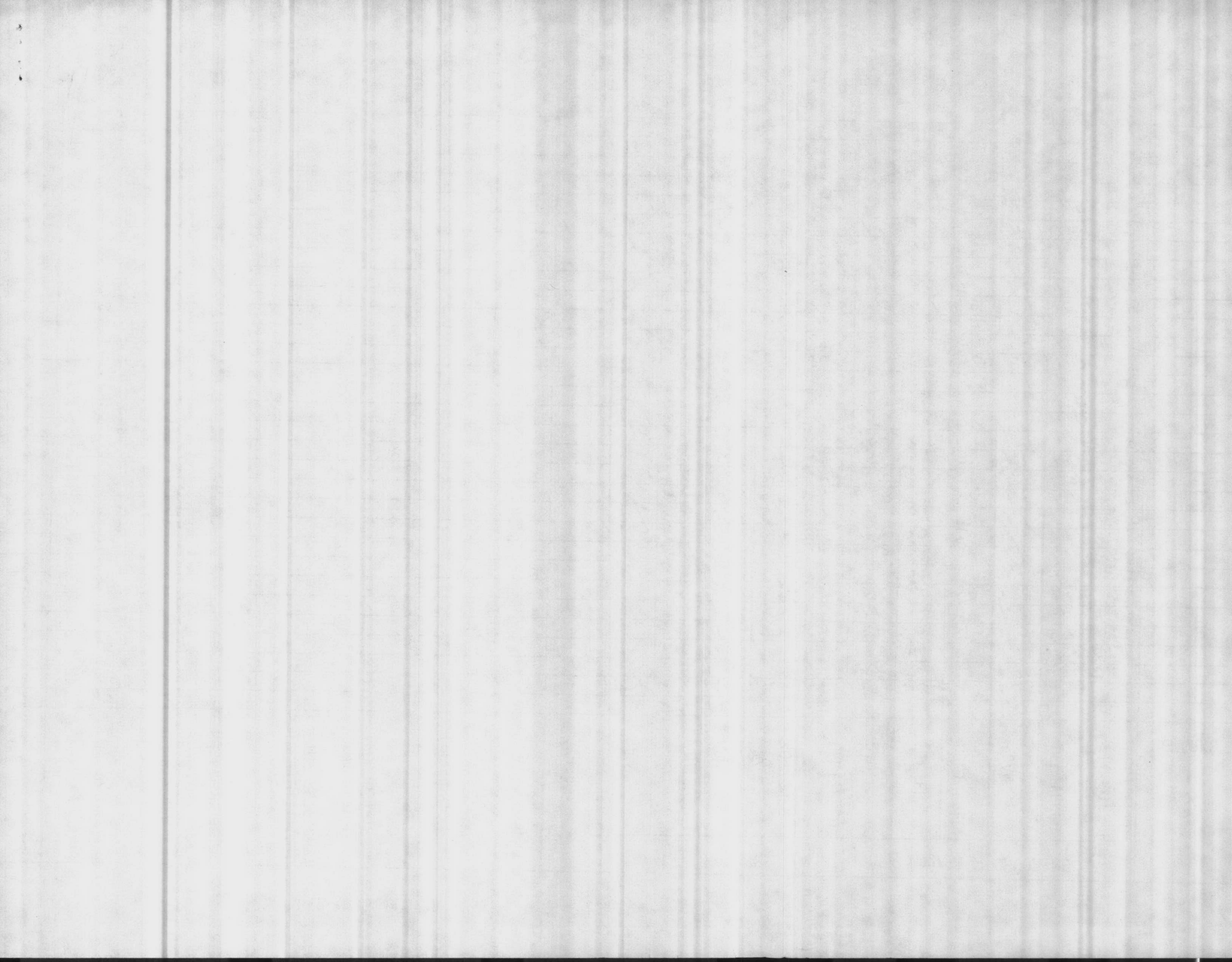
PWSID: 04-67-049

YEAR 86

NUMBER OF WELLS IN SYSTEM 35

DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
										RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	3.988	24	39,900							7.6	8.7	171	59	62	155	54	54	1.0	1.0	1.16		
2	3.657	24	39,900							8.4	8.8	164	60	61	155	50	54	1.0	0.9	1.15		
3	2.413	24	39,900							8.3	8.9	165	62	63	153	52	52	1.1	1.0	0.29		
4	2.222	24	39,900							8.2	8.8	160	58	61	153	52	53	1.1	1.0	0.18		
5	2.762	24	0							8.6	8.8	165	57	59	152	50	51	1.0	0.8	1.05		
6	2.069	24	79,800							8.5	8.8	165	54	60	158	52	51	1.1	1.0	1.08		
7	2.381	24	39,900							8.5	8.9	163	58	58	154	52	52	1.2	1.1	0.56		
8	2.619	24	79,800							8.6	8.8	163	59	59	155	51	51	1.1	1.1	0.92		
9	3.012	24	39,900							8.3	8.9	163	59	62	153	52	51	1.1	1.1	1.06		
10	2.381	24	79,800							8.5	8.8	165	58	60	155	53	52	1.0	1.1	1.11		
11	1.979	24	39,900							8.6	8.8	167	57	58	155	51	51	1.1	1.0	0.98		
12	1.868	24	39,900							8.6	8.8	166	57	58	153	50	52	1.1	1.0	0.71		
13	2.190	24	39,900							8.4	8.8	156	57	58	150	50	52	1.1	1.0	0.85		
14	2.502	24	39,900							8.4	8.6	158	61	59	155	50	51	1.1	1.0	1.08		
15	2.594	24	39,900							7.4	8.7	160	57	58	154	51	51	1.1	1.1	0.59		
16	2.513	24	79,800							7.6	8.7	160	57	58	156	52	50	1.1	1.0	0.91		
17	2.691	24	39,900							7.6	8.7	160	58	58	154	51	50	1.1	1.0	1.14		
18	2.142	24	79,800							7.5	8.7	161	58	58	155	50	50	1.1	1.0	1.08		
19	2.150	24	39,900							8.0	8.6	166	58	58	154	50	50	1.1	1.0	1.04		
20	2.485	24	39,900							8.0	8.8	166	60	60	153	52	52	1.1	1.0	1.06		
21	2.660	24	39,900							8.0	8.9	166	60	64	156	49	52	1.3	1.1	0.93		
22	3.197	24	79,800							8.6	8.9	148	59	60	133	47	49	1.1	1.1	0.93		
23	3.811	24	39,900							8.9	9.0	154	60	62	148	50	51	1.0	1.1	1.01		
24	3.258	24	119,700							7.6	9.0	184	60	63	148	50	54	1.0	1.0	1.06		
25	2.309	24	39,900							7.9	8.9	166	61	63	148	52	52	1.1	1.0	0.89		
26	2.410	24	79,800							8.1	8.9	156	50	58	144	53	51	1.1	1.0	0.95		
27	2.625	24	39,900							9.1	8.9	170	60	58	148	52	50	1.1	1.0	1.02		
28	2.794	24	79,800							7.9	8.9	168	58	60	152	51	52	1.1	1.0	1.05		
29	2.712	24	39,900							7.8	9.1	175	59	60	158	44	53	1.0	1.0	0.94		
30	2.850	24	79,800							7.6	8.9	174	58	60	160	49	53	1.1	1.0	0.94		
31	2.800	24	39,900							7.6	8.8	178	62	64	162	52	60	1.0	1.0	0.79		
TOT	82.933	24	1635900																			
AVG	2.675	24	52770																			

SIGNED B. Smith



5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operation Forms

Writer: B. M. Frazelle, Water, X1081
Typist: S. Kolde, 5 Jan 87

8000
1411

Water Supply Branch
Division of Health Services
Post Office Box 2001
Baltimore, Maryland 21205-2001

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

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Sincerely,

M. G. HILLEY
Colonel, U.S. Marine Corps
Base Maintenance Officer
in direction of commanding general

Enc: (1) Plant Operation Form





Report of Operation

Month: DECEMBER

Year: 1980

Total Number of Wells in System: 8

PUBLIC WATER SYSTEM FOR: Holcomb Blvd Water Plant

PWSID: 04-67-043

Date	Total Water Pumped (MGD)	Hours Plant Oper	Brkwn Water Used (Gals)	Turbidity (NTU)	Chlorine Lime			Flouride		pH		Hardness (mg/l)			Alkalinity (mg/l)			Free Chlorine Resid (mg/l)		Fluoride (mg/l)
					Used (lbs)	Used (lbs)	Used (lbs)	Raw	Finish	Raw	Softener	Deliver	Raw	Filter	Deliver	Plant	Deliver	Deliver		
1	1.149	19.0	35,100	0.17	18			7.7	8.9	180	63	61	181	60	58	1.2	0.9	0.94		
2	0.878	17.0	35,100	0.17	16			7.7	8.8	178	56	56	175	48	47	1.2	1.0	0.95		
3	0.836	13.0	35,100	0.27	16			7.8	8.8	174	72	56	173	55	61	0.9	0.8	0.91		
4	1.111	16.0	35,100	0.59	16			7.7	8.8	175	89	72	175	58	53	1.1	0.9	0.80		
5	0.854	14.0	35,100	0.60	20			7.8	8.8	187	82	78	190	88	79	1.2	0.6	1.02		
6	0.875	15.0	35,100	0.51	16			7.8	9.3	183	56	60	179	54	72	1.7	0.9	0.84		
7	0.817	15.0	35,100	0.31	16			7.7	9.0	182	58	58	184	58	44	1.4	1.1	0.89		
8	0.777	13.0	35,100	0.26	14			7.5	9.0	160	48	54	185	56	46	1.1	1.0	0.89		
9	0.806	15.0	35,100	0.25	15			7.5	8.8	180	65	61	189	61	56	1.3	1.1	0.91		
10	0.810	19.0	35,100	0.29	17			7.6	8.8	180	61	60	184	56	57	1.1	1.2	0.89		
11	0.964	18.0	35,100	0.27	22			8.3	8.9	178	60	64	176	53	57	0.9	1.5	1.02		
12	1.067	18.0	35,100	0.27	21			7.5	8.9	180	58	59	176	55	54	1.0	1.0	1.04		
13	0.973	19.0	35,100	0.29	24			7.7	9.0	176	64	58	172	60	56	1.2	0.9	0.84		
14	1.155	19.0	35,100	0.46	18			7.6	9.0	170	62	61	179	56	60	1.2	0.9	0.78		
15	0.187	4.0	0	0.75	6			7.6	9.0	170	55	60	179	57	57	1.3	1.0	0.73		
16	0.000	0.0	0		0															
17	0.046	0.0	0		3															
18		0.0	0	0.00	0			0.0	0.0	0	0	0	0	0	0	0.0		0.00		
19	0.988	11.0	70,200	0.48	11			7.6	8.8	170	84	70	179	74	71	1.1	1.1	0.00		
20	1.028	12.0	35,100	1.36	18			7.7	9.1	188	60	66	187	62	66	1.3	0.9	0.33		
21	0.894	14.0	35,100	0.98	16			7.6	9.0	188	59	55	188	56	53	1.1	0.9	0.70		
22	0.985	15.0	35,100	0.53	14			7.5	8.9	186	60	58	184	55	57	1.2	1.1	1.06		
23	0.928	18.0	35,100	0.36	18			7.4	8.9	186	57	59	187	55	55	1.3	1.1	0.64		
24	0.923	14.0	35,100	0.36	14			7.5	8.8	186	67	62	186	63	56	1.4	1.1	0.61		
25	0.939	13.0	35,100	0.30	13			7.4	9.0	188	57	60	185	56	56	1.2	1.0	0.66		
26	0.960	14.0	35,100	0.26	18			7.6	8.9	184	58	58	178	54	54	1.0	0.8	0.66		
27	0.866	16.0	35,100	0.27	20			7.7	8.8	187	60	54	179	62	55	1.2	0.8	0.69		
28	0.909	15.0	35,100	0.24	19			7.5	8.8	184	60	59	188	51	54	1.1	0.8	0.75		
29	0.974	15.0	35,100	0.24	21			7.6	9.0	180	59	56	174	59	54	1.2	0.9	0.77		
30	0.914	16.0	35,100	0.20	16			7.7	8.8	188	74	66	184	66	66	1.1	0.9	0.82		
31	0.892	16.0		0.19	16			7.9	8.8	186	67	56	174	66	57	1.0	0.9	0.90		
Total	25.505	423.0	947,700	11.230	472	0	0	214.2	249.4	5054	1771	1697	5070	1654	1611	33.0	27.10	22.04		
Avg	0.823	13.6	30,571	0.362	15	0	0	6.9	8.6	163	57	55	164	53	52	1.1	0.87	0.71		
Max	1.155	19.0	70,200	1.360																
Min	0.000	0.0	0	0.000																

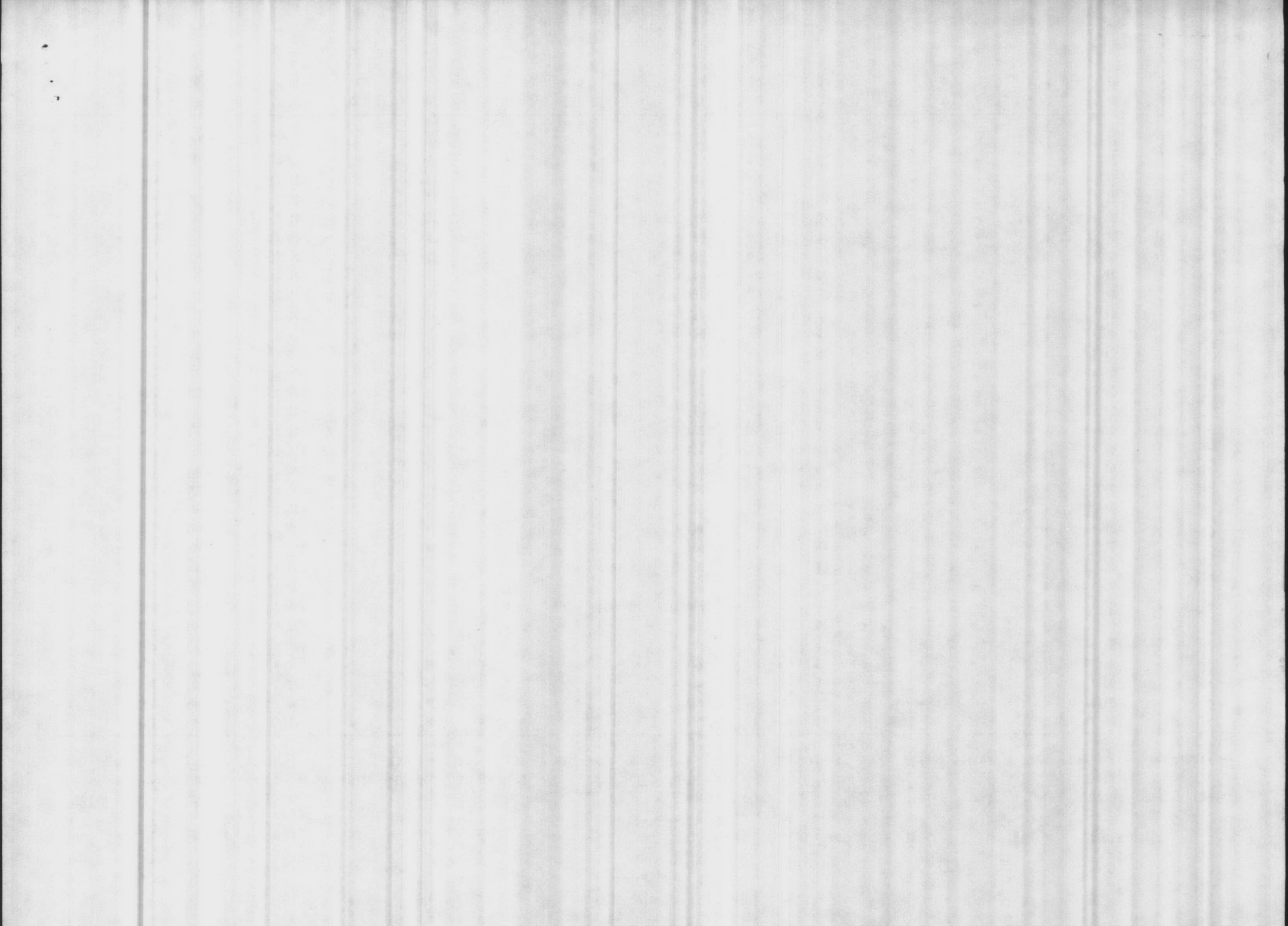
PLANT
PLANT

PLANT









5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. M. Frazelle, W/WW, X5988
Typist: S. Kolde, 3 Feb 87

N.C. DEPARTMENT OF HUMAN RESOURCES -- DIVISION OF HEALTH SERVICES -- ENVIRONMENTAL HEALTH SERVICE
Report of Operation

Month: JANUARY

Year: 1987

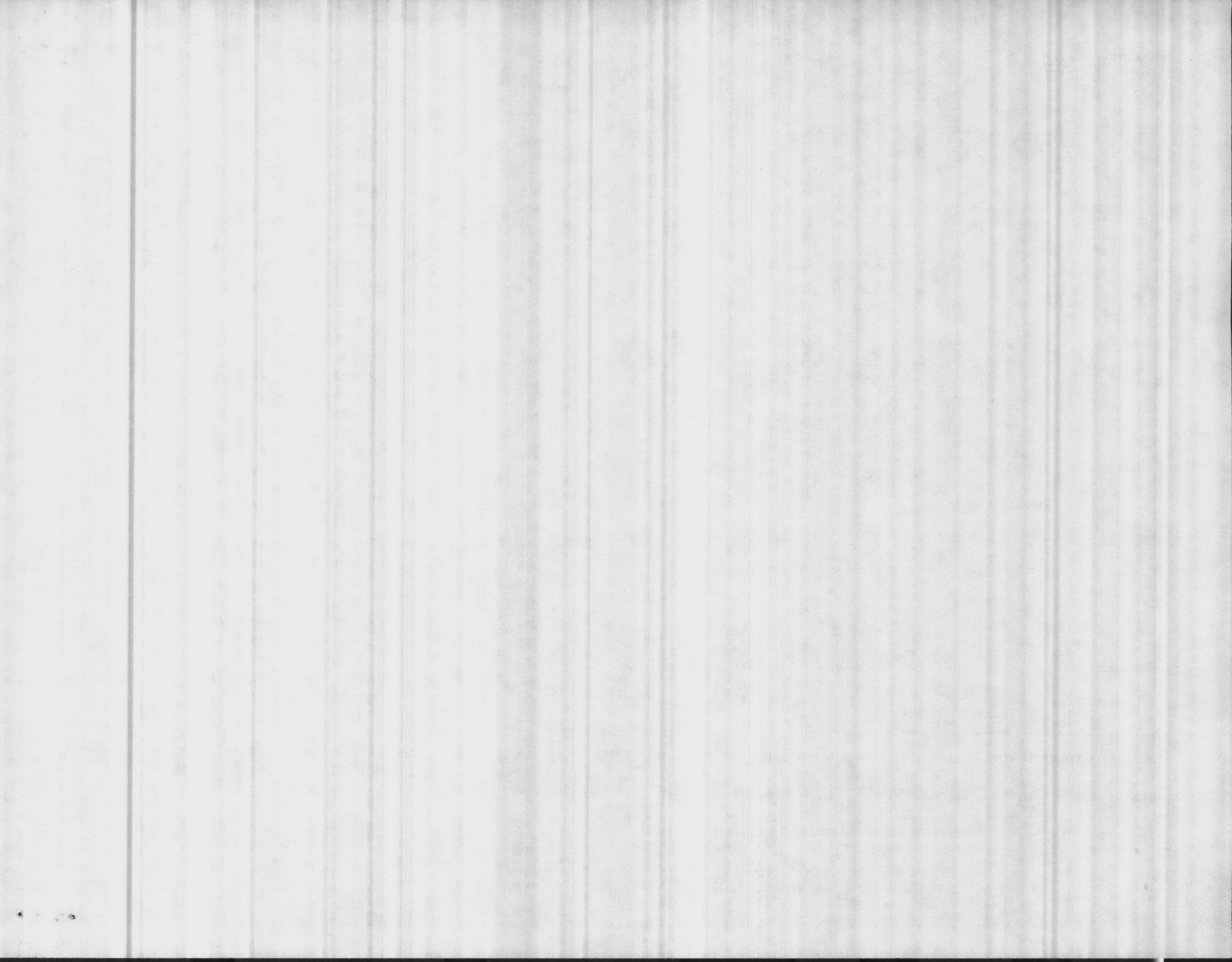
Total Number of Wells in System: 5

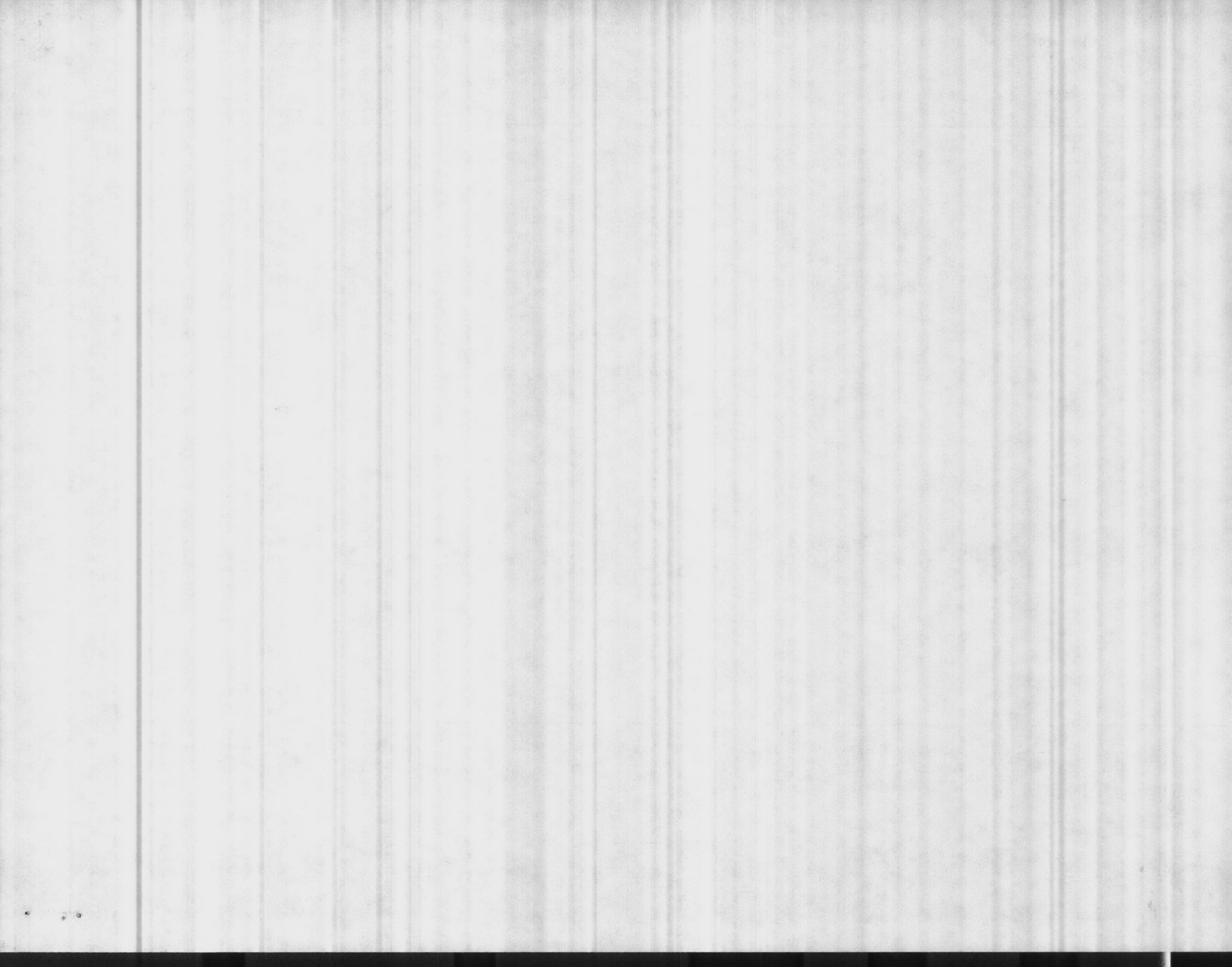
PUBLIC WATER SYSTEM FOR: Courthouse Bay Water Plant

PWSID: 04-67-047

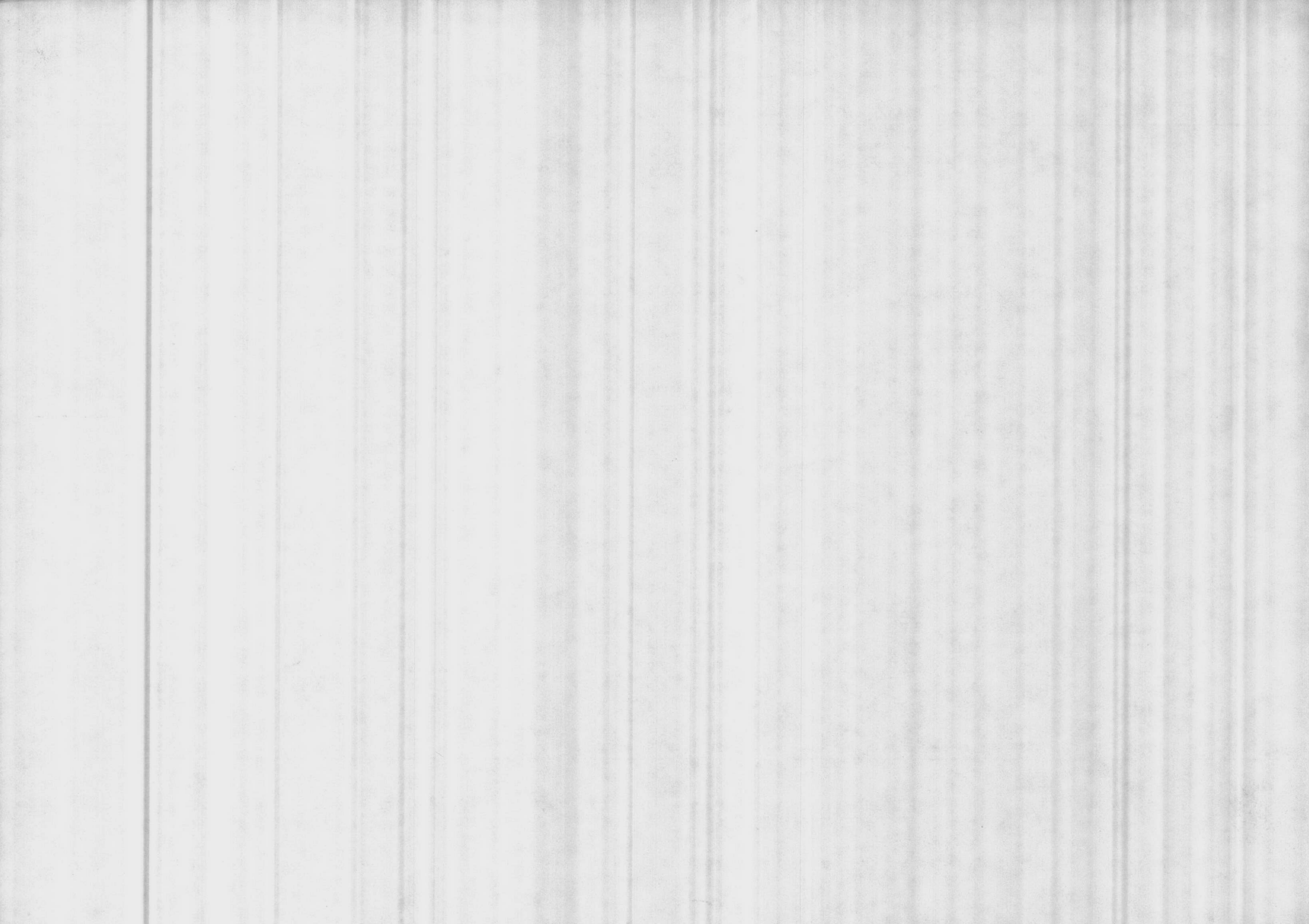
Date	Total Water Pumped (MGD)	Hours Plant Oper	Bkwh Water Used (Gals)	Turbidity (NTU)	Chlorine			Lime			Flouride			pH		Hardness (mg/l)			Alkalinity (mg/l)			Free Chlorine Resid (mg/l)		
					Used (lbs)	Used (lbs)	Used (lbs)	Used (lbs)	Used (lbs)	Used (lbs)	Raw	Finish	Raw	Softener	Deliver	Raw	Filter	Deliver	Plant	Deliver	FD			
1	0.444	14.0	33,000		12	50									180	56	46						1.6	1.8
2	0.536	15.0	35,200		13	50									180	50	48						1.5	1.5
3	0.445	14.0	35,200		10	50									180	50	50						1.3	1.1
4	0.469	13.0	33,000		12	50									180	50	50						1.2	1.2
5	0.539	14.0	33,000		13	50									180	50	50						1.3	1.3
6	0.550	19.0	33,000		16	50									178	50	50						1.3	1.3
7	0.670	21.0	35,200		18	50									174	52	54						1.3	1.3
8	0.611	17.0	35,200		13	50									170	50	52						1.3	1.3
9	0.704	18.0	33,000		23	50									180	50	48						1.4	1.4
10	0.513	16.0	35,200		12	50									180	50	48						1.3	1.3
11	0.547	14.0	30,800		13	50									186	50	48						1.4	1.4
12	0.533	16.0	33,000		14	50									182	52	50						1.5	1.5
13	0.633	17.0	35,200		18	50									184	50	52						1.6	1.6
14	0.557	18.0	35,200		15	50									180	58	60						1.6	1.6
15	0.693	17.0	33,000		15	50									186	50	50						1.5	1.4
16	0.526	18.0	33,000		15	50									180	58	60						1.6	1.5
17	0.510	13.0	33,000		15	50									178	54	54						1.5	1.4
18	0.508	12.0	35,200		15	50									180	52	52						1.5	1.4
19	0.517	12.0	33,000		10	50									176	52	54						1.4	1.4
20	0.521	12.0	33,000		12	50									180	52	50						1.3	1.2
21	0.645	16.0	33,000		16	50									180	50	50						1.2	1.2
22	0.524	14.0	33,000		14	50									184	50	50						1.4	1.2
23	0.574	14.0	33,000		14	50									180	52	50						1.4	1.3
24	0.537	13.0	33,000		13	50									180	68	62						1.4	1.4
25	0.564	13.0	33,000		16	50									180	56	56						1.6	1.5
26	0.564	13.0	33,000		16	50									180	56	56						1.6	1.5
27	0.610	15.0	33,000		12	50									186	52	50						1.2	1.3
28	0.547	13.0	33,000		12	50									184	50	52						1.5	1.5
29	0.505	14.0	33,000		15	50									180	50	50						1.2	1.1
30	0.614	15.0	33,000		13	50									184	50	50						1.4	1.4
31	0.476	12.0	35,200		9	50									170	60	54						1.2	1.2
Total	17.186	462.0	1,040,600	0.00	434	1550	0	0.0	0.0	5582	1630	1606	0	0	0	0	0	0	0	0	0	0	43.5	42.5
Avg	0.554	14.9	33,568	0.00	14	50	0	0.0	0.0	180	53	52	0	0	0	0	0	0	0	0	0	0	1.4	1.4
Max	0.704	21.0	35,200	0.00																				
Min	0.444	12.0	30,800	0.00																				

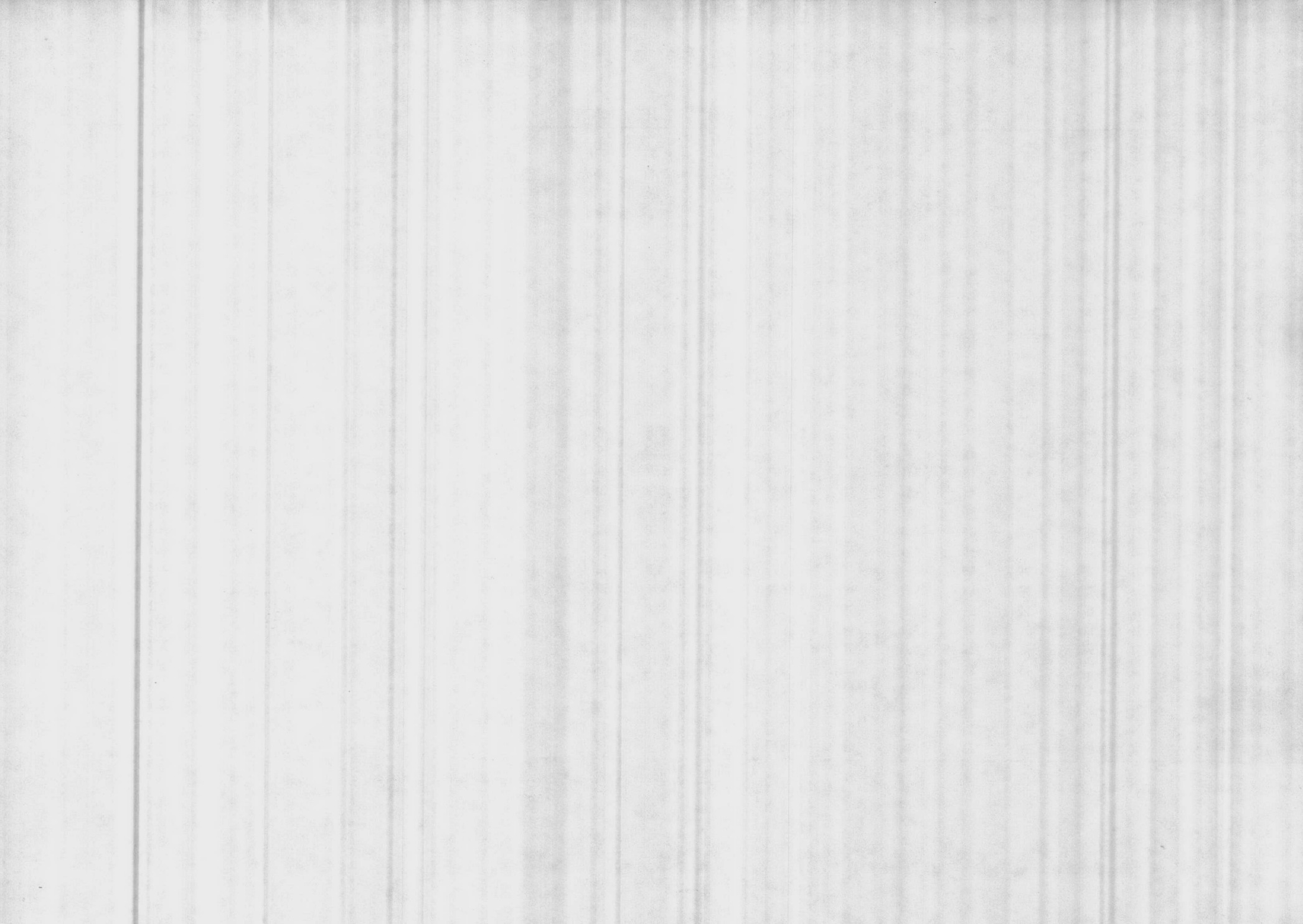
ENCL (1)













5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

for the month of March 1987

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. Frazelle, W/WW, X5988
Typist: S. Kolde, 5 Mar 87











5000
MAIN

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of April 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. Frazelle, X5988
Typist: S. Kolde, 4 May 87

TABLE 1. KINGS & WIFE OF
PLAZA 11, 1938

(1) KING AND WIFE OF
PLAZA 11, 1938

PLAZA 11, 1938
KING AND WIFE OF
PLAZA 11, 1938

PLAZA 11

PLAZA 11, 1938

PLAZA 11, 1938

PLAZA 11, 1938

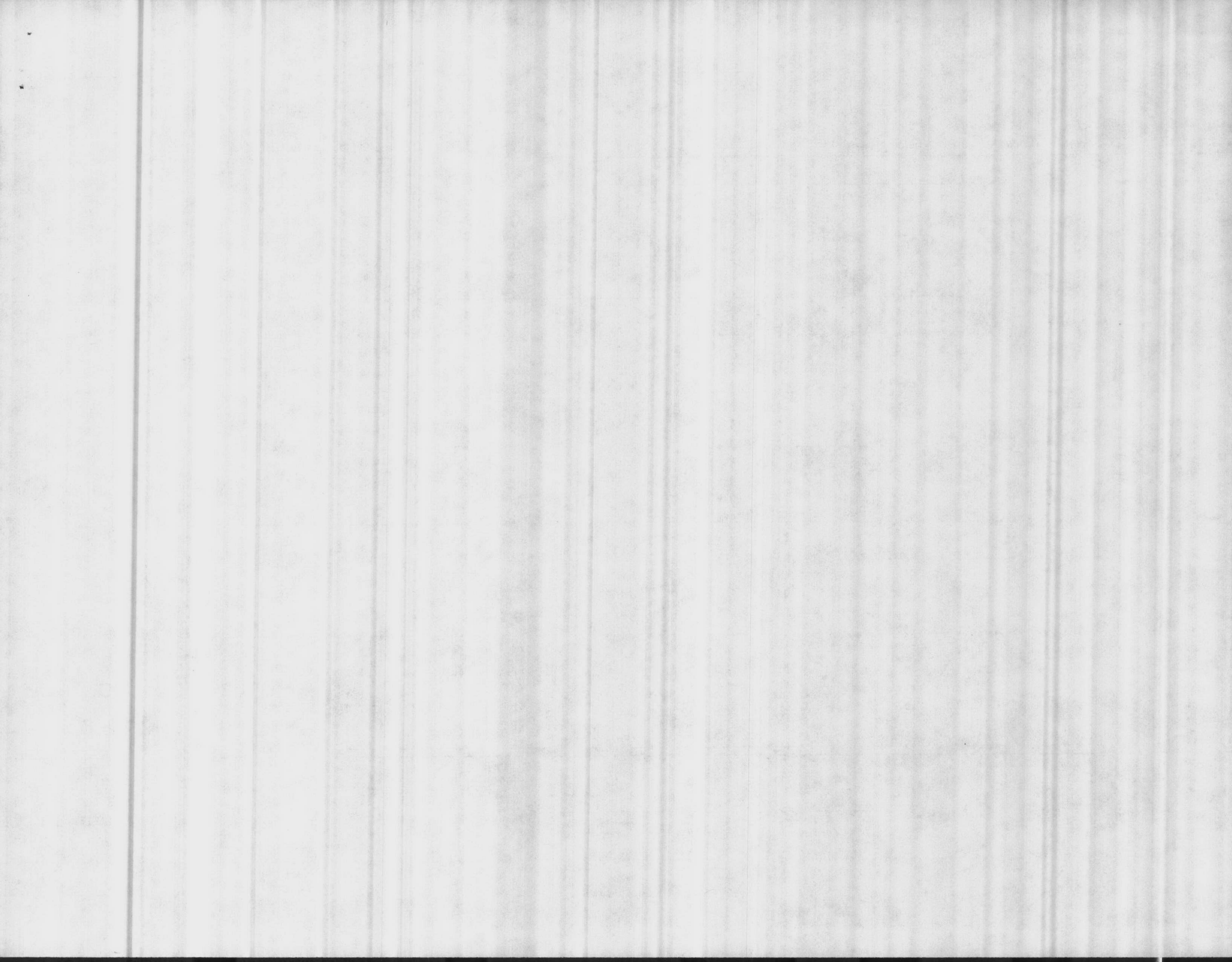
PLAZA 11

PLAZA 11, 1938

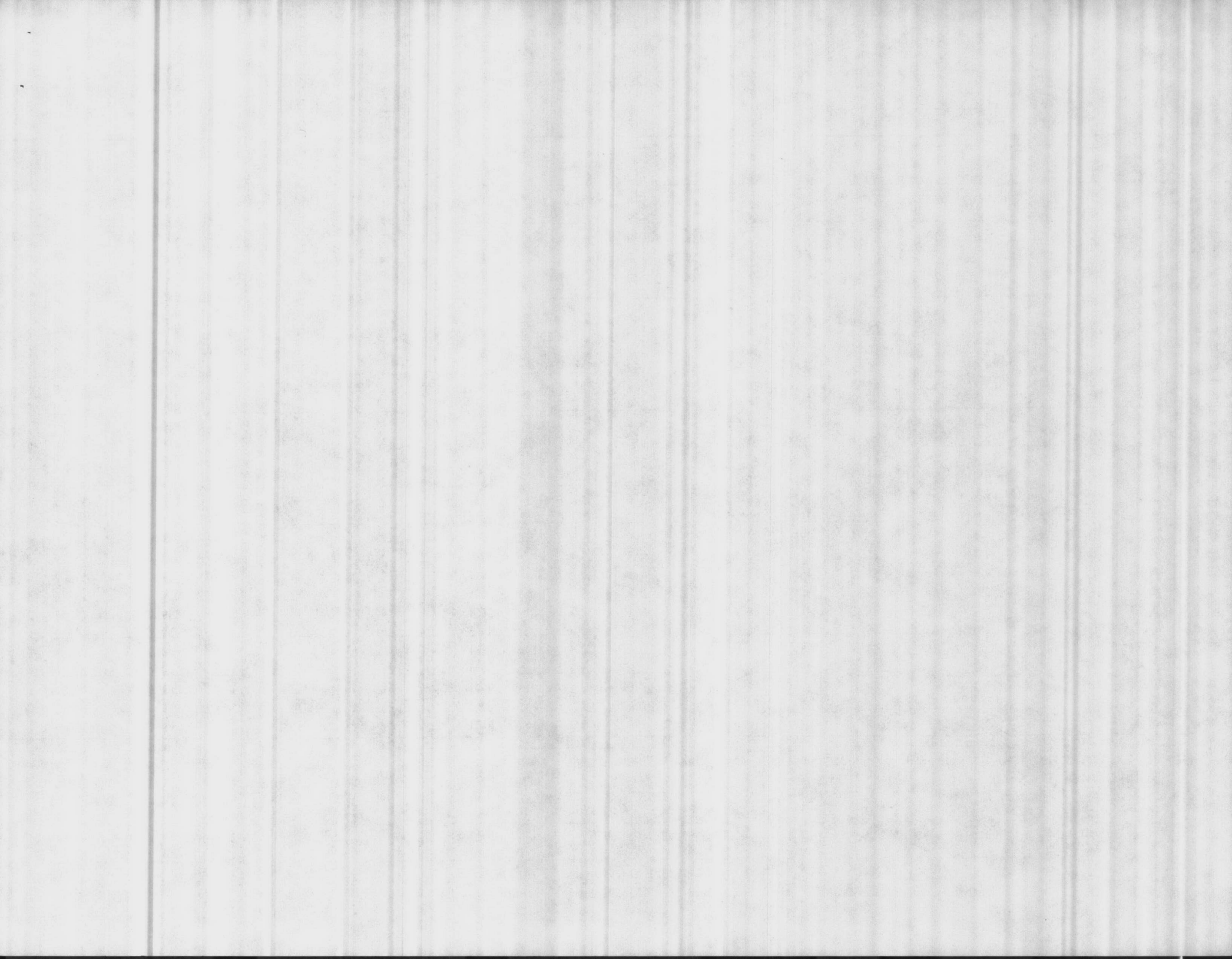
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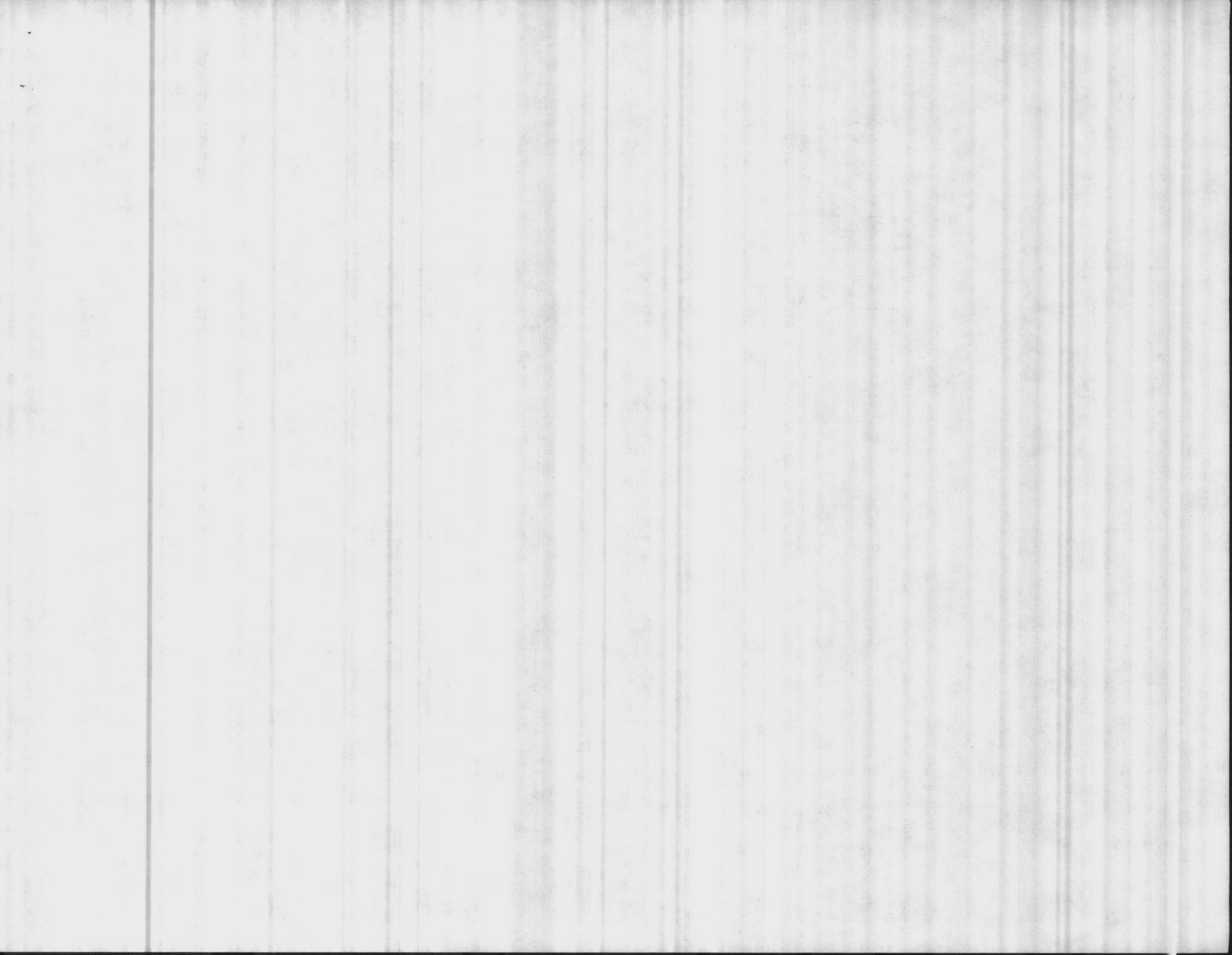
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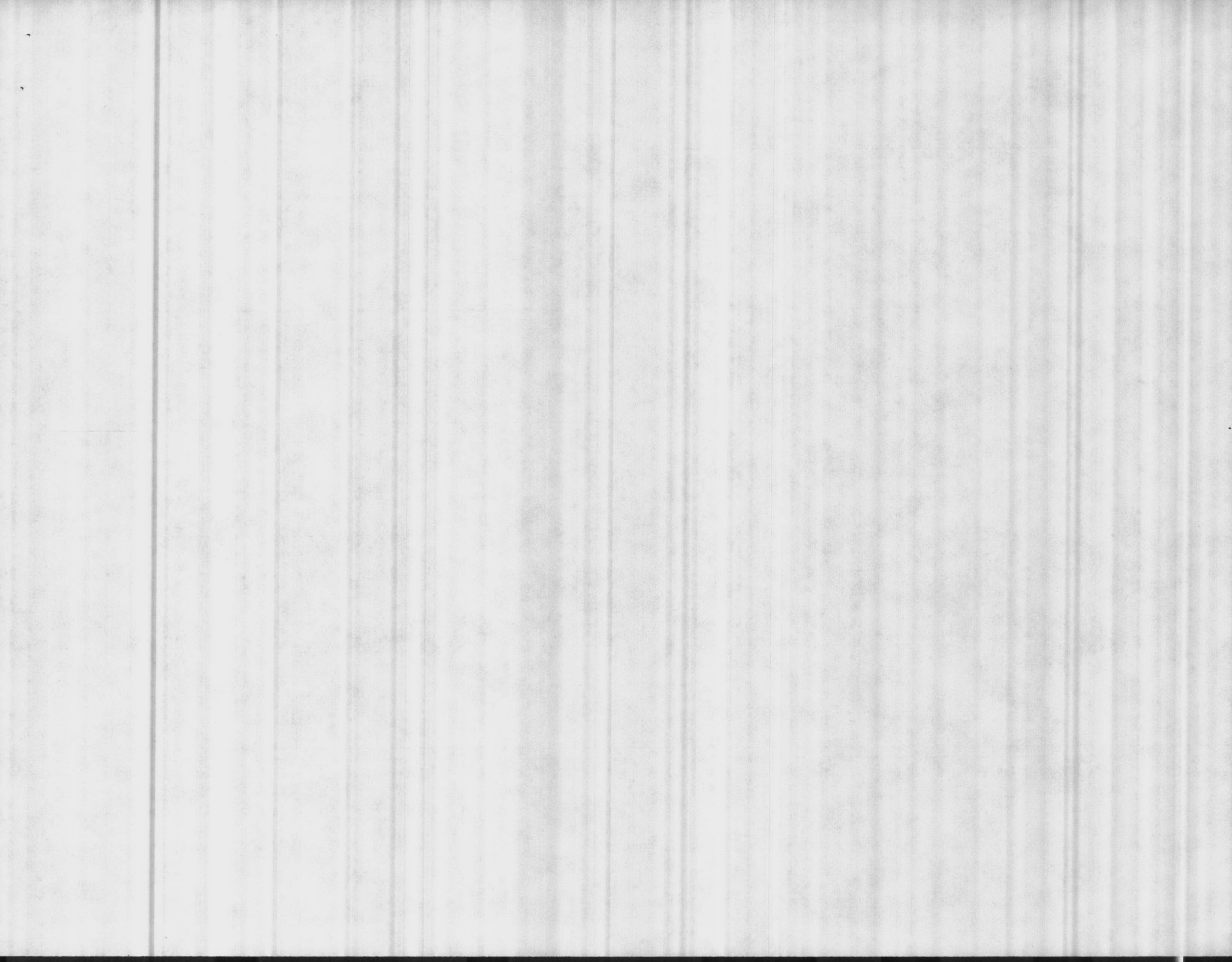
PLAZA 11, 1938

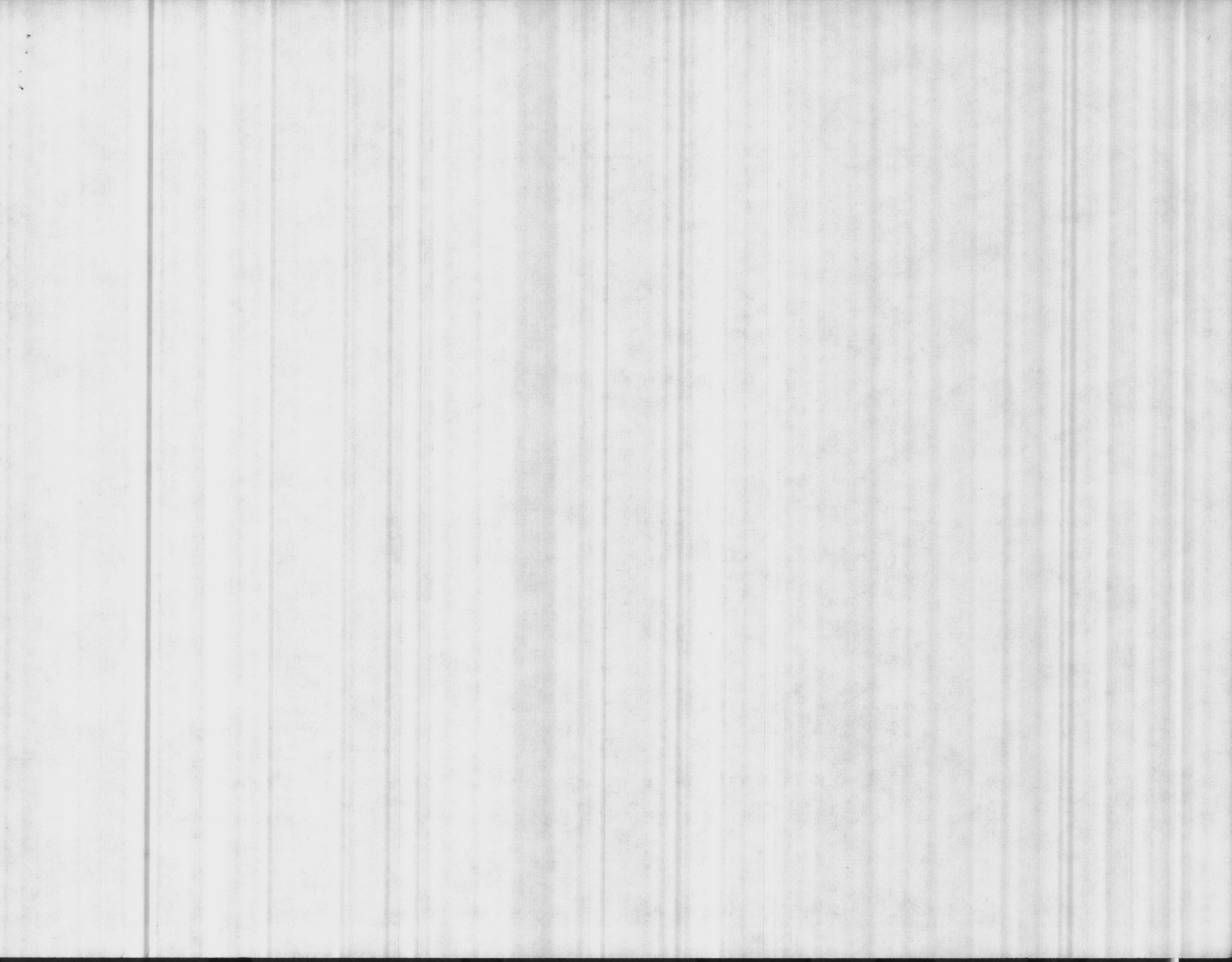












5000
MAIN

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of June 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. Frazelle, W/WW, X5988
Typist: S.P.Kolde, 2 Jul 87

100-100000

Director of Health Services
100-100000

It is the policy of the Department of Health Services to provide for the health and safety of the community by maintaining the highest standards of health care and by providing for the most efficient use of resources.

Director

Director of Health Services
100-100000

100-100000

Director of Health Services
100-100000

5000
MAIN

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of March 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. Frazelle, W/WW, X5988
Typist: P. Snodgrass, 2 Apr 87

3010
11/11

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

We request the attached forms concerning the protection of our water
treatment facilities for the month of March 1987 are submitted.

If we can be of any further assistance, please contact us at your
convenience.

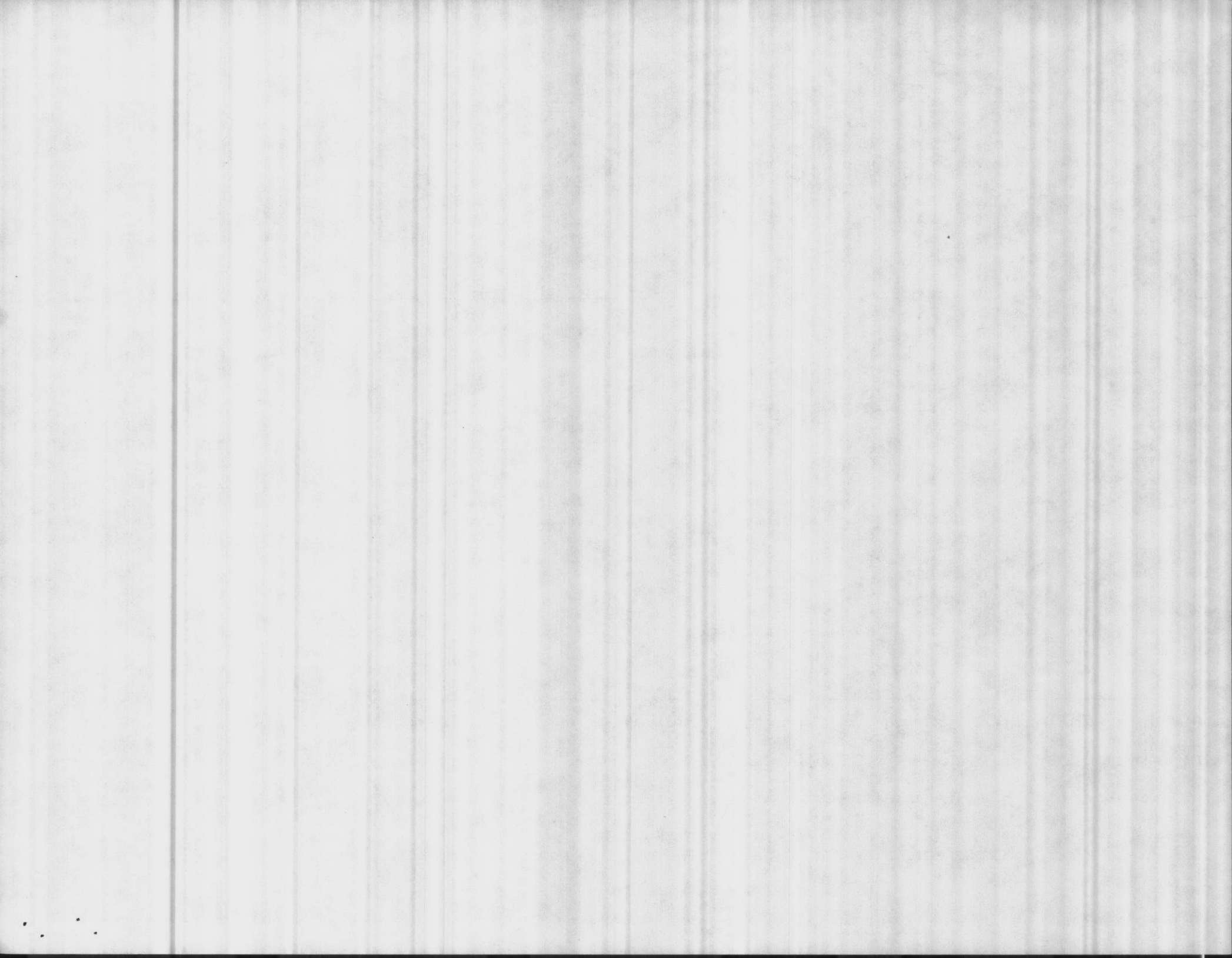
Sincerely,

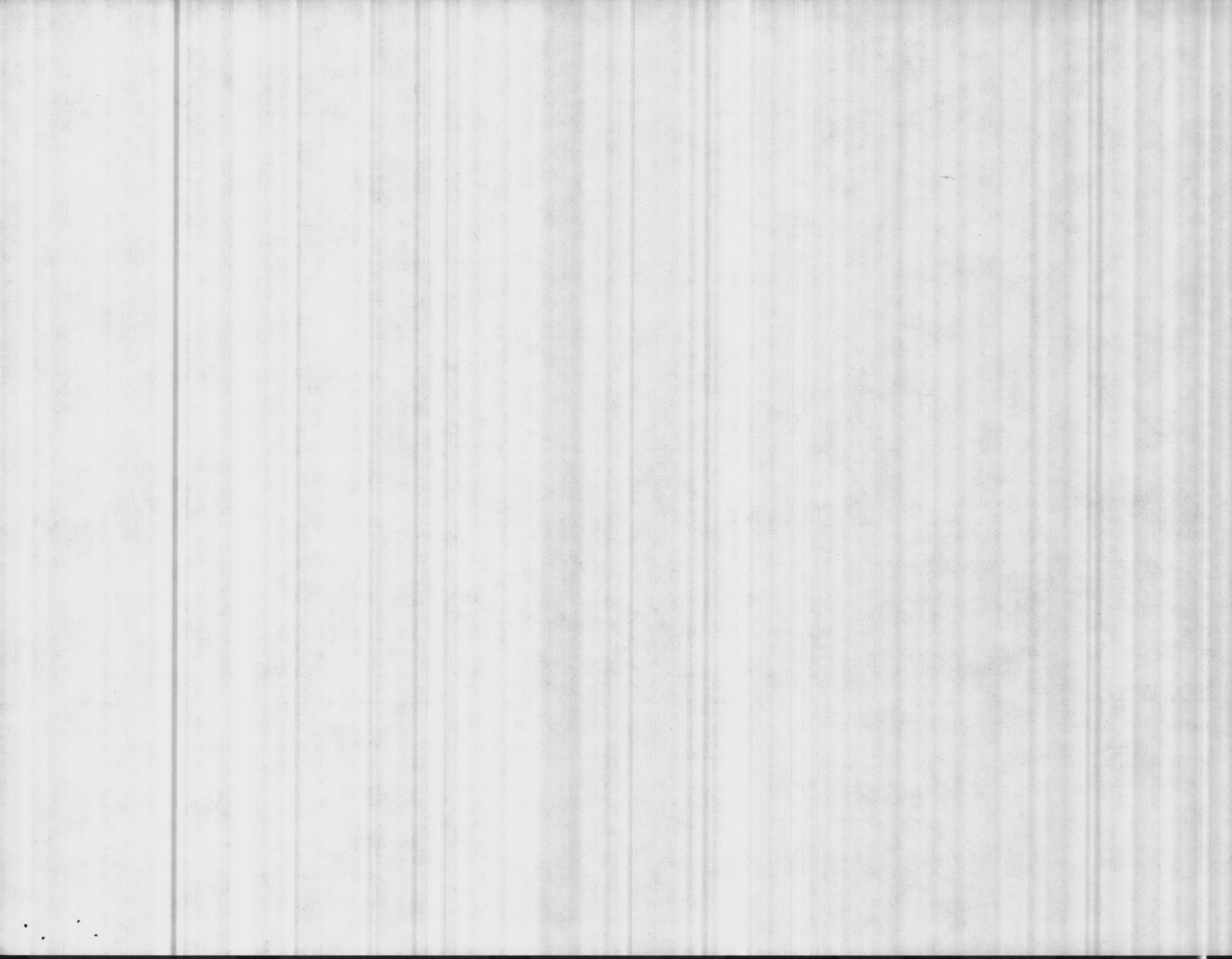
M. G. LILLY
Colonel, U. S. Marine Corps
Base Maintenance Officer
by direction of Commanding General

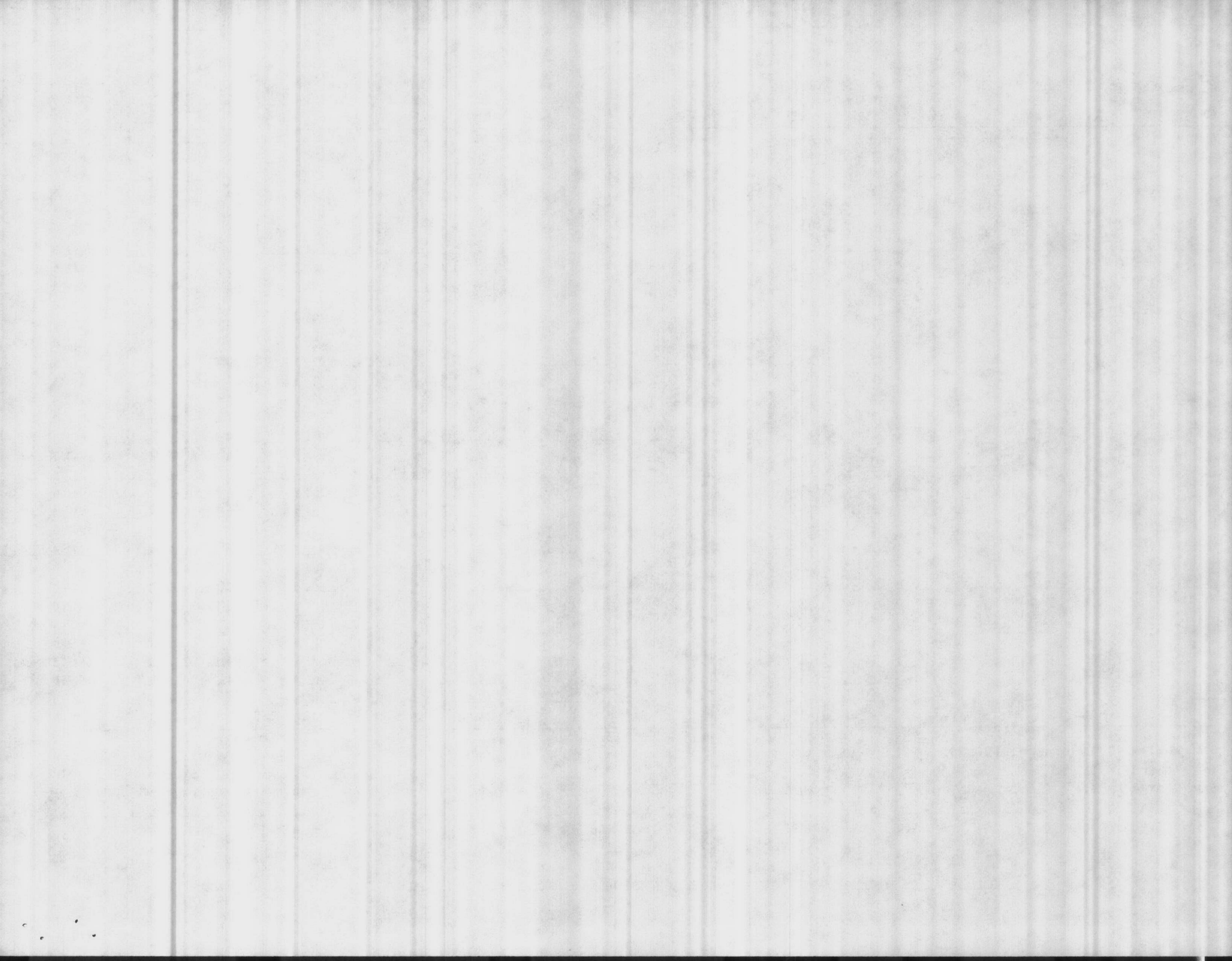
Enc: (1) - 11/11/86
(1) - 11/11/86

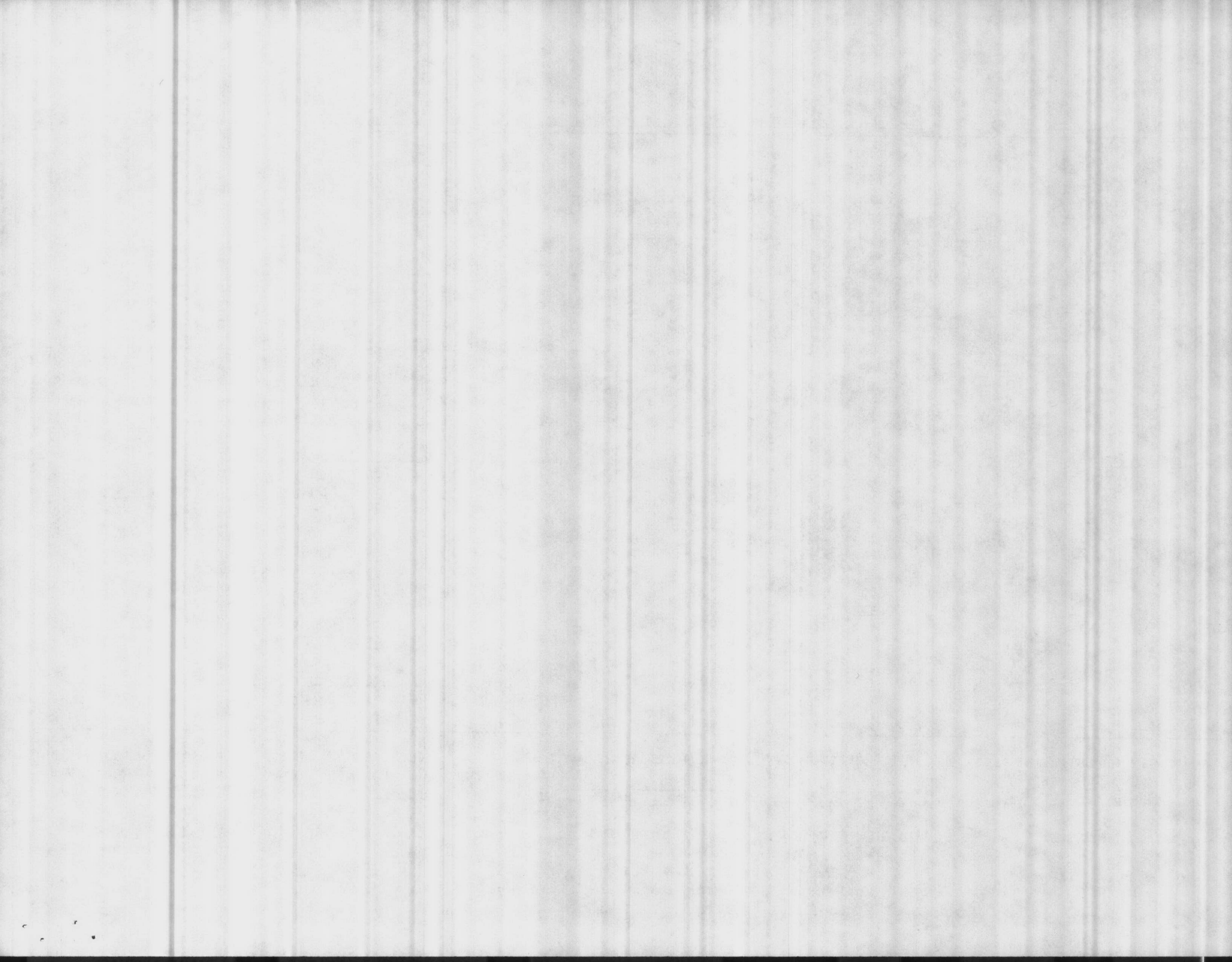
Printed on Recycled Paper, 100%
Typed: R. S. Jones, 2 Apr 87

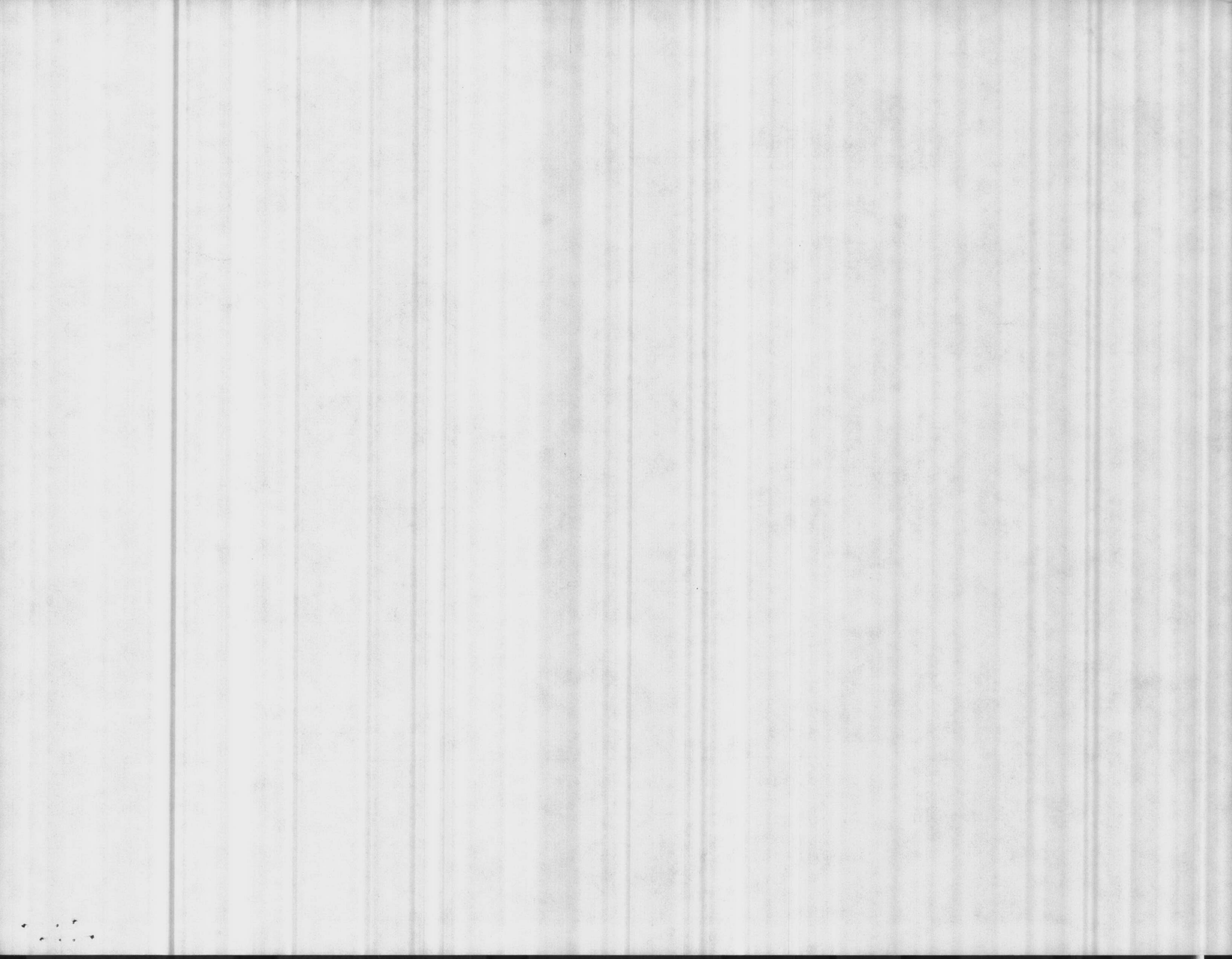












5000
MAIN

Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of May 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. Frazelle, W/WW, X5988
Typist: SP. Kolde, 3 Jun 87

5000
1411

Warren A. Pugh, Director
Division of Health Services
801 North 3rd Street
Raleigh, North Carolina 27603-2021

Dear Sir:

As requested, the attached forms concerning the operation of your water treatment facilities for the month of May 1987 are submitted. If we call or have further questions, please contact us at your earliest convenience.

Sincerely,

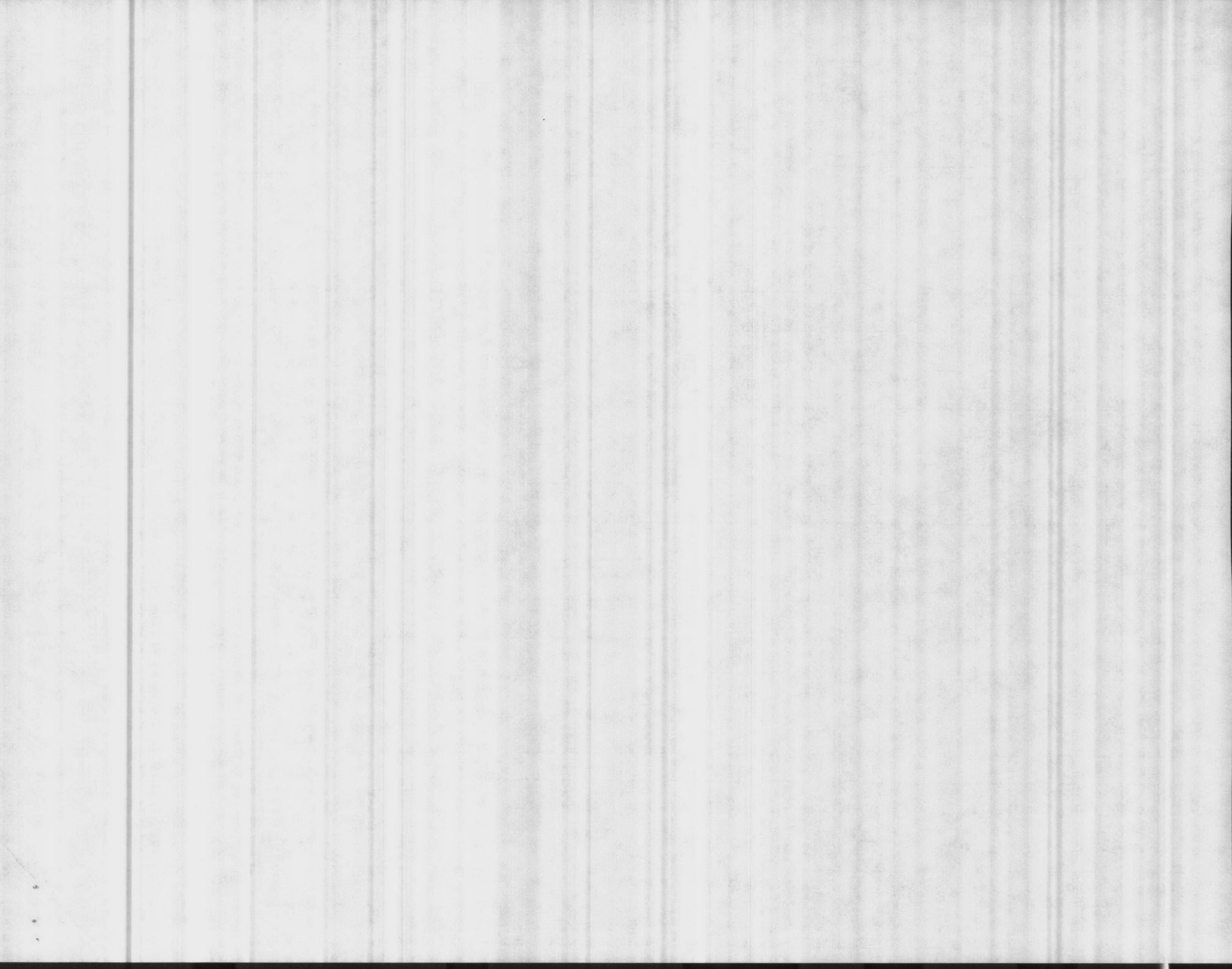
W. A. LILLY
Colonel, U. S. Marine Corps
Base Maintenance Officer
1st Division of Commanding General

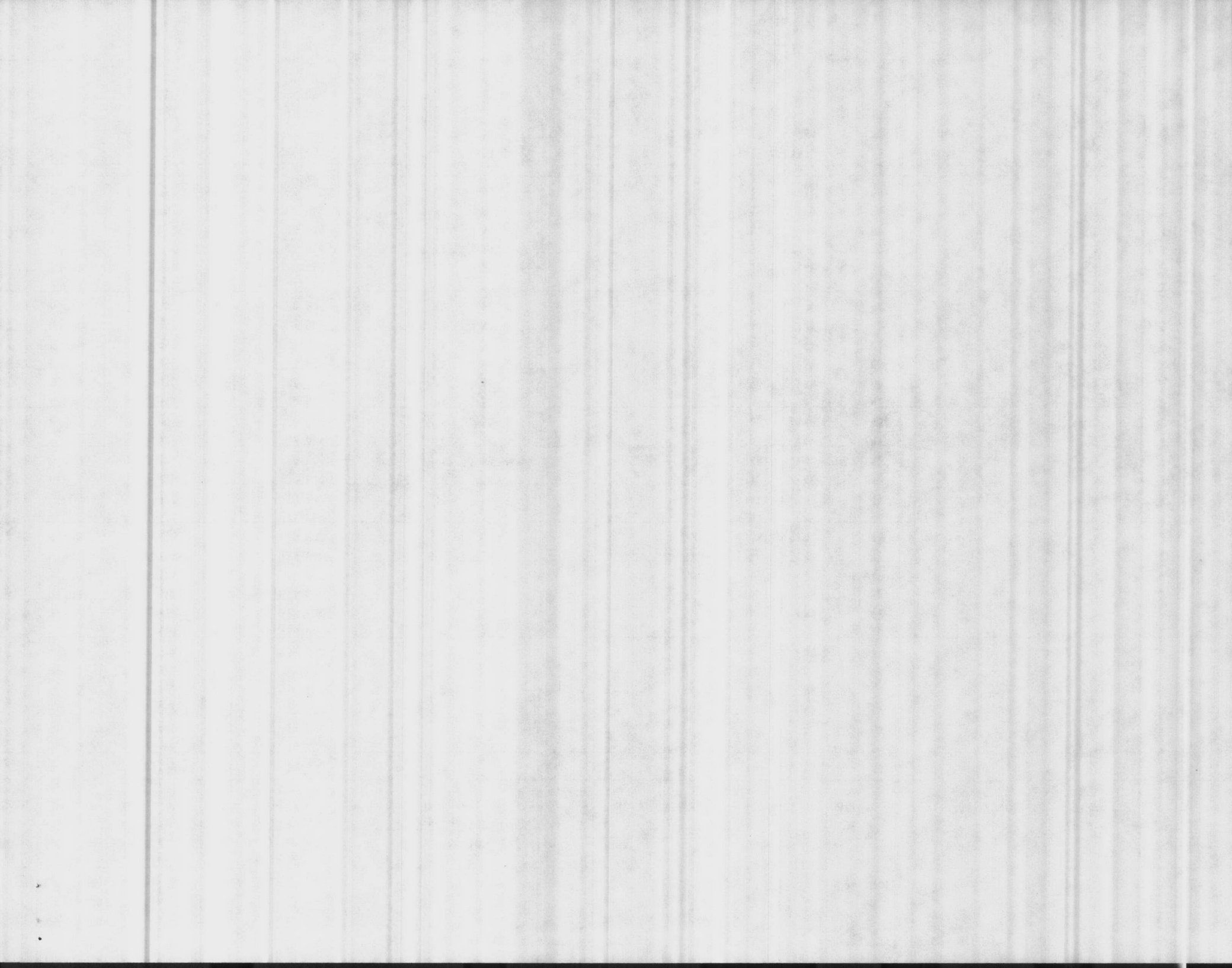
Enc: (1) Final Questionnaire Form

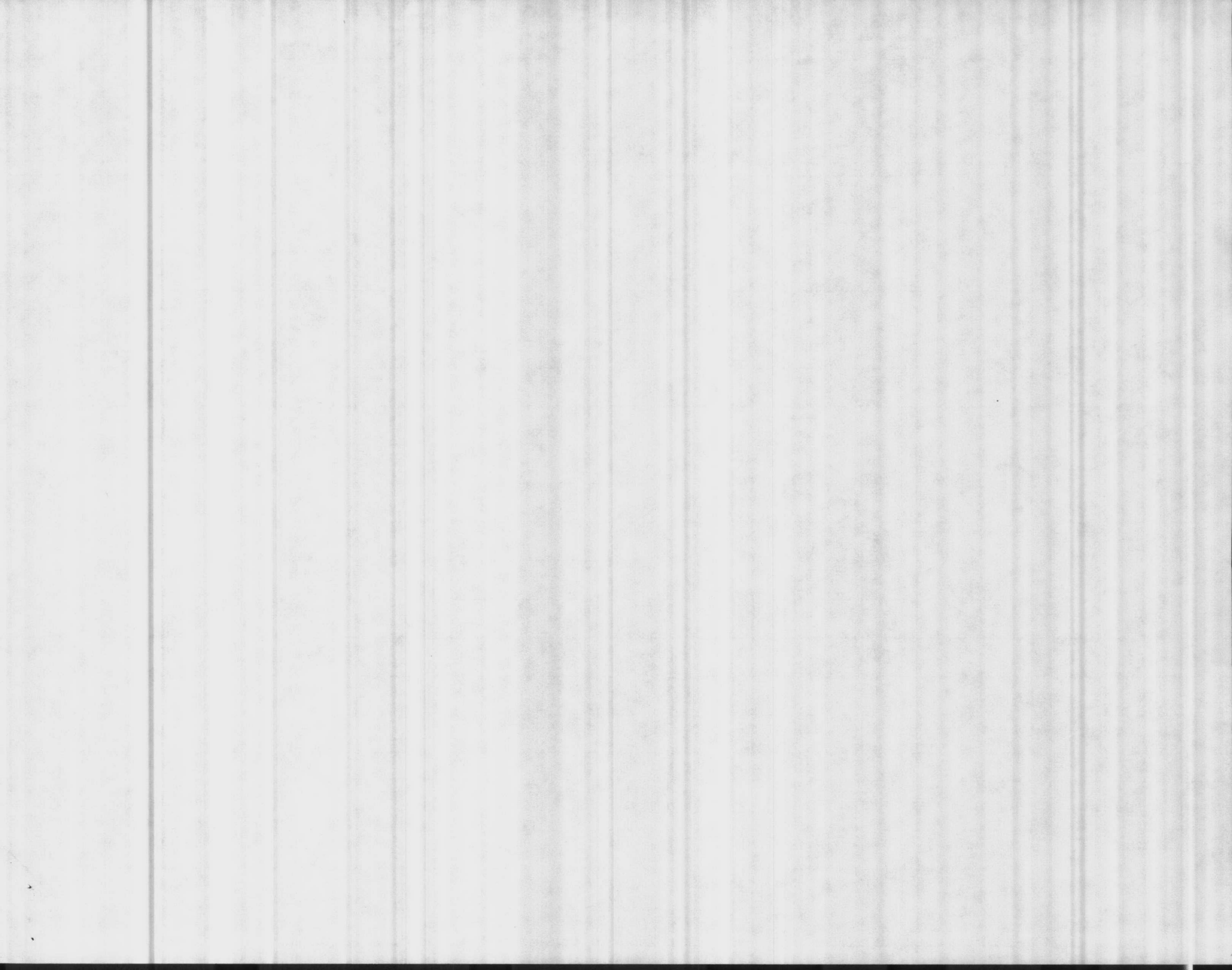
Walter B. Frazier, WAF, 4088
Tyndall Air Force Base, FL 32080

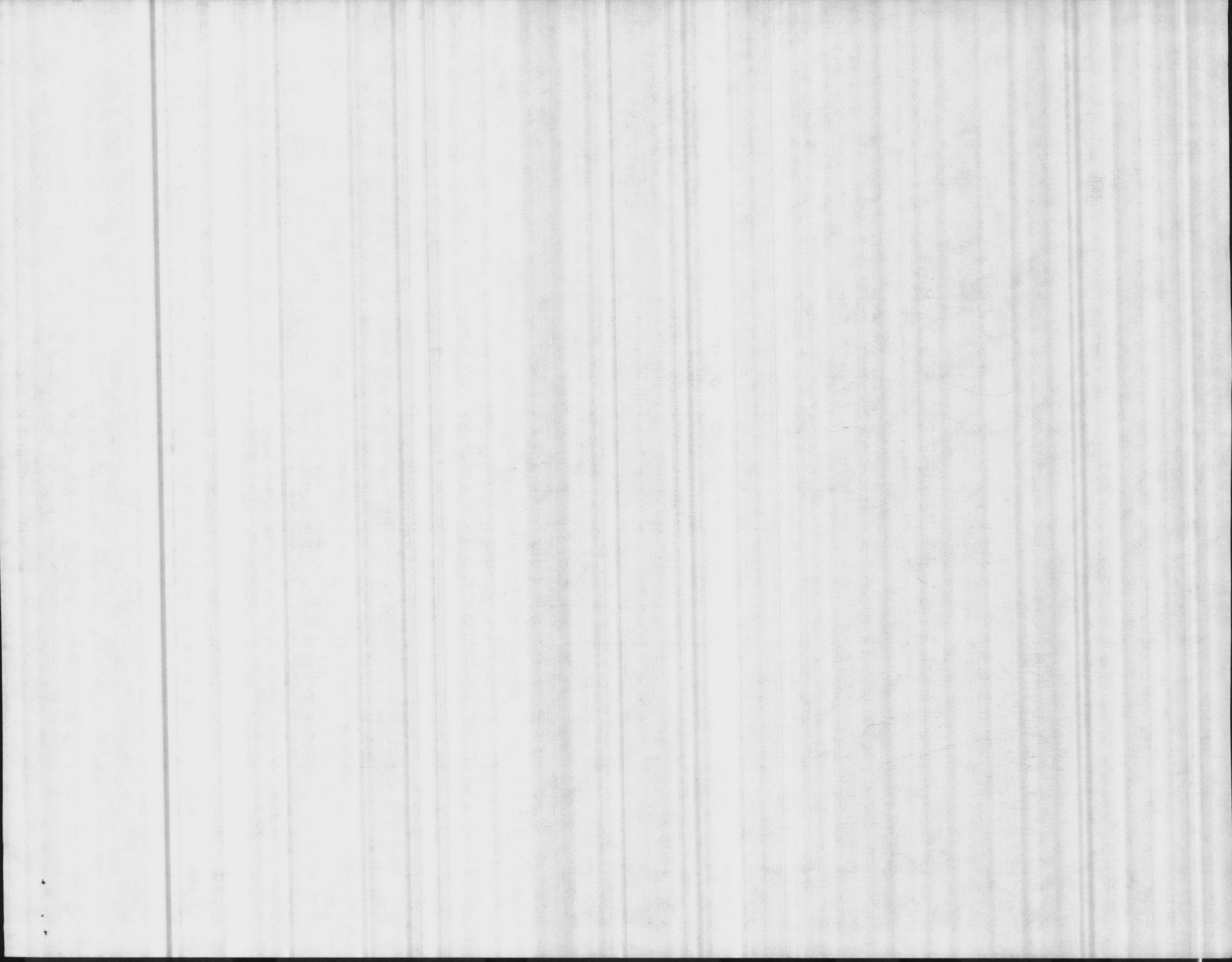












W.C. DEPARTMENT OF HUMAN RESOURCES -- DIVISION OF HEALTH SERVICES -- ENVIRONMENTAL HEALTH SERVICE

PUBLIC WATER SYSTEM FOR: WATLING CORP'S AIR-GILDON WATER PLANT

Residual (mg/l) Chlorine Residual (mg/l)

DATE	RAW (MGD)	RAW DELIVERED (MGD)	Hours Pumped	RAW Water Used (Gals)	TURBIDITY (NTU)	Chlorine Used (lbs)	Chlorine Residual (lbs)	RAW FINISH DELIVER (lbs)	RAW Softened DELIVER (lbs)	RAW Filtered DELIVER (lbs)	RAW Chlorine DELIVER (lbs)	Residual (mg/l)	Chlorine Residual (mg/l)
1	0.648	0.583	17.0	48,000	0.34	20	1987	3.4	100	94	500	0.7	0.70
2	0.800	0.584	15.0	150,000	0.81	48	1507	3.4	100	95	500	0.8	0.84
3	0.719	0.673	18.0	0	0.81	51	1664	3.4	100	97	500	0.8	0.81
4	0.889	0.841	16.0	80,000	0.58	50	1303	3.4	184	71	500	0.8	0.80
5	0.587	0.524	13.0	150,000	0.41	40	1439	3.4	100	60	500	0.7	0.80
6	0.603	0.548	12.0	0	0.52	46	1349	3.4	102	66	500	0.8	0.80
7	0.844	0.522	14.0	48,000	0.88	40	1588	3.4	102	69	500	0.8	0.88
8	0.838	0.658	18.0	80,000	1.03	49	1689	3.4	100	63	500	0.8	0.91
9	0.885	0.657	20.0	80,000	0.82	49	1709	3.4	104	97	500	0.8	0.82
10	0.785	0.702	19.0	80,000	0.50	50	1579	3.4	100	66	500	0.8	0.84
11	0.887	0.782	21.0	80,000	0.88	53	1693	3.4	108	63	500	0.8	0.88
12	0.848	0.824	17.0	80,000	0.58	49	1750	3.4	108	68	500	0.8	0.84
13	0.581	0.523	14.0	80,000	0.45	40	1507	3.4	102	64	500	0.8	0.88
14	0.538	0.477	16.0	80,000	0.81	40	1538	3.4	100	67	500	0.8	0.81
15	0.581	0.578	17.0	0	0.52	48	1634	3.4	108	74	500	0.8	0.82
16	0.618	0.590	17.0	0	0.88	48	1530	3.4	102	66	500	0.8	0.82
17	0.717	0.693	19.0	150,000	0.51	51	1722	3.4	100	62	500	0.8	0.80
18	0.580	0.534	12.0	48,000	0.76	47	1320	3.4	100	66	500	0.7	0.87
19	0.511	0.502	13.0	0	0.25	40	1519	3.4	100	64	500	0.8	0.82
20	0.581	0.534	12.0	80,000	0.44	47	1302	3.4	108	65	500	0.8	0.84
21	0.773	0.423	15.0	48,000	0.81	44	1157	3.4	108	66	500	0.8	0.78
22	0.523	0.531	18.0	80,000	1.62	48	1382	3.4	110	65	500	0.8	0.84
23	0.848	0.580	16.0	150,000	0.83	48	1460	3.4	100	68	500	0.8	0.88
24	0.548	0.515	16.0	80,000	0.88	40	1350	3.4	100	66	500	0.8	0.80
25	0.841	0.832	17.0	0	0.30	40	1539	3.4	102	69	500	0.8	0.82
26	0.591	0.553	16.0	150,000	0.41	48	1560	3.4	108	68	500	0.8	0.82
27	0.449	0.442	16.0	80,000	0.25	44	904	3.4	104	65	500	0.7	0.84
28	0.521	0.539	14.0	0	0.51	47	1112	3.4	180	67	500	0.8	0.88
29	0.521	0.548	18.0	80,000	0.39	43	1380	3.4	180	69	500	0.7	0.82
30	0.612	0.523	12.0	108,000	0.92	47	1324	3.4	184	67	500	0.8	0.82
TOTAL	18.374	16.980	485.2	1,880,000	17.38	231	43316	0.00000	1600	1043	3088	2549	22.91
AVG	0.615	0.558	16.1	36,000	0.58	48	1423	0.00000	184	68	500	0.8	0.82
MAX	0.887	0.822	21.0	150,000	1.03	53	1693	0.00000	108	69	500	0.8	0.88
MIN	0.500	0.400	12.0	0	0.25	40	904	0.00000	100	64	500	0.7	0.80

5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of September 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

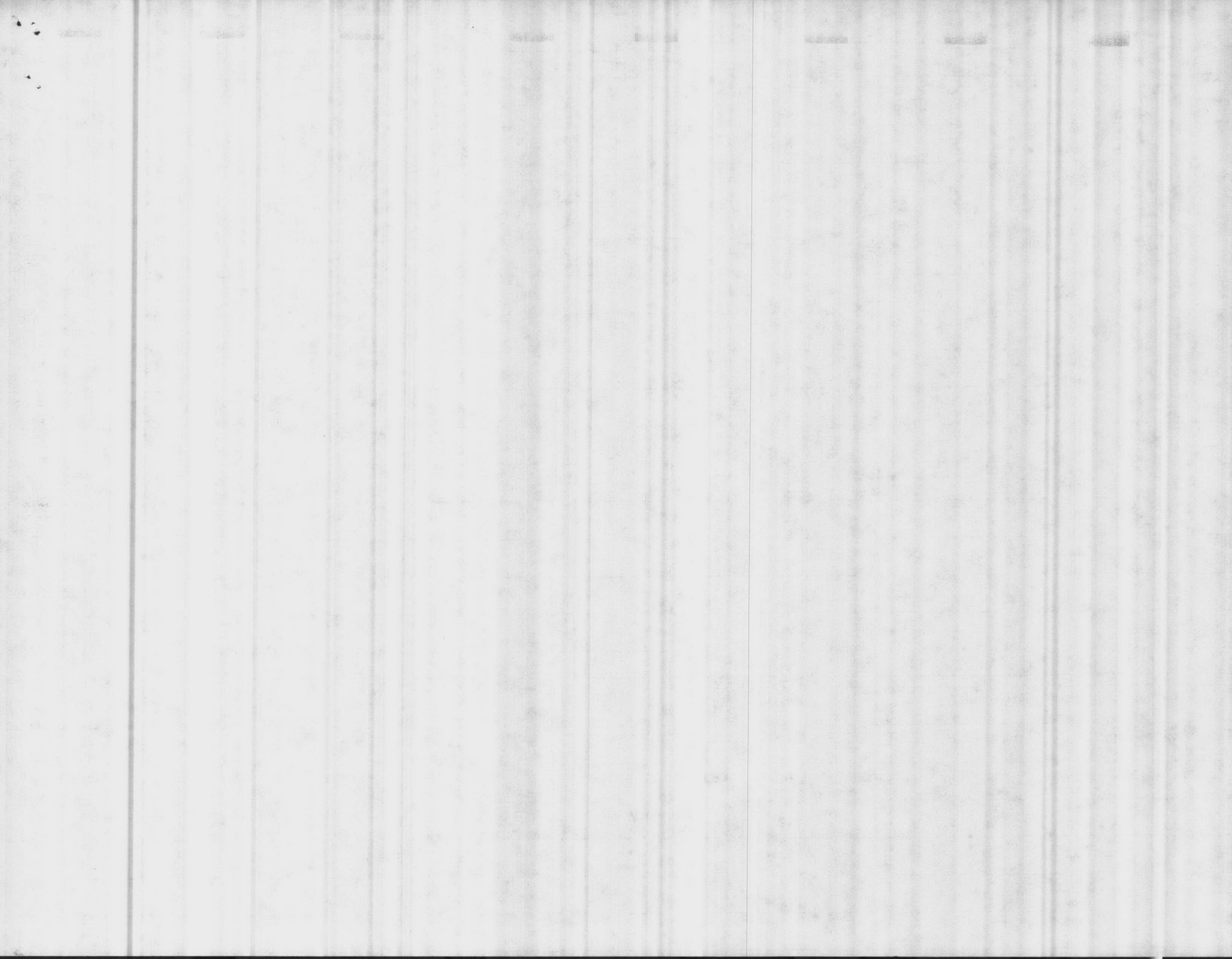
M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

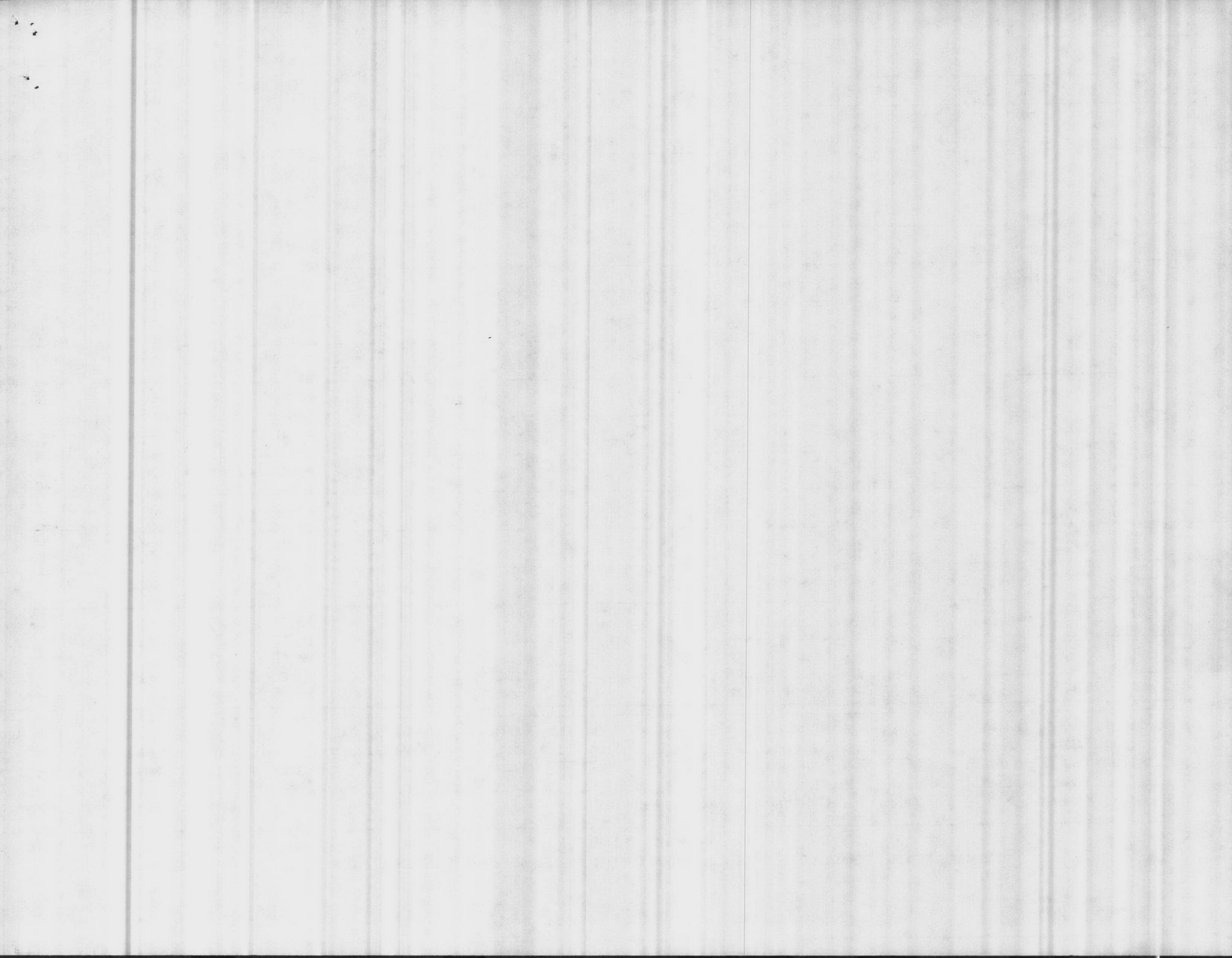
Encl:

(1) Plant Operations Forms

Writer: B. Frazelle, W/WW, X5988
Typist: S. Kolde, 1 Oct 87















5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of July 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operations Forms

Writer: B. Frazelle, W/WW, X5988
Typist: S. Kolde, 3 Aug 87

11/17

Rafael, South Carolina 29525-1001
Post Office Box 1001
Division of Health Services
Harris County, Texas

Dear Sir:

As requested, the attached forms containing the results of our water treatment facilities for the month of July 1987 are submitted. If you can be of any further assistance, please contact us at your earliest convenience.

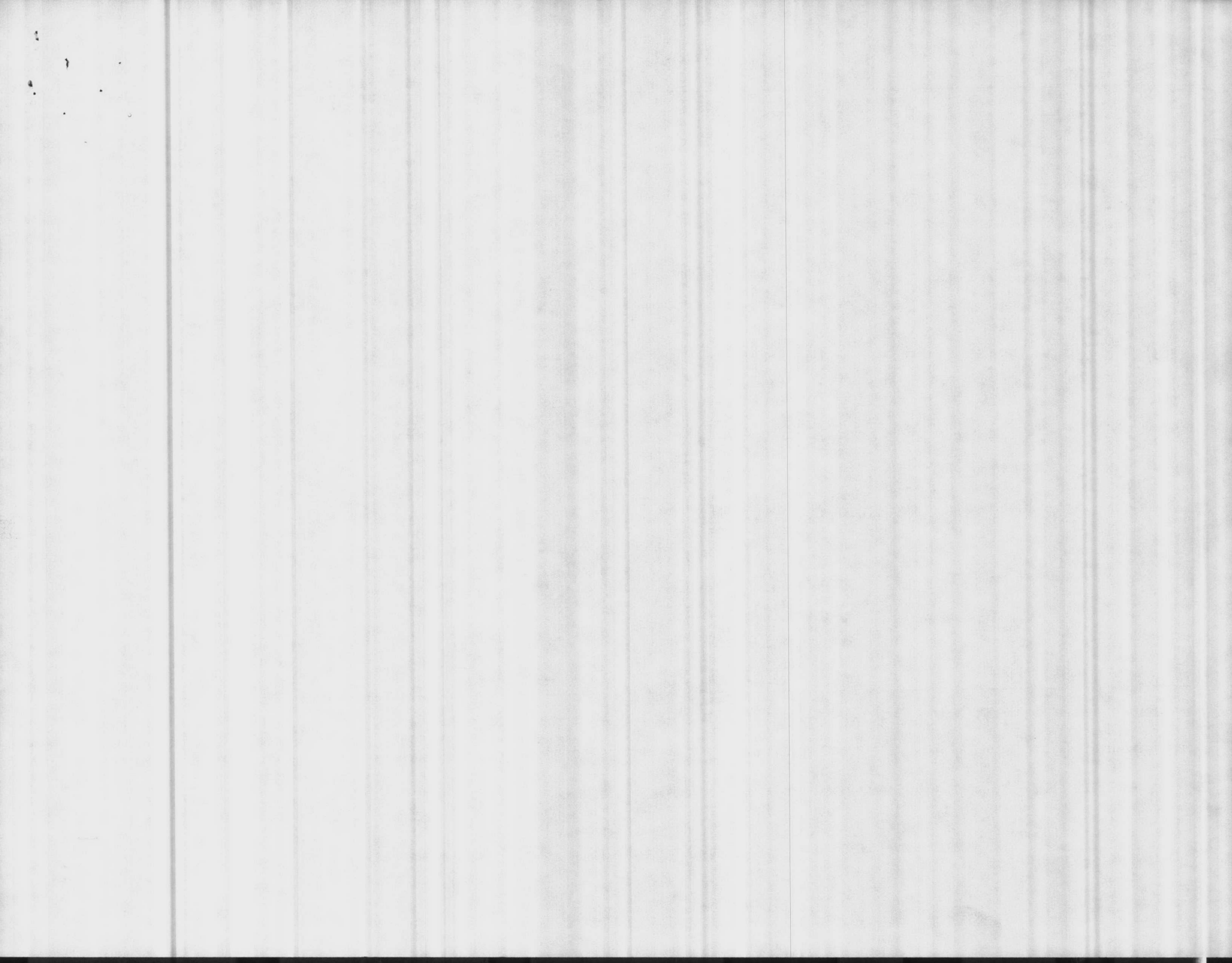
Sincerely,

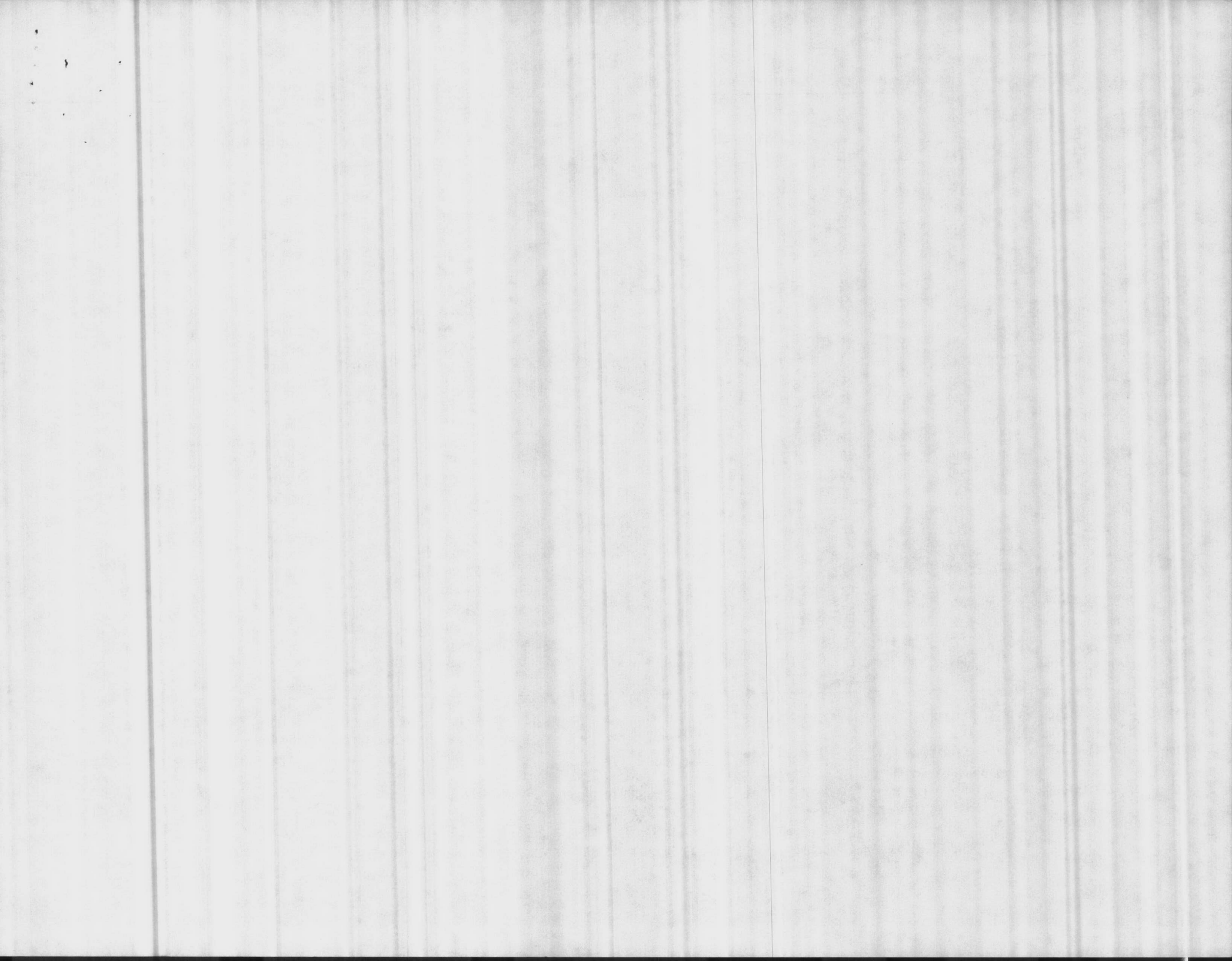
M. W. Miller
Colonel, USAF (Retired)
Assistant Director
Division of Environmental Control

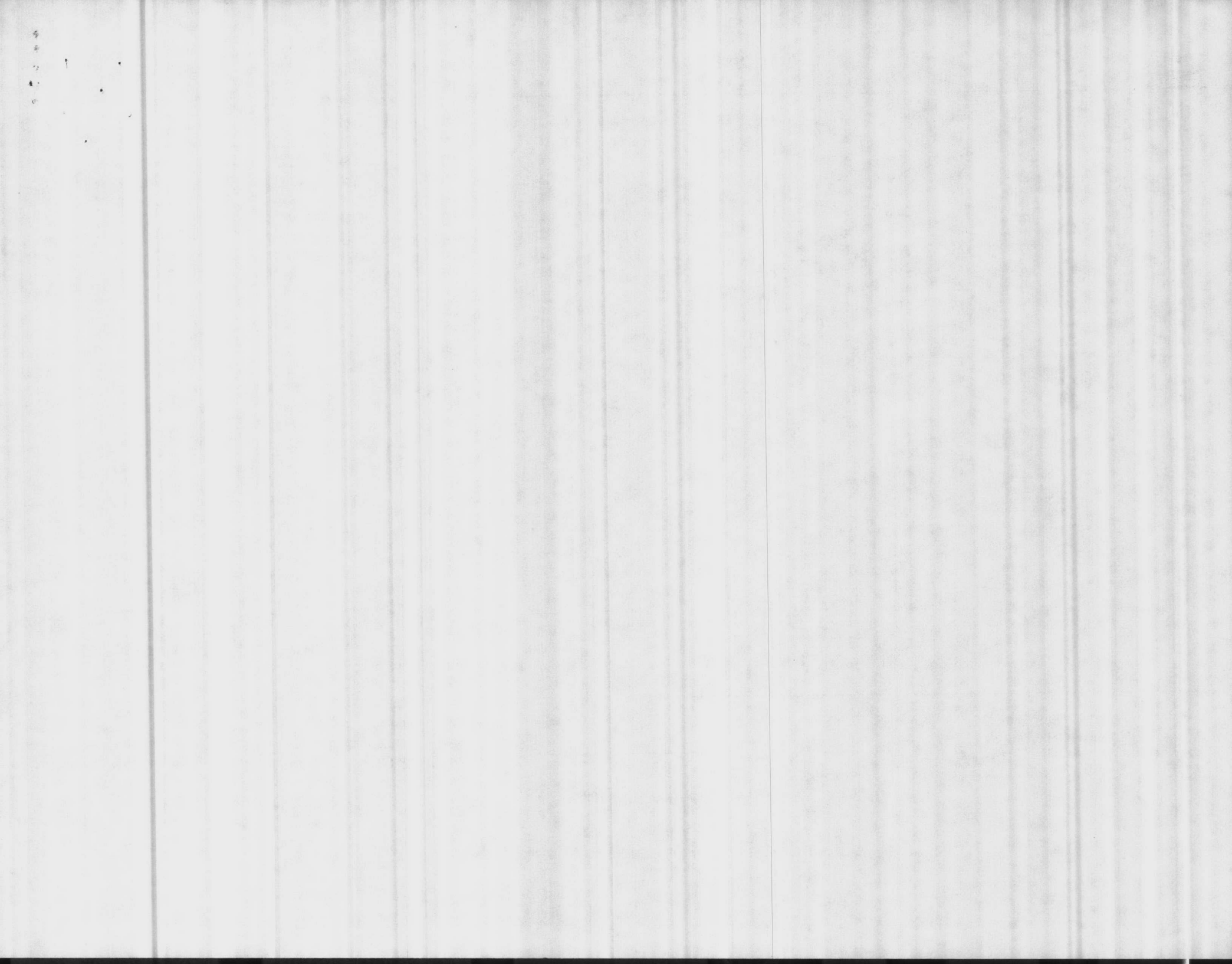
11/17
11/17

Writer: B. Frazelle, WNW, X5028
Typist: S. Kofke













5000
MAIN

Water Supply Branch
Division of Health Services
P.O. Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities for the month of August 1987 are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

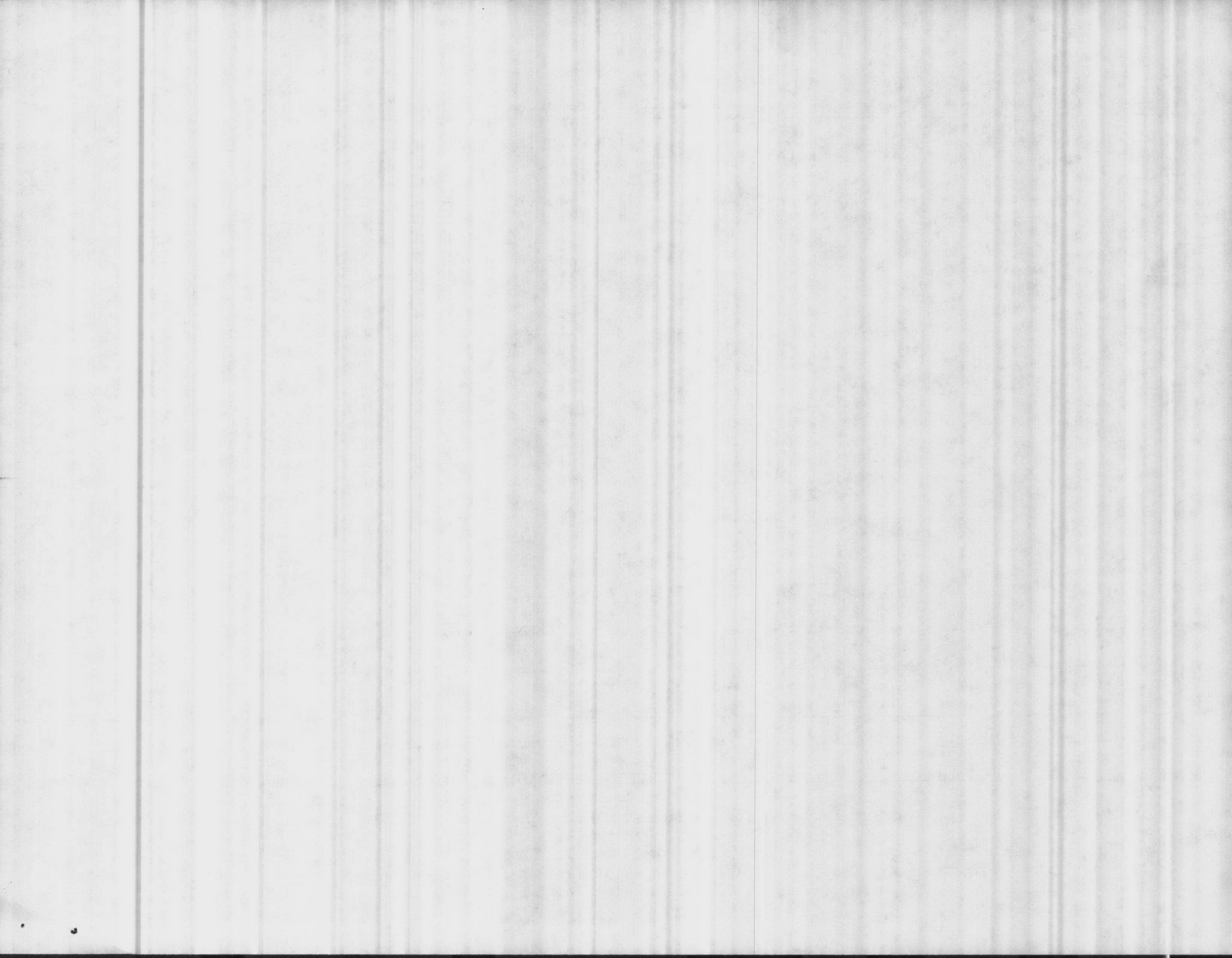
Sincerely,

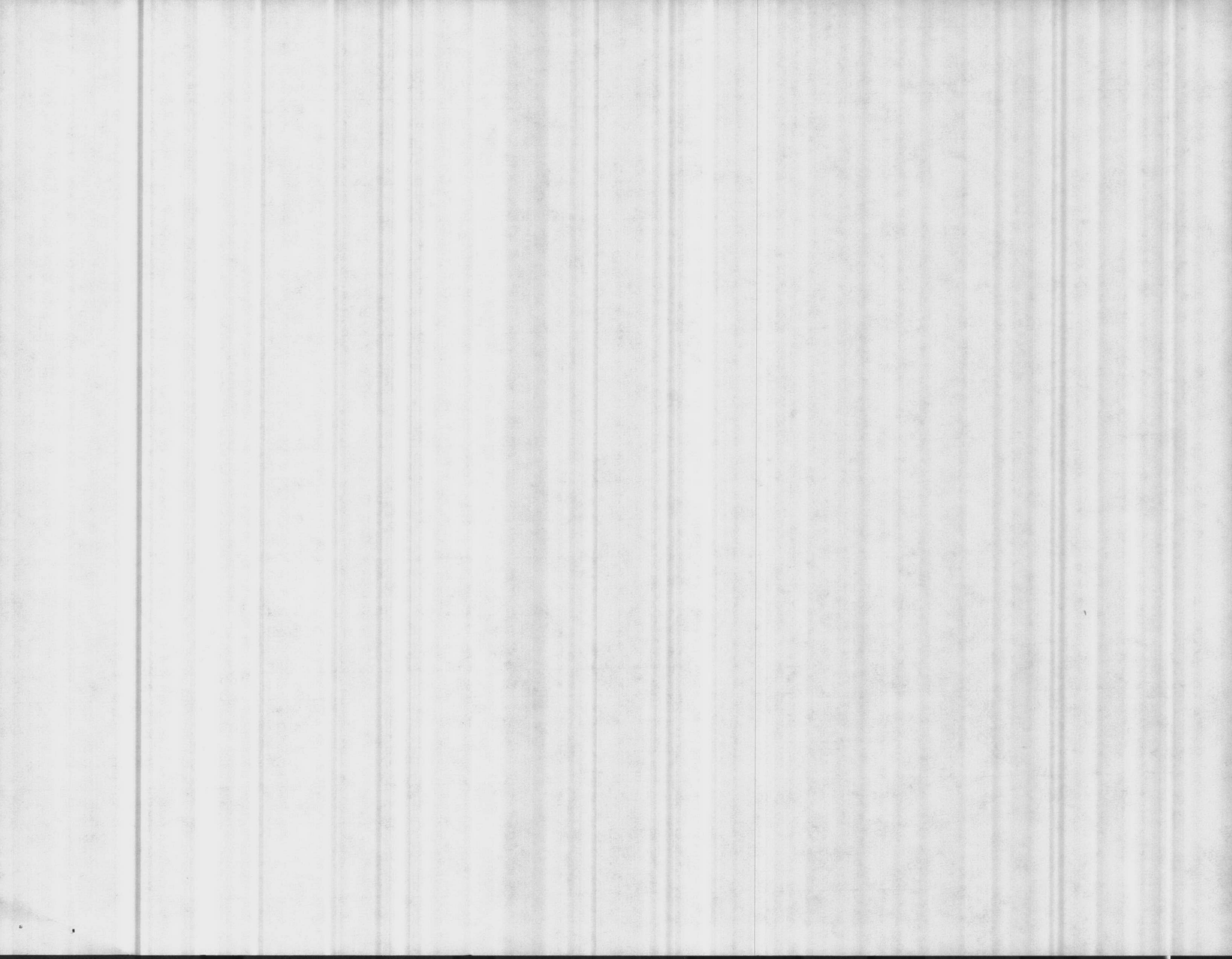
M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

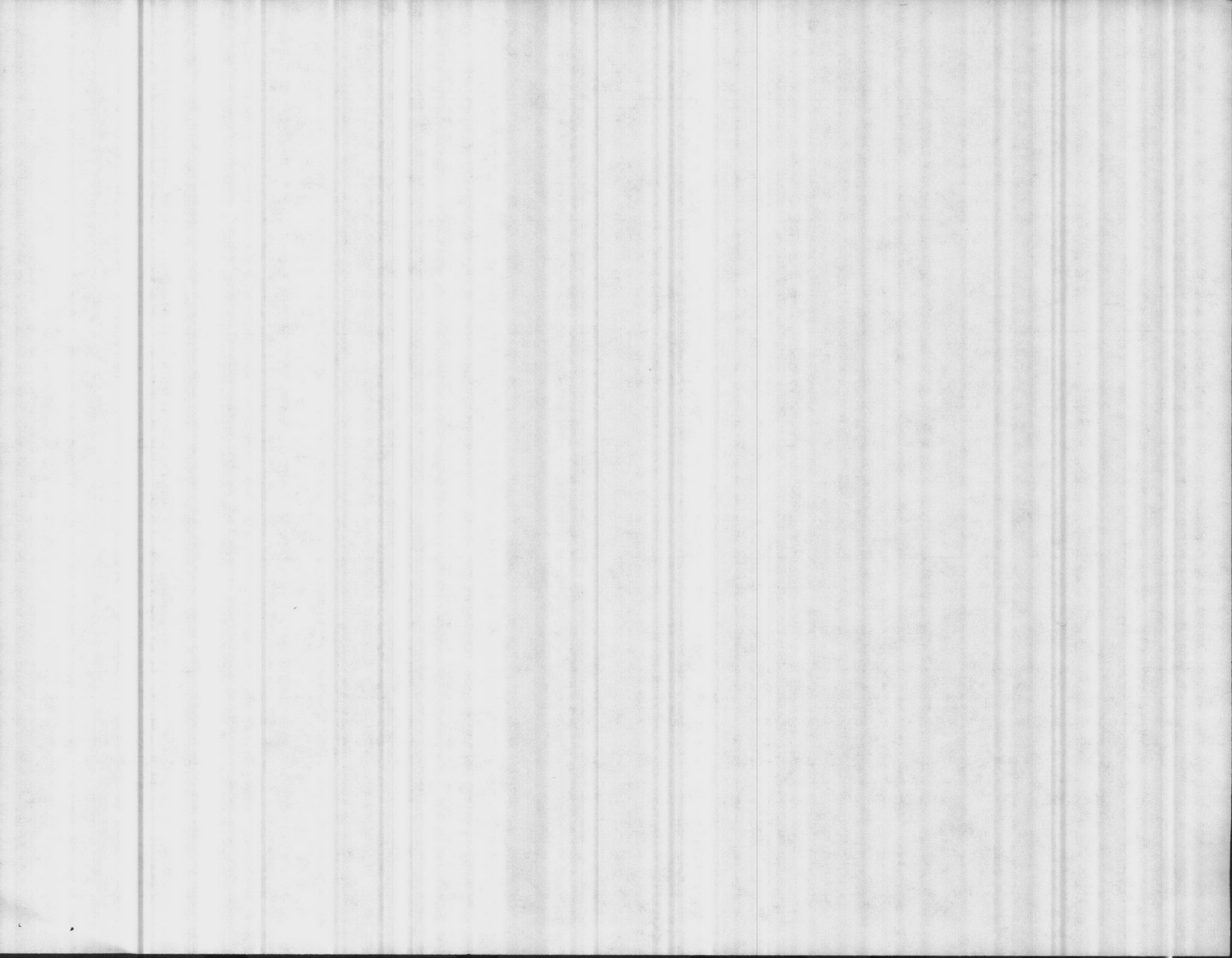
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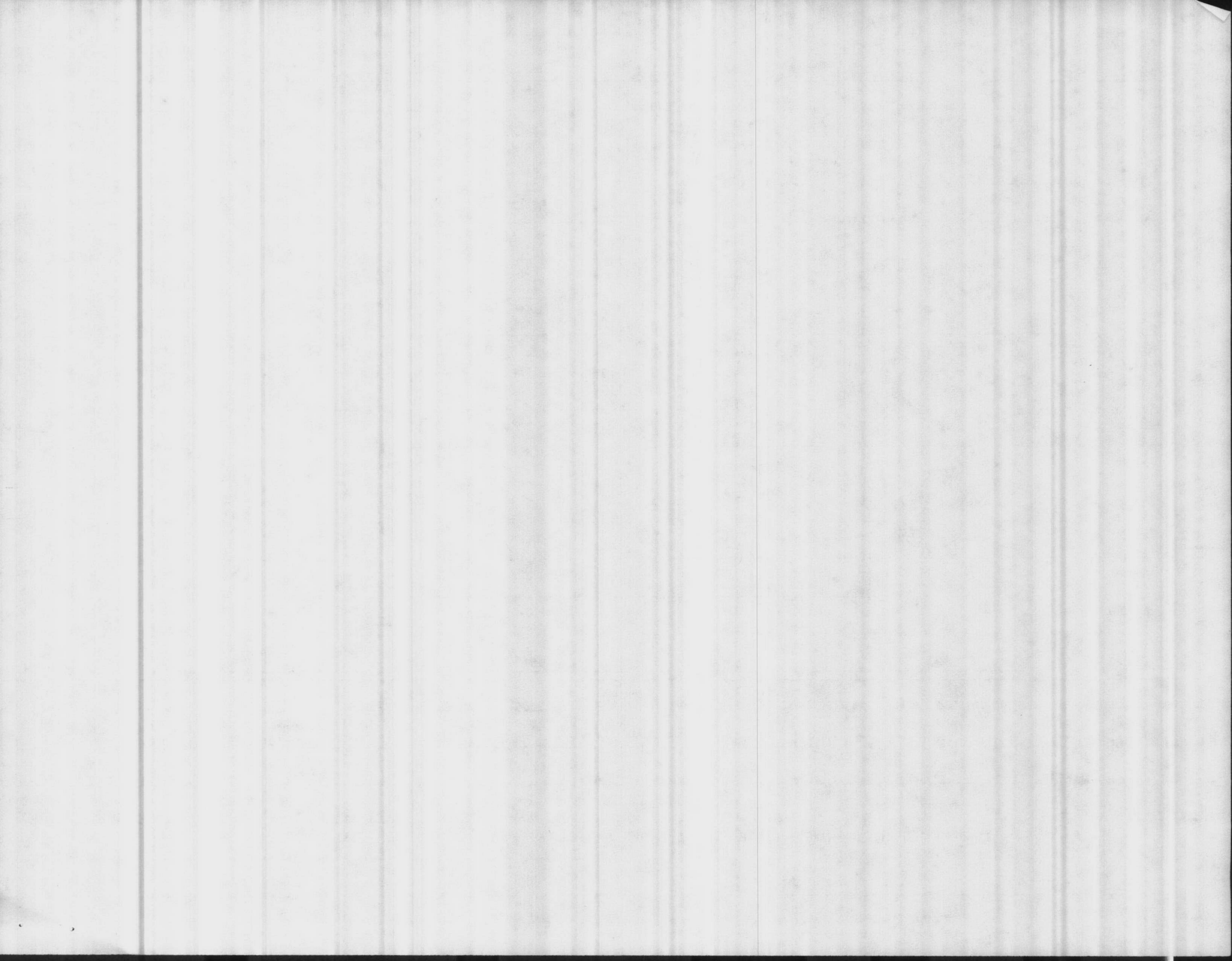
(1) Plant Operations Forms

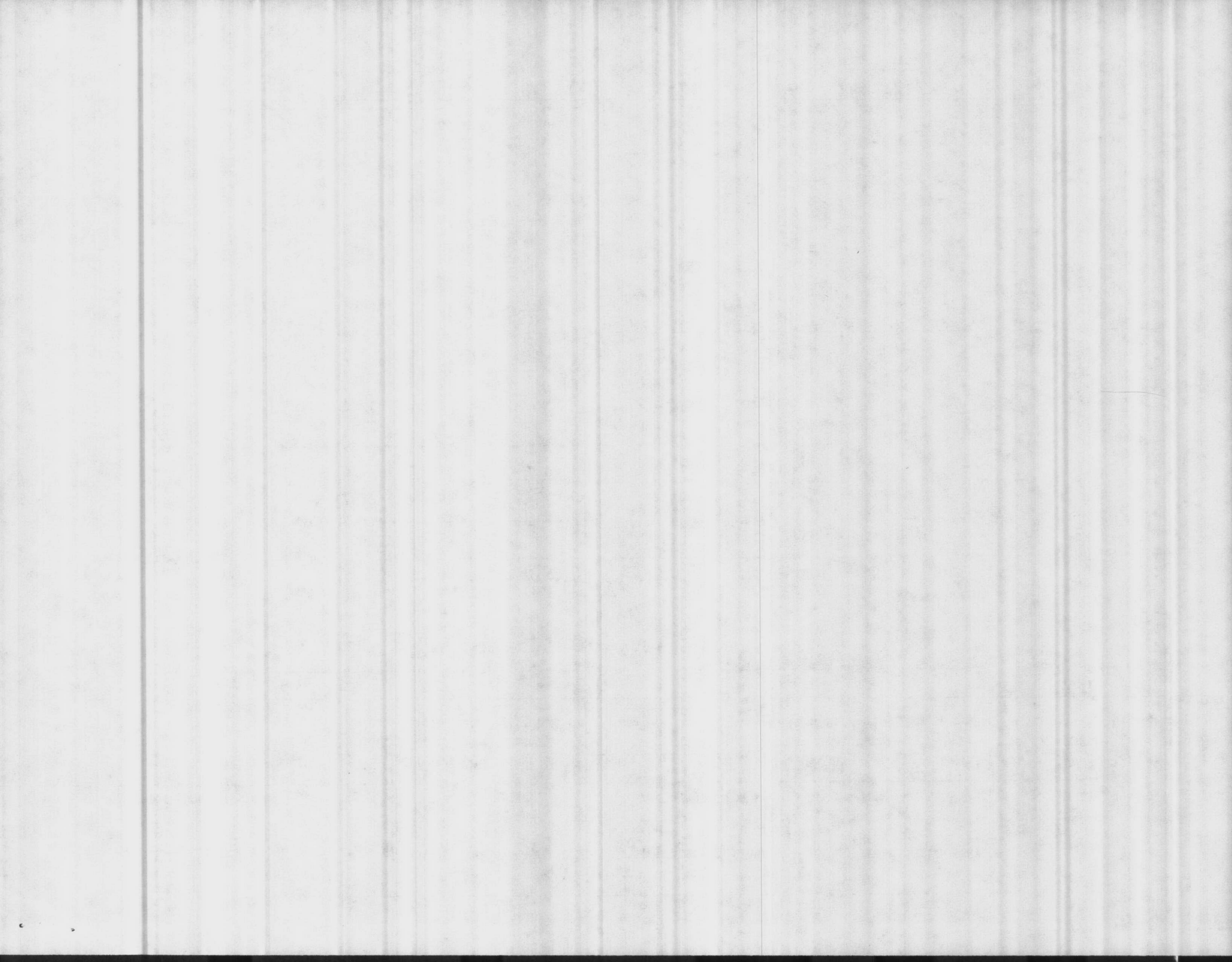
Writer: B. Frazelle, W/WW, X5988
Typist: S. Kolde, 2 Sept 87

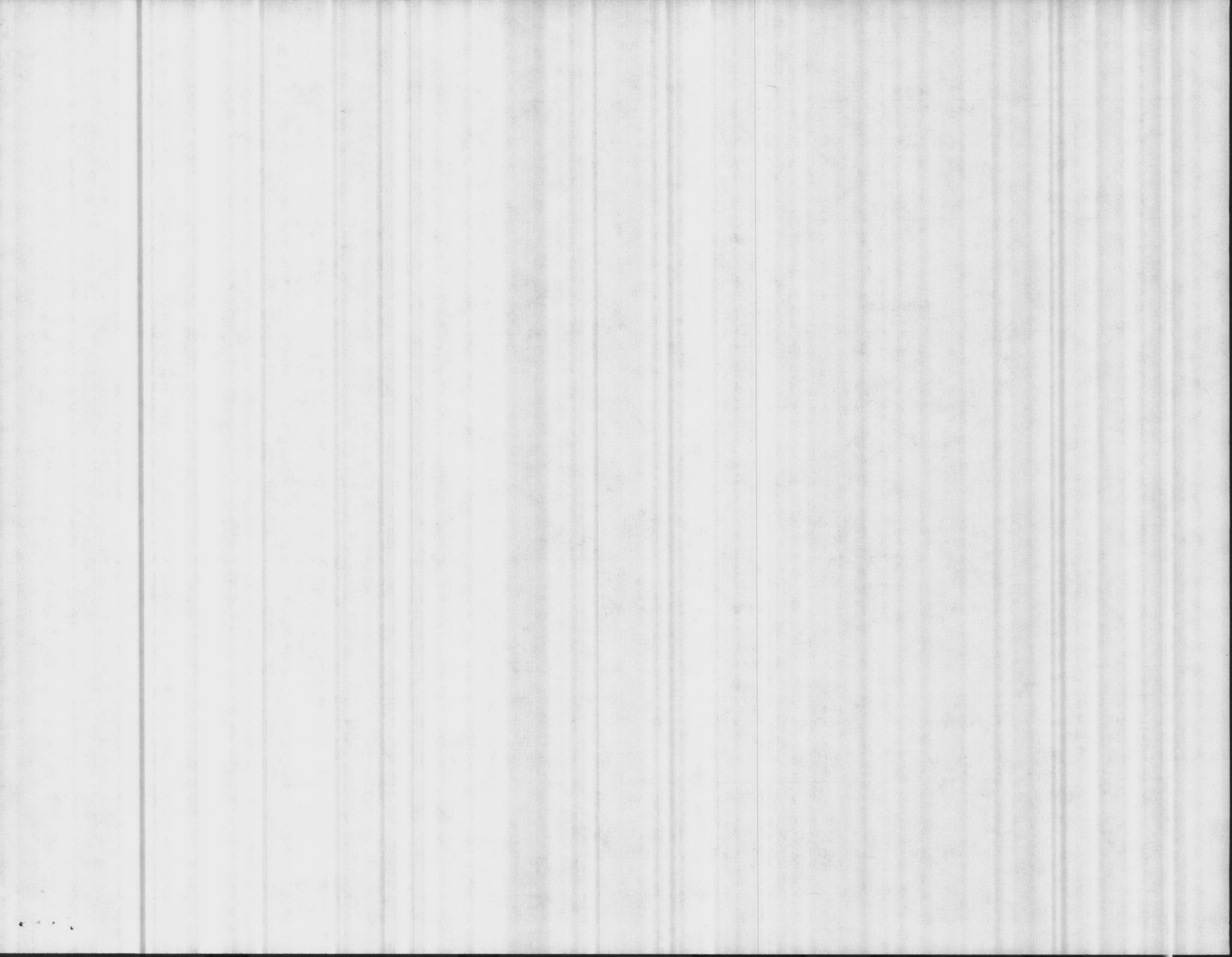












5000
MAIN

Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

As requested, the attached forms concerning the operation of our water treatment facilities are submitted.

If we can be of any further assistance, please contact us at your earliest convenience.

Sincerely,

M. G. LILLEY
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of Commanding General

Encl:
(1) Plant Operation Forms

Writer: B. M. Frazelle, Water, X1081
Typist: S. Kolde, 3 Dec 86

100-100000

Postal and Air Mail
Division of Postal Services
Post Office Box 2024
Washington, D.C. 20540

As requested, the attached forms concerning the operation of our water
treatment facilities are submitted.

If we can be of any further assistance, please contact us at your
earliest convenience.

Sincerely,

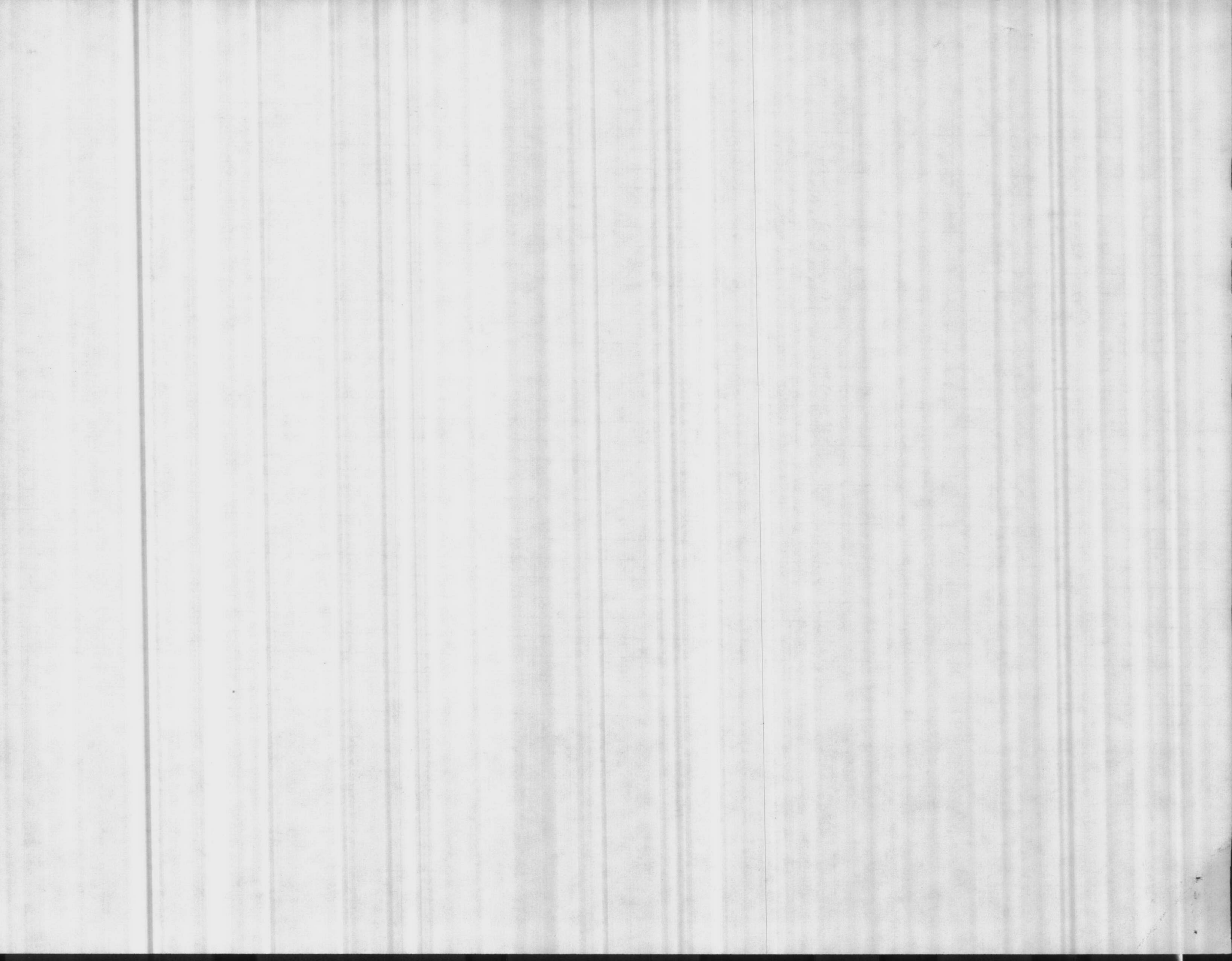
John J. Kelly
Colonel, U.S. Marine Corps
Commanding General
by direction of Commanding General

John J. Kelly
Colonel, U.S. Marine Corps

Written by: [illegible] Date: 1/10/61
Typed by: [illegible]

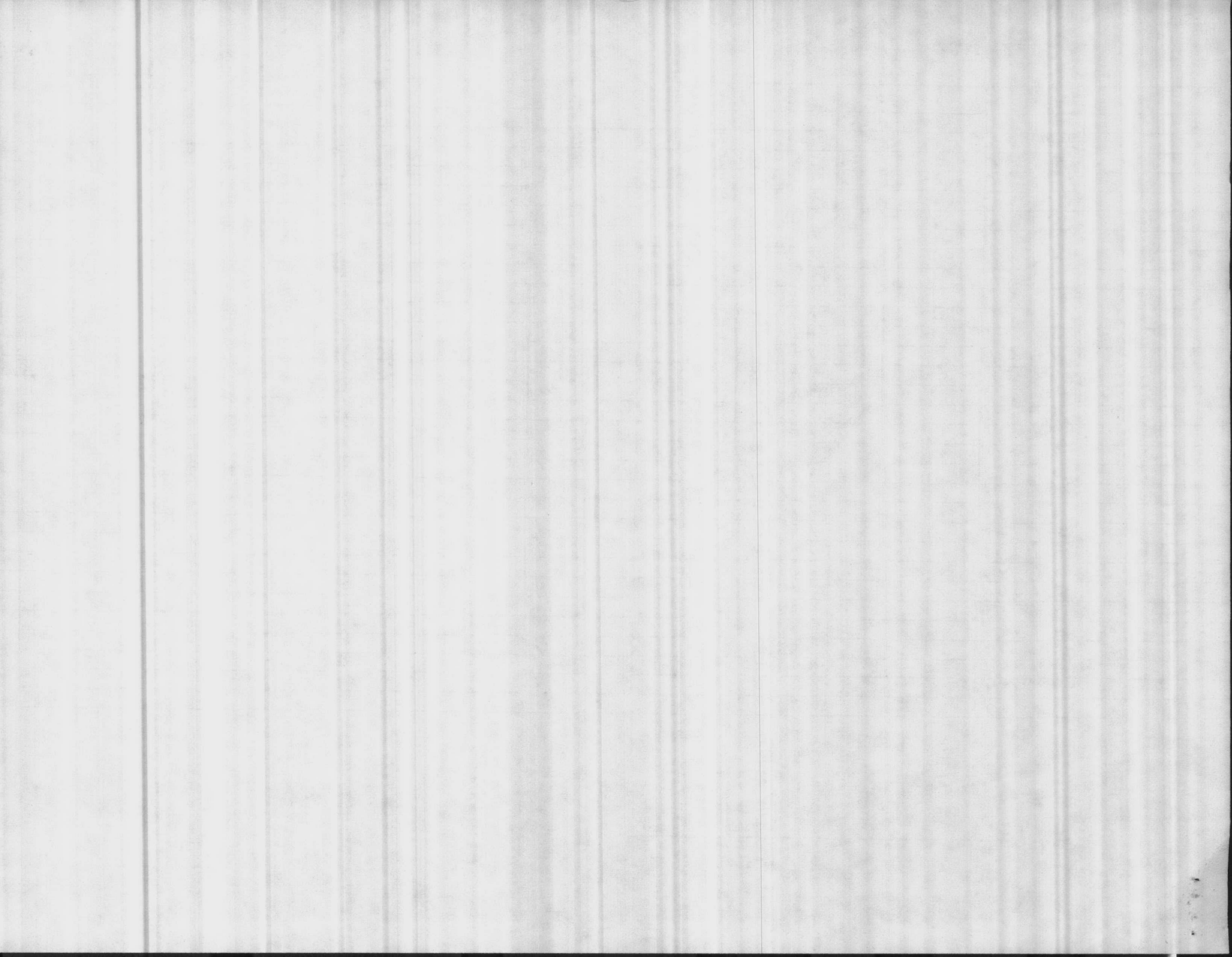
DATE	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
										RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	.044	9	7,000	-	-	-	-	-	-	-	-	180	52	54	-	-	-	1.4	1.5	-		
2	.057	8	7,000	-	-	-	-	-	-	-	-	170	44	50	-	-	-	1.8	1.5	-		
3	.145	10	6,800	-	-	-	-	-	-	-	-	180	44	50	-	-	-	1.8	1.5	-		
4	.062	8	7,000	-	-	-	-	-	-	-	-	180	54	50	-	-	-	1.3	2.0	-		
5	.058	10	9,000	-	-	-	-	-	-	-	-	180	50	50	-	-	-	1.3	1.2	-		
6	.073	19	2,000	-	-	-	-	-	3	-	-	180	50	50	-	-	-	1.8	1.8	-		
7	.060	8	2,000	-	-	-	-	-	2	-	-	180	48	48	-	-	-	1.5	1.8	-		
8	.066	9	9,000	-	-	-	-	-	3	-	-	180	46	50	-	-	-	1.8	1.6	-		
9	.064	8	9,000	-	-	-	-	-	4	-	-	180	48	50	-	-	-	1.2	1.3	-		
0	.058	10	9,000	-	-	-	-	-	4	-	-	180	44	50	-	-	-	1.8	1.5	-		
1	.086	9	7,000	-	-	-	-	-	3	-	-	180	50	46	-	-	-	1.5	1.9	-		
2	.084	10	7,000	-	-	-	-	-	3	-	-	180	50	48	-	-	-	1.4	1.7	-		
3	.1080	15	7,000	-	-	-	-	-	4	-	-	180	46	46	-	-	-	1.4	1.6	-		
4	.1084	12	7,000	-	-	-	-	-	2	-	-	180	48	46	-	-	-	1.2	1.1	-		
5	.090	13	9,000	-	-	-	-	-	5	-	-	180	48	46	-	-	-	1.3	2.0	-		
6	.082	10	7,000	-	-	-	-	-	3	-	-	200	48	46	-	-	-	1.4	1.9	-		
7	.094	4	9,000	-	-	-	-	-	3	-	-	180	48	46	-	-	-	1.4	1.7	-		
8	.083	9	7,000	-	-	-	-	-	2	-	-	180	46	48	-	-	-	1.4	1.7	-		
9	.087	11	9,000	-	-	-	-	-	3	-	-	184	48	50	-	-	-	1.5	1.8	-		
20	.094	10	7,000	-	-	-	-	-	3	-	-	180	48	52	-	-	-	1.5	1.8	-		
21	.081	8	7,000	-	-	-	-	-	3	-	-	180	48	50	-	-	-	1.4	1.6	-		
22	.088	10	7,000	-	-	-	-	-	4	-	-	180	48	50	-	-	-	1.6	1.4	-		
23	.089	10	7,000	-	-	-	-	-	5	-	-	180	48	50	-	-	-	1.6	1.5	-		
24	.097	8	7,000	-	-	-	-	-	5	-	-	180	48	52	-	-	-	1.5	1.3	-		
25	.092	7	7,000	-	-	-	-	-	5	-	-	170	48	50	-	-	-	1.5	1.4	-		
26	.097	7	6,000	-	-	-	-	-	5	-	-	180	58	56	-	-	-	1.0	1.4	-		
27	.085	12	7,000	-	-	-	-	-	10	-	-	180	56	58	-	-	-	2.0	1.2	-		
28	.100	10	7,000	-	-	-	-	-	15	-	-	180	50	56	-	-	-	1.8	1.4	-		
29	.093	9	7,000	-	-	-	-	-	5	-	-	180	50	54	-	-	-	1.8	1.4	-		
30	.083	7	7,000	-	-	-	-	-	5	-	-	185	50	54	-	-	-	1.6	1.4	-		
31																						
TOT	2.365	302	222,000						105													
AVG	.078	10	7400																			
MAX	.100	19	9,000																			

SIGNED K. J. [Signature]
 CERTIFICATION: GRADE A M. 1201



TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
								RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
.633	16	35,200	50	50			19			190	62	68				1.4	1.3			
.564	13	33,000		NA			16			190	58	60				1.4	1.4			
.600	15	35,200		50			17			190	64	64				1.5	1.4			
.681	19	35,200		50			16			190	66	66				1.4	1.4			
.621	17	35,200		50			21			190	58	58				1.4	1.4			
.603	15	30,800		50			11			190	66	60				1.5	1.5			
.640	19	35,000		50			19			190	50	50				1.5	1.5			
.563	15	35,000		50			14			190	50	50				1.3	1.4			
.561	15	30,800		50			11			190	44	44				1.3	1.3			
.491	15	23,000		50			12			196	44	44				1.5	1.5			
.520	18	35,200		50			11			186	42	46				1.5	1.5			
.562	16	35,200		50			10			188	44	46				1.5	1.5			
.624	17	33,000		50			15			184	46	48				1.5	1.5			
.585	18	35,200		50			14			188	46	50				1.3	1.4			
.501	13	33,000		50			9			186	46	48				1.3	1.3			
.548	14	33,000		50			8			160	44	46				1.3	1.4			
.491	15	35,200		50			16			170	44	46				1.2	1.3			
.711	19	35,200		50			23			180	44	46				1.5	1.4			
.527	14	35,200		50			22			170	46	48				1.5	1.4			
.740	19	35,200		NA			16			185	48	44				1.4	1.4			
.662	19	35,200		50			15			180	42	44				1.5	1.4			
.701	20	33,000		50			7			180	46	46				1.4	1.4			
.621	17	33,000		50			15			180	46	48				1.5	1.4			
.663	19	35,200		NA			15			200	48	50				1.4	1.4			
.704	22	32,400		50			22			190	50	54				1.5	1.4			
.681	20	35,200		50			18			196	58	62				1.5	1.4			
.645	16	30,800		50			16			190	60	58				1.4	1.4			
.603	18	35,200		50			14			190	58	56				1.4	1.3			
.600	17	33,000		50			12			194	50	52				1.5	1.5			
.639	16	33,000		50			12			192	50	50				1.5	1.5			
TOT	18.287	504,024,800		1350			446													
AVG	.609	16,834,160																		

SIGNED Buttrick
 CERTIFICATION: GRADE A NO. 1201



TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	FINISHED		DELIVERED		PLANT		FLUORIDE DELIVERED	REMARKS
								RAW	RAW	RAW	FILTER	DELIVERED	DELIVERED		
0.146	13	8,200	/	50	/	/	5	/	176	50	60	/	1.1	1.0	/
0.167	11	8,200	/	50	/	/	5	/	182	52	60	/	1.1	1.0	/
0.186	12	8,200	/	50	/	/	5	/	178	52	59	/	1.1	1.0	/
0.185	13	8,200	/	50	/	/	5	/	184	52	58	/	1.1	1.0	/
0.202	13	10,400	/	50	/	/	5	/	188	54	64	/	1.1	1.0	/
0.184	13	8,200	/	50	/	/	6	/	186	50	58	/	1.1	1.0	/
0.141	13	8,200	/	50	/	/	5	/	174	52	58	/	1.1	1.0	/
0.159	13	8,200	/	50	/	/	5	/	176	52	60	/	1.1	1.0	/
0.181	13	8,200	/	50	/	/	5	/	178	52	60	/	1.1	1.0	/
0.168	13	8,200	/	50	/	/	7	/	174	52	54	/	1.1	1.0	/
0.172	13	8,200	/	50	/	/	5	/	178	52	58	/	1.1	1.0	/
0.158	13	8,200	/	50	/	/	5	/	178	50	60	/	1.1	1.0	/
0.177	14	8,200	/	50	/	/	5	/	178	50	58	/	1.1	1.1	/
0.180	13 1/2	8,200	/	50	/	/	6	/	190	50	56	/	1.0	1.1	/
0.165	9 3/4	8,200	/	50	/	/	5	/	180	52	58	/	1.2	1.3	/
0.159	14	8,200	/	50	/	/	5	/	179	53	56	/	1.12	1.12	/
0.151	13	8,200	/	50	/	/	5	/	176	54	56	/	1.1	1.13	/
0.209	10	8,200	/	50	/	/	6	/	174	54	58	/	1.12	1.13	/
0.169	15	8,200	/	50	/	/	6	/	190	54	54	/	1.13	1.13	/
0.211	12	8,200	/	50	/	/	6	/	178	53	57	/	1.12	1.13	/
0.161	10	8,200	/	50	/	/	5	/	178	50	58	/	1.1	1.0	/
0.175	12	8,200	/	50	/	/	7	/	/	54	56	/	1.2	1.0	/
0.171	11	8,200	/	50	/	/	6	/	178	54	58	/	1.1	1.0	/
0.161	11	8,200	/	50	/	/	5	/	180	54	52	/	1.0	1.0	/
0.171	10	8,200	/	50	/	/	3	/	178	52	57	/	1.0	1.0	/
0.161	10	8,200	/	50	/	/	5	/	178	52	52	/	1.0	1.0	/
0.172	10	8,200	/	50	/	/	5	/	180	50	52	/	1.0	1.1	/
0.155	12	8,200	/	50	/	/	5	/	179	54	53	/	1.1	1.0	/
0.159	10	8,200	/	50	/	/	5	/	176	50	52	/	1.1	1.0	/
0.178	12	8,200	/	50	/	/	6	/	176	50	58	/	1.1	1.0	/
OT	5.793	361	248,200	1500	/	/	162	/	/	/	/	/	/	/	/
VG	0.193	12	8,275	/	/	/	/	/	/	/	/	/	/	/	/
AX	0.311	15	10,400	/	/	/	/	/	/	/	/	/	/	/	/

SIGNED B. Brazill
 CERTIFICATION GRADE A NO. 1201

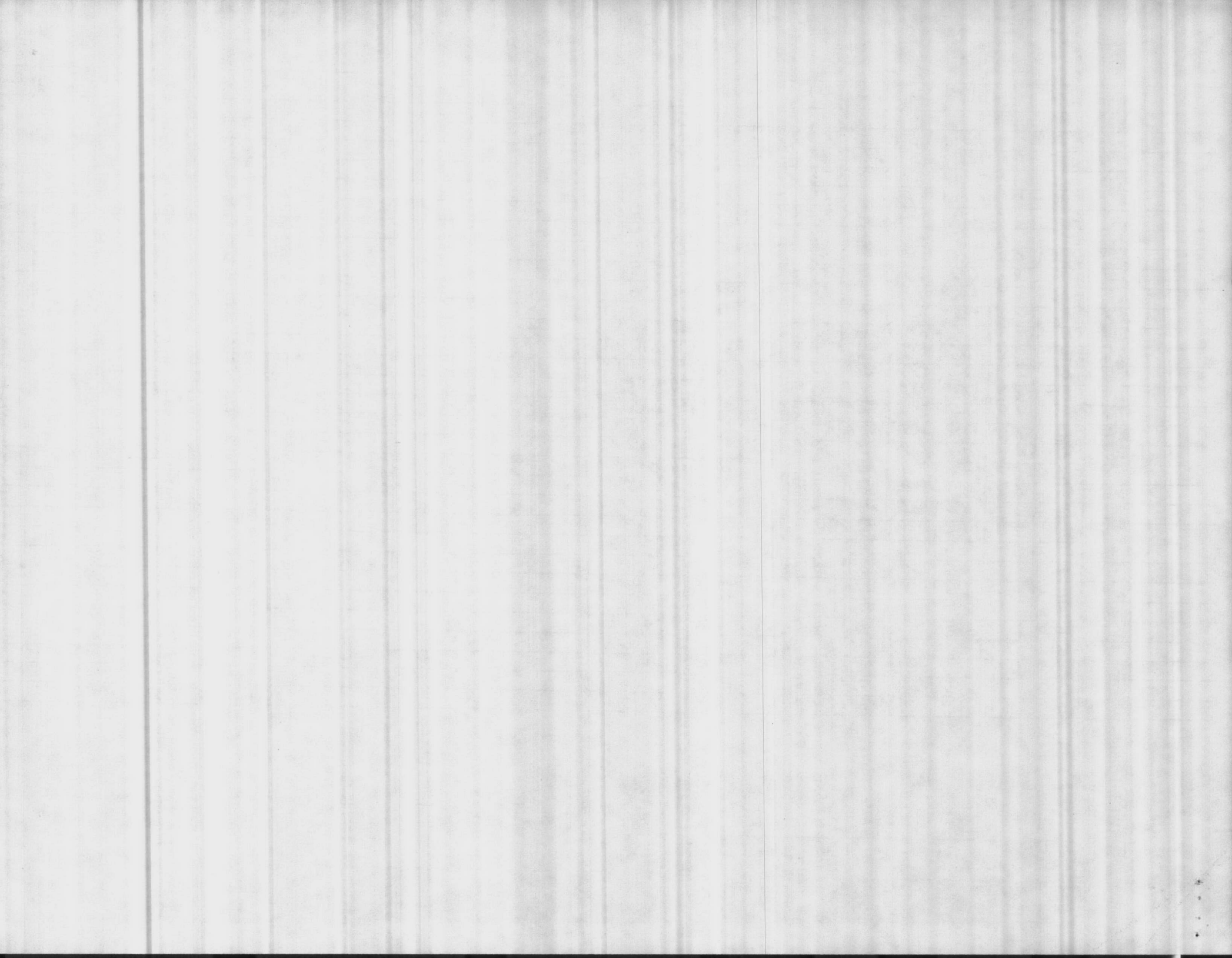


	TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)			ALK (mg/l)			CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED	PLANT	DELIVERED			
1	.897	16	35,100	.27		1.4			7.6	8.9	176	57	69	174	55	65	1.1	0.9	1.00		
2	1.066	18	35,100	.21					7.6	8.9	174	60	58	175	60	56	1.1	0.9	1.01		
3	1.034	19	35,100	.19					7.6	8.9	180	59	60	178	62	62	1.0	0.8	1.05		
4	1.047	19	35,100	.29					7.7	8.8	178	58	60	174	61	58	1.0	0.9	1.08		
5	1.036	19	35,100	.17					7.6	8.8	172	52	58	176	59	58	0.9	0.9	1.05		
6	1.089	18	35,100	.19					7.7	8.8	182	61	50	180	53	53	1.0	0.8	.95		
7	1.126	21	35,100						7.6	8.8	176	67	60	176	66	57	0.9	0.9	.91		
8	.933	16	35,100						7.6	8.9	176	60	56	178	62	56	0.8	0.8	.98		
9	1.079	14	35,100						7.4	8.9	194	54	62	184	56	59	1.1	0.8	.96		
10	1.193	17	35,100						7.5	8.8	180	55	63	186	61	59	1.2	1.0	.86		
11	1.234	18	35,100						7.6	8.9	186	62	64	184	58	61	1.2	1.0	.76		
12	.997	17	35,100						7.6	8.9	186	66	61	182	61	58	1.1	0.9	.77		
13	1.007	15	35,100						7.6	8.9	188	64	63	184	56	65	1.2	0.9	.83		
14	.990	19	35,100	.27					7.6	8.9	186	66	65	186	67	64	1.2	1.0	.90		
15	.994	16	35,100	.20					7.7	8.8	180	60	63	182	59	60	1.2	0.9	.95		
16	1.148	18	35,100	.23					7.5	9.0	180	60	61	175	58	58	1.1	1.0	1.01		
17	1.203	21	35,100	.21					7.5	8.9	180	59	60	178	56	58	1.2	0.9	1.17		
18	1.015	19	35,100	.16					7.6	8.9	175	62	60	180	60	58	1.1	0.9	.99		
19	1.053	19	35,100	.14					7.9	8.9	180	57	61	182	52	58	1.1	0.9	.93		
20	1.092	19	35,100	.16					7.8	8.9	170	65	60	175	64	57	1.2	1.0	.99		
21	1.012	18	35,100	.13					7.5	8.9	186	56	61	176	54	56	1.0	0.9	.95		
22	.915	14	35,100	.15					7.7	8.9	182	66	60	174	64	57	1.1	0.8	.87		
23	1.096	18	35,100	.20					7.6	8.9	188	61	61	187	60	60	1.1	0.9	1.00		
24	1.114	20	35,100	.16					7.6	8.7	184	63	62	182	64	59	1.3	0.9	.88		
25	1.108	17	35,100	.15					7.6	8.8	178	62	61	182	60	57	1.2	0.9	.93		
26	1.100	19	35,100	.23					7.5	9.0	174	53	63	180	54	62	1.1	1.0	.89		
27	.950	18	35,100	.17					7.7	9.0	194	62	61	179	60	60	1.1	0.9	.98		
28	1.180	20	35,100	.13					7.6	8.8	179	89	93	181	103	126	1.1	0.9	.94	2760	
29	.728	14	35,100	.13					7.6	8.8	178	61	68	174	59	64	1.1	0.9	1.01		
30	1.146	17	35,100	.16					7.7	8.9	182	60	62	176	63	59	1.2	0.9			
31																					
TOT	31.582	528.8	1,053,000	430				AVG.			180	61	62	179	61	61	1.1	0.9			
AVG	1.052	19	35,100	.19																	
AV	1.234	21	35,100	.29																	

SIGNED

CERTIFICATION: GRADE

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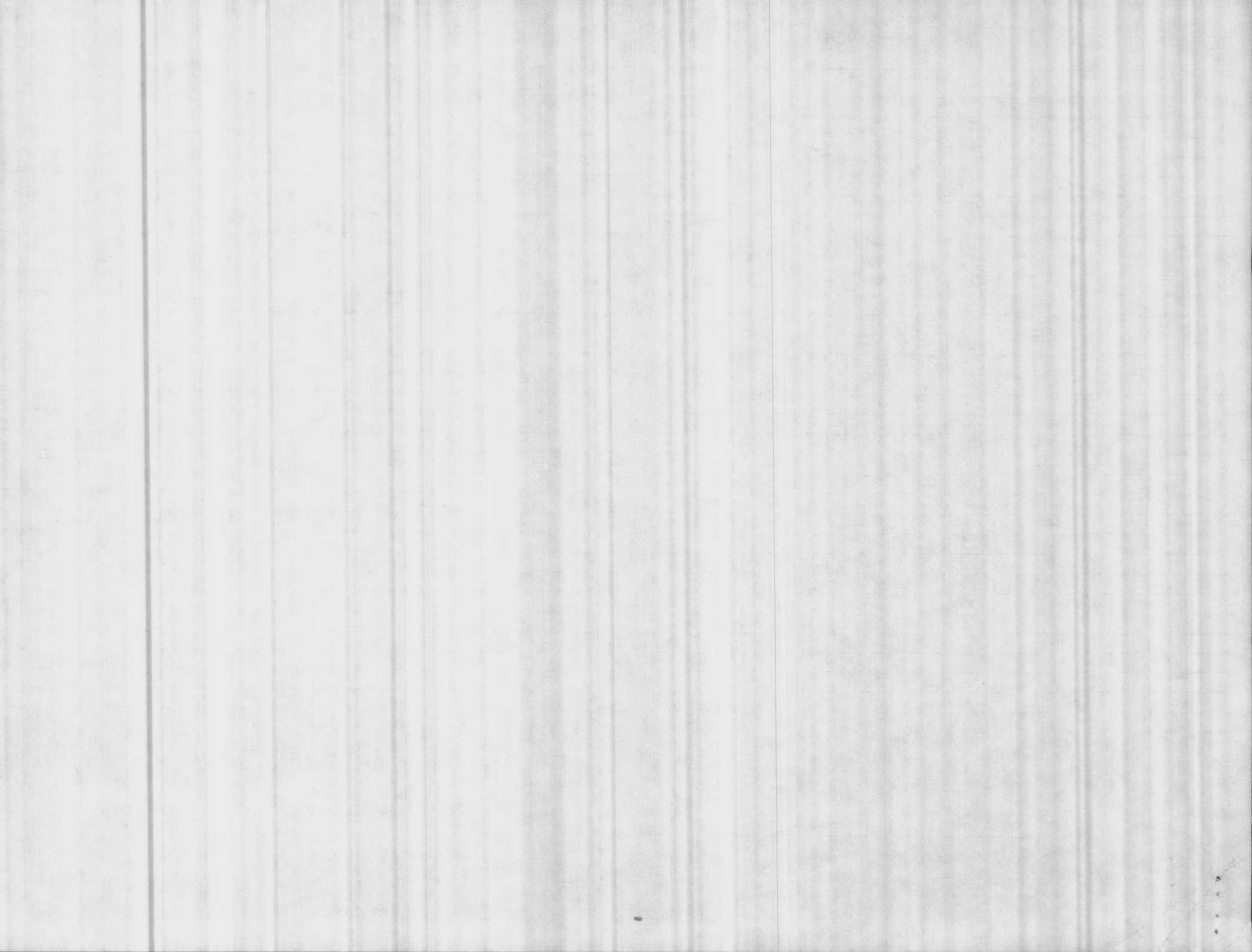


NUMBER OF WELLS IN SYSTEM

TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU) LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	p.H.		HARDNESS (mg/l)		ALK (mg/l)		CHLORINE (mg/l)		FLUORIDE DELIVERED	REMARKS	
								RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	DRUMMEL FILTER	DELIVERED			PLANT
.616	12 1/2	0						7.6	8.7	162	60	58	266	159	186		0.76	
.650	12 1/2	60,000						7.6	8.5	168	61	57	276	163	163		0.7	
.829	15 1/2	60,000						7.5	8.6	162	54	55	268	157	156		0.77	
.673	13 1/2	60,000						7.6	8.4	154	56	53	262	154	154		0.7	
.654	14	60,000						7.6	8.5	180	58	54	243	157	153		0.65	
.657	14 1/2	0						7.5	8.5	160	57	51	280	165	164		0.76	
.651	15	120,000						7.5	8.4	160	55	55	270	163	159		0.8	
.584	11 1/2	0						7.4	8.4	154	55	52	276	155	157		0.75	
.564	13	60,000						7.5	8.5	150	58	51	276	163	152		0.8	
.641	13 1/2	48,000						7.4	8.4	164	60	54	272	166	151		0.71	
.536	12 1/2	0						7.4	8.4	156	59	66	277	146	152		0.77	
.622	15	120,000						7.5	8.6	154	52	53	274	150	153		0.76	
.641	16 1/2	0						7.6	8.6	150	54	52	274	157	155		0.78	
.597	15	120,000						7.8	8.4	144	63	58	276	170	177		0.78	
.615	15	60,000						7.6	8.4	160	59	55	272	168	178		0.77	
.539	13	0						7.5	8.4	152	57	56	270	151	164		0.75	
.616	14 1/2	48,000						7.5	8.5	162	58	52	268	149	151		0.76	
.652	16 1/2	60,000						7.4	8.5	150	56	51	272	148	152		0.76	
.641	16 1/2	0						7.4	8.5	156	65	59	270	154	159		0.75	
.716	13 1/2	60,000						7.4	8.4	190	63	78	260	185	180		0.73	
.727	17 1/2	120,000						7.4	8.6	152	56	68	260	172	162		0.75	
.622	12	0						7.5	8.4	156	56	55	268	166	180		0.68	
.664	12	0						7.5	8.4	158	55	55	262	149	162		0.65	
.662	13 1/2	60,000						7.4	8.4	156	56	53	268	157	152		0.76	
.606	14 1/2	60,000						7.7	8.6	160	60	53	270	149	144		0.75	
.610	14	0						7.4	8.6	158	58	51	268	143	148		0.77	
.507	12	60,000						7.4	8.6	160	55	50	264	177	157		0.74	
.523	11 1/2	60,000						7.7	8.6	158	56	54	262	152	156		0.79	
.495	9 1/2	60,000						7.5	8.5	156	58	54	280	153	155		0.76	
.541	10	0						7.4	8.5	158	58	53	266	157	159		0.75	
18.651	402	1,350,000																
6.217	13.4	45,000																

SIGNED *[Signature]*

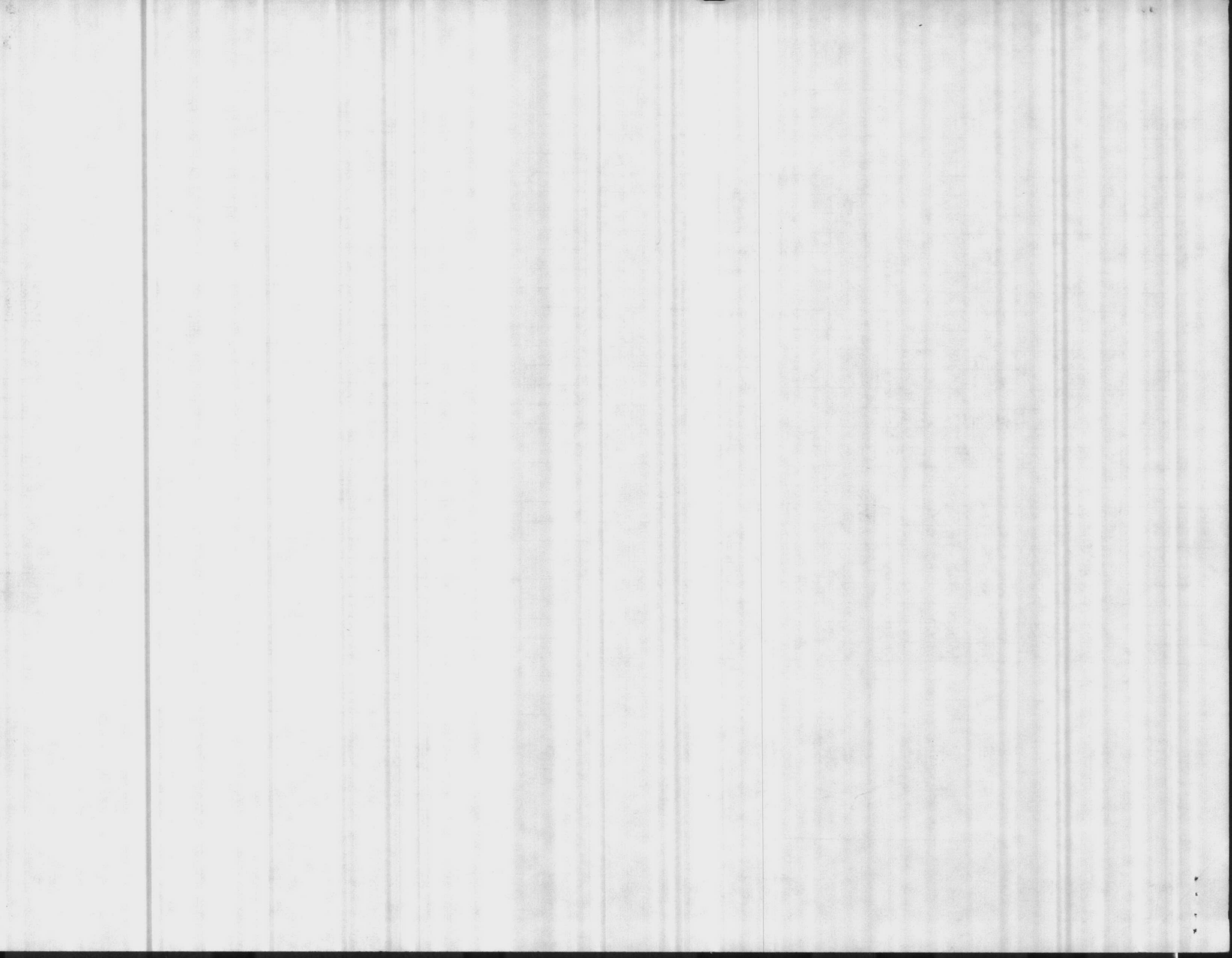
CERTIFICATION GRADE A NO. 1201



TOTAL WATER PUMPED (MGD)	HOURS PLANT OPERATED	BACKWASH WATER USED (GALLONS)	TURBIDITY (NTU)	LIME PLTS ONLY	LIME USED (POUNDS)	FLUORIDE USED (POUNDS)	PHOSPHATE USED (LBS OR GALS)	OTHER	P.H.		HARDNESS (mg/l)		ALK (mg/l)		CHLORINE (ppm/l)		FLUORIDE DELIVERED	REMARKS	
									RAW	FINISHED	RAW	SOFTENER	DELIVERED	RAW	FILTER	DELIVERED			PLANT
2.233	24	39,900							7.6	9.0	175	58	61	143	53	53	1.1	1.0	
2.352	24	79,800							7.8	9.0	173	59	60	167	51	51	1.0	1.0	
2.859	24	39,900							7.6	9.0	177	58	60	173	54	52	1.1	1.0	
2.720	24	79,800							7.4	8.9	163	59	62	148	49	53	1.1	1.1	1.08
2.835	24	39,900							7.4	8.9	176	59	62	145	49	52	1.1	1.0	1.07
2.817	24	79,800							7.4	8.9	176	61	60	146	53	52	1.1	1.0	.96
2.984	24	39,900							7.4	8.7	172	62	60	144	51	51	1.0	1.0	1.29
2.544	24	79,800							7.4	8.8	172	61	63	144	51	51	1.1	1.0	.69
2.416	24	39,900							7.3	8.8	173	62	66	146	51	51	1.1	1.0	.20
2.580	24	39,900							7.3	8.8	174	62	63	146	50	50	1.1	1.0	.35
2.197	24	39,900							7.3	8.8	172	59	61	144	51	50	1.0	1.0	.35
2.627	24	79,800							7.3	8.8	172	59	62	144	51	52	1.0	1.0	.35
2.755	24	39,900							7.3	8.8	173	60	62	144	51	50	1.0	1.0	.35
2.654	24	79,800							7.4	8.7	172	59	60	145	53	52	1.0	1.0	1.35
2.532	24	39,900							7.4	8.5	172	59	62	148	52	52	1.0	1.0	.35
2.226	24	79,800							7.4	8.5	172	60	62	146	52	54	1.1	1.0	.35
2.951	24	39,900							7.5	8.8	173	60	64	144	50	54	1.1	1.0	1.17
2.783	24	119,700							7.5	8.7	174	66	70	148	55	55	1.1	1.0	.45
2.645	24	39,900							7.6	8.7	176	60	63	150	53	56	1.1	1.0	
3.200	24	79,800							7.5	8.8	174	63	61	146	50	54	1.1	1.0	
3.028	24	39,900							7.5	8.8	178	60	64	148	50	52	1.1	1.0	.65
2.633	24	79,800							7.5	8.8	176	60	64	146	50	52	1.1	1.0	.62
2.599	24	39,900							7.5	8.8	174	60	64	146	50	52	1.1	1.0	.70
3.310	24	39,900							7.6	8.8	174	60	61	146	50	52	1.1	1.0	.76
3.046	24	79,800							7.4	8.8	176	59	60	144	51	53	1.1	1.0	1.44
2.935	24	39,900							7.4	8.8	174	61	60	146	51	54	1.1	1.0	1.12
2.218	24	79,800							7.6	8.8	177	62	61	147	50	53	1.1	1.0	1.12
2.274	24	39,900							7.6	9.0	168	59	65	155	48	51	1.0	1.0	1.04
3.115	24	39,900							7.7	9.0	166	63	64	150	50	51	1.0	1.0	1.18
2.230	24	39,900							7.6	8.9	170	63	64	147	52	51	0.8	0.8	

OT 80.092 726,715,700
 VG 2.669 24 57,190
 3.210 24 11,700

SIGNED B. Ryall
 CERTIFICATION: GRADE A NO 1201



COOK WELL STRAINER CORP.
4848 FRANKLIN AVENUE
CINCINNATI, OHIO 45212

To:

CAROLINA WELL PUMP
110 MAPLE
SANFORD N.C. 27330

