

FILE FOLDER

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Old Lab Reports

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~~GAS MOTOR LOG~~

RR-85 DIESEL

OLD Log's

CHEMICAL ANALYSIS - WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 8/84)

DATE COLLECTED

1-20-87

DATE OF ANALYSIS

1-20-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.1	7.5	9.1	7.4	8.1	8.3	8.7	8.8		
PHENOLTHALEIN ALKALINITY	0	0	8	0	0	4	4	8		
METHYL ORANGE ALKALINITY	54	186	44	160	184	160	52	176		
CARBONATES AS CaCO ₃	0	0	16	0	0	8	8	16		
BICARBONATES AS CaCO ₃	54	186	28	160	184	152	44	160		
CHLORIDES AS Cl	12	10	16	18	18	54	14	72		
HARDNESS AS CaCO ₃	62	54	68	160	54	60	60	56		
IRON AS Fe	<0.04	0.18	<0.04	0.29	<0.04	<0.04	<0.04	<0.04		
FLUORIDE	AM 0.77	0.12	0.60	0.11	0.09	0.08	0.84	0.58		
	PM 0.86		0.43				0.84			
CHLORINE RESIDUAL	1.0	1.0	1.1	1.1	1.4	1.0	0.8	0.8		
TURBIDITY	AM 0.2	1.5	0.3	0.5	0.4	0.1	0.3	0.2		
	PM 0.3		1.5				0.2			
TOTAL PHOSPHATE		2.2								
ORTHO PHOSPHATE		1.0								
META PHOSPHATE		1.2								
STABILITY	-0.4	-0.6	+0.9	-0.5	-0.2	0.0	+0.2	+0.1		

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REMARKS

OB Pond pH = 7.8

COPY TO:

UTIL DIR _____

WATER TREATMENT

PMU MCAS PMU

NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Burns + Co.



PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.4	7.2	8.4	7.4	7.9	8.0	8.3	8.5
PHENOLTHALEIN ALKALINITY	4	0	4	0	0	0	0	10
METHYL ORANGE ALKALINITY	56	174	50	174	178	168	74	144
CARBONATES AS CaCO ₃	8	0	8	0	0	0	0	20
BICARBONATES AS CaCO ₃	48	174	42	174	178	168	74	124
CHLORIDES AS Cl	12	12	16	18	18	48	10	56
HARDNESS AS CaCO ₃	62	68	74	52	60	62	76	54
IRON AS Fe	10.04	0.21	0.06	0.17	40.04	40.04	40.04	0.05
FLUORIDE	AM 1.17 DM 1.21	0.14	0.76 0.79	0.13	0.10	0.09	1.00 1.04	0.53
CHLORINE RESIDUAL	1.0	1.2	1.0	1.5	1.3	1.0	1.0	1.0
TURBIDITY	AM 0.9 PM 1.1	1.7	0.8 1.5	1.1	1.2	0.9	0.9 3.2	1.6
TOTAL PHOSPHATE		3.0						
ORTHO PHOSPHATE		1.2						
META PHOSPHATE		1.8						
STABILITY	+0.6	-0.7	+0.6	-0.7	-0.1	-0.1	+0.2	+0.1

REMARKS
 O.B. Pond pH = 7.8

COPY TO:

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WATER TREATMENT

PMU MCAS PMU

NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY
 L. [unclear] - H. Burns



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED
 2-24-87

DATE OF ANALYSIS
 2-24-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.4	7.4	9.0	7.4	8.2	8.3	NO SAMPLE ↑	8.9	
PHENOLTHALEIN ALKALINITY	4	0	4	0	0	4		20	
METHYL ORANGE ALKALINITY	74	176	44	156	174	154		148	
CARBONATES AS CaCO ₃	8	0	8	0	0	8		40	
BICARBONATES AS CaCO ₃	66	176	36	156	174	146		108	
CHLORIDES AS Cl	10	12	16	20	16	44		56	
HARDNESS AS CaCO ₃	68	62	64	54	60	64		70	
IRON AS Fe	← A A DOWN →								
FLUORIDE AM	1.14		1.60						
FLUORIDE PM	1.16	0.17	1.47	0.15	0.12	0.10		0.55	
CHLORINE RESIDUAL	1.1	1.2	1.0	1.1	1.4	1.0		0.8	
TURBIDITY AM	0.7		1.9						
TURBIDITY PM	1.1	1.1	1.9	0.6	0.3	1.0		0.7	
TOTAL PHOSPHATE		2.4							
ORTHO PHOSPHATE		1.0							
META PHOSPHATE		1.4							
STABILITY	+0.8	-0.5	+1.4	-0.5	+0.1	+0.5	↓	+0.8	

REMARKS

OB Pond pH = 8.1

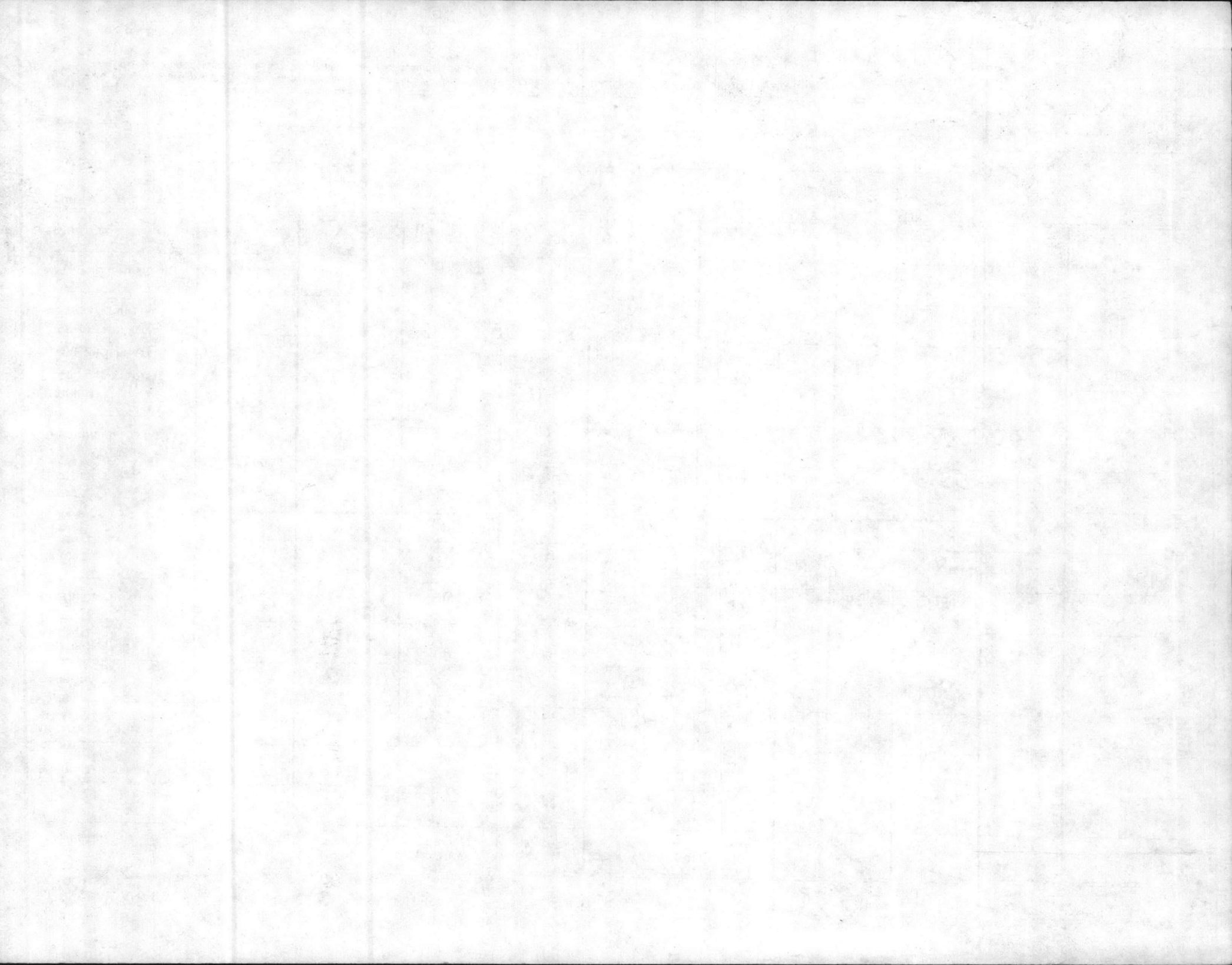
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- UTIL DIR _____
- WATER TREATMENT
- PMU MCAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

H. Burns & L. Lane



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED
 3-10-87

DATE OF ANALYSIS
 3-10-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLGOMB BLVD	NEW RIVER		
PH	8.5	7.5	8.7	7.5	8.1	8.3	8.9	8.8		
PHENOLTHALEIN ALKALINITY	2	0	4	0	0	2	6	8		
METHYL ORANGE ALKALINITY	50	164	60	150	166	160	56	130		
CARBONATES AS CaCO ₃	4	0	8	0	0	4	12	16		
BICARBONATES AS CaCO ₃	46	164	52	150	166	156	44	114		
CHLORIDES AS Cl	14	10	10	20	10	50	10	60		
HARDNESS AS CaCO ₃	64	60	70	58	54	60	66	42		
IRON AS Fe	—	—	A.A.	DOWN	—	—	—	—		
FLUORIDE	A.M. 0.76 P.M. 0.83	0.17	0.77	0.13	0.10	0.09	1.01 0.95	0.54		
CHLORINE RESIDUAL	1.1	1.0	0.9	1.1	1.2	1.0	1.2	0.8		
TURBIDITY	A.M. 0.1 P.M. 0.1	1.5	0.8	0.2	0.1	0.1	0.2 0.2	0.7		
TOTAL PHOSPHATE		2.18								
ORTHO PHOSPHATE		1.03								
META PHOSPHATE		1.15								
STABILITY	+0.2	-0.6	+0.5	-0.7	-0.1	0.0	+0.6	+0.1		

REMARKS

COPY TO:

UTIL DIR _____

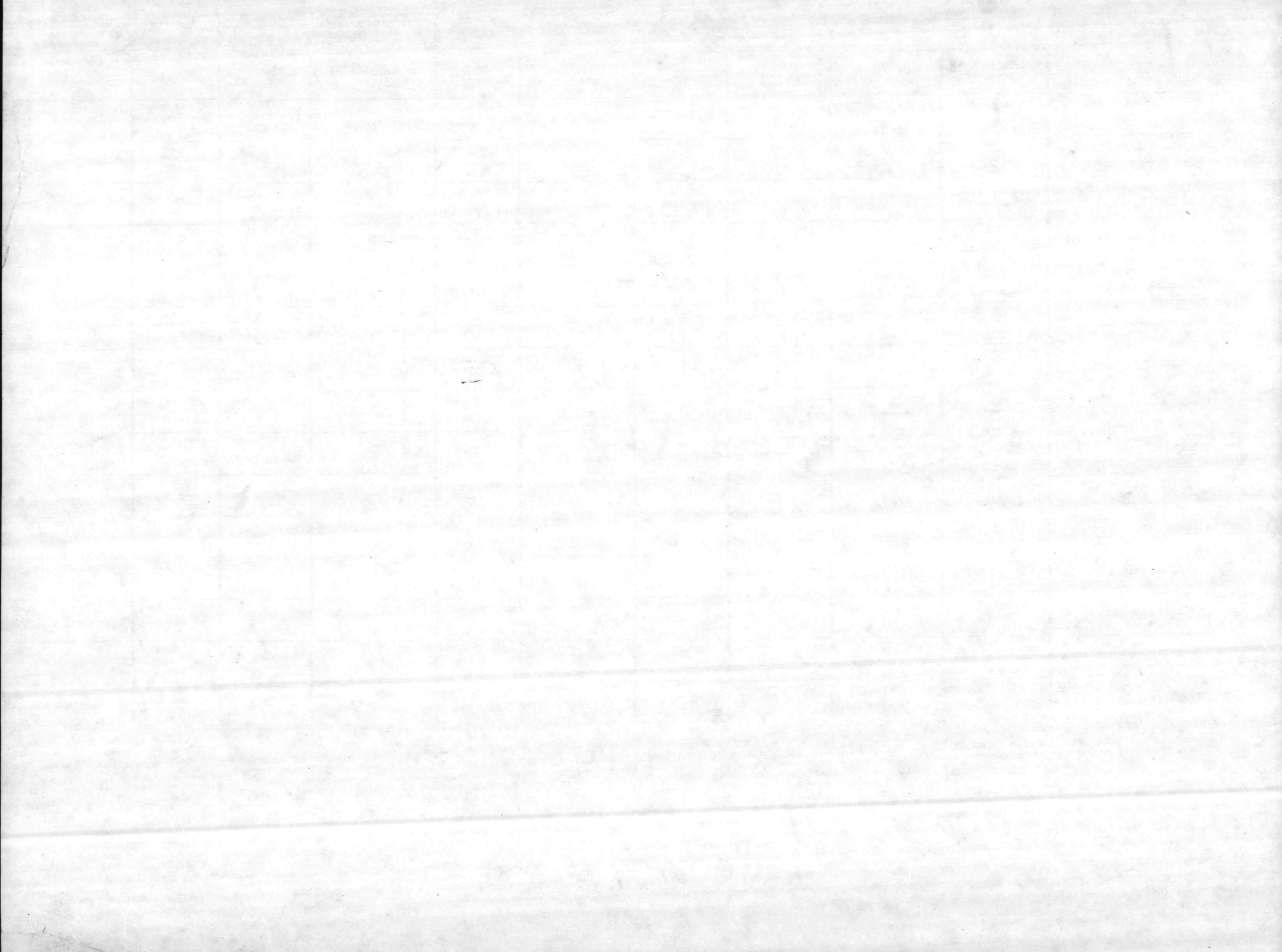
WATER TREATMENT

PMU MCGAS PMU

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

B. S. S.



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

3-24-87

DATE OF ANALYSIS

3-24-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.4			7.4	8.1	8.2	8.4	8.8		
PHENOLTHALEIN ALKALINITY	4			0	0	4	4	20		
METHYL ORANGE ALKALINITY	70			160	174	156	56	130		
CARBONATES AS CaCO ₃	8			0	0	8	8	40		
BICARBONATES AS CaCO ₃	62			160	174	148	48	90		
CHLORIDES AS Cl	10			18	20	50	10	60		
HARDNESS AS CaCO ₃	74			64	54	54	68	48		
IRON AS Fe	—			A.A	DOWN	—	—	—		
FLUORIDE	A.M. 0.61 P.M. 0.65			0.14	0.11	0.09	0.98 0.96	0.52		
CHLORINE RESIDUAL	1.1			1.2	1.2	1.0	1.1	0.8		
TURBIDITY	A.M. 1.2 P.M. 1.8			0.1	0.1	0.1	0.2 0.2	1.1		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.4			-0.6	-0.1	-0.1	+0.2	+0.2		

REMARKS

COPY TO:

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WATER TREATMENT

PMU

MCAS PMU

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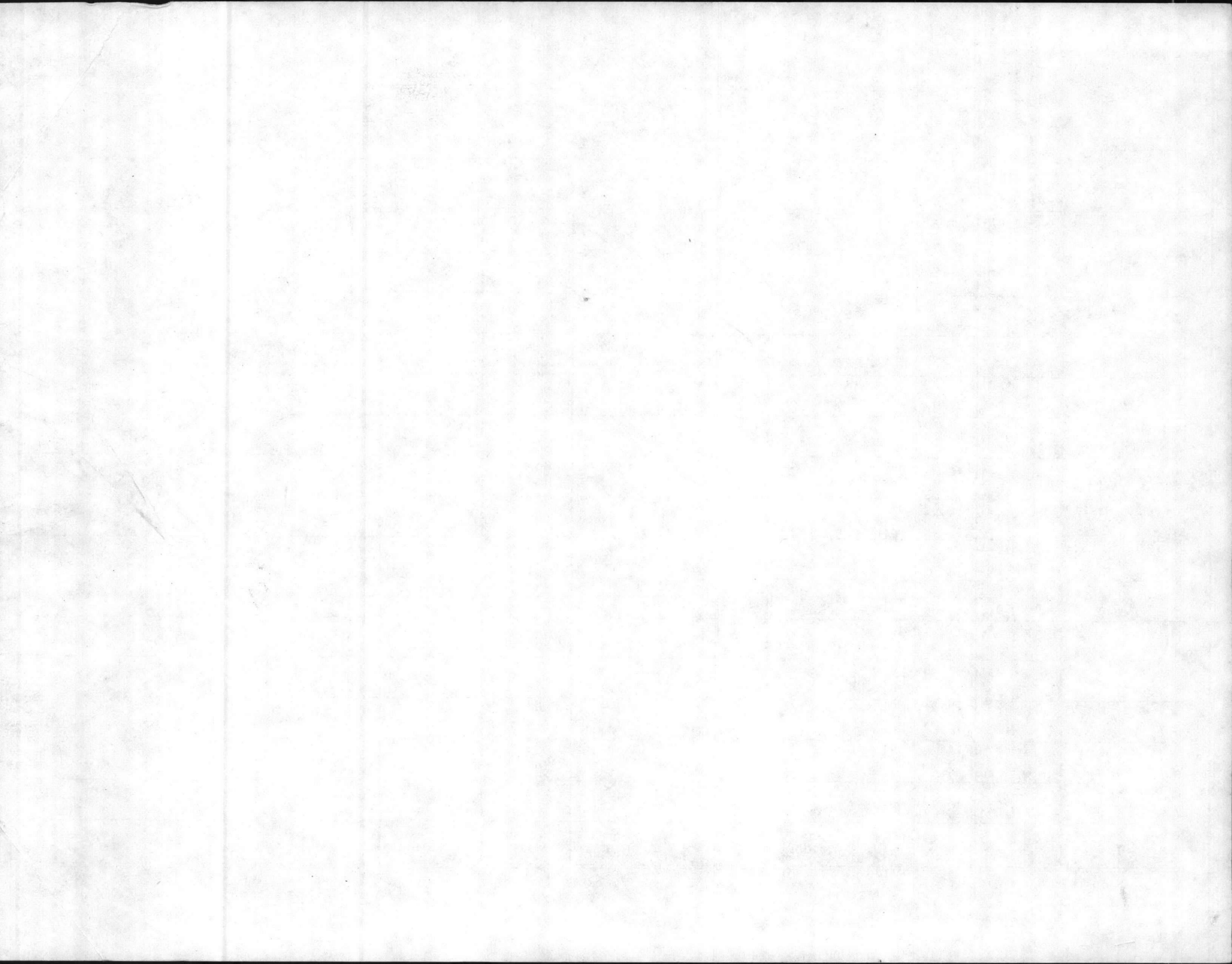
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NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

H. J. Burns

RR85



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED
 3-31-87

DATE OF ANALYSIS
 3-31-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ON SLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	7.9			7.5	8.1	7.8	8.3	8.7		
PHENOLTHALEIN ALKALINITY	0			0	0	0	2	16		
METHYL ORANGE ALKALINITY	56			168	194	186	58	148		
CARBONATES AS CaCO ₃	0			0	0	0	4	32		
BICARBONATES AS CaCO ₃	56			168	194	186	54	116		
CHLORIDES AS Cl	6			26	16	48	10	60		
HARDNESS AS CaCO ₃	60			54	60	62	66	44		
IRON AS Fe			AA	15	DOWN					
FLUORIDE AM/PM	0.19/0.17			0.14	0.12	0.11	0.92/0.93	0.58		
CHLORINE RESIDUAL	1.0			1.2	1.2	1.1	1.5	0.8		
TURBIDITY AM/PM	0.1/0.7			0.1	0.1	0.1	0.1/0.1	0.2		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	-0.4			-0.6	-0.2	-0.5	-0.1	0		

REMARKS
 pH OB POND = 7.8

COPY TO:

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WATER TREATMENT

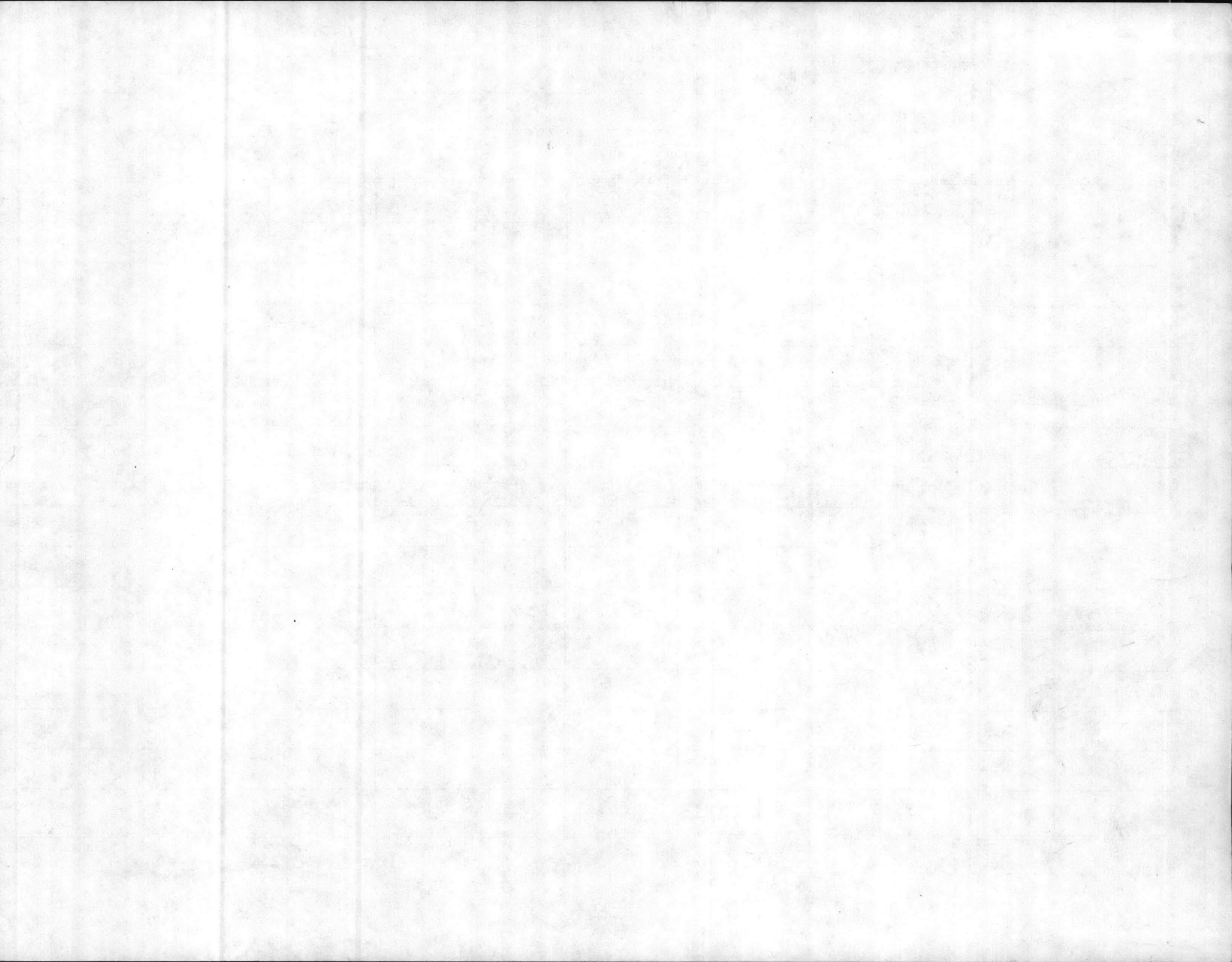
PMU MCAS PMU

NREAR _____

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Barber



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330 3 (REV. 6-84)

DATE COLLECTED
 4-21-87

DATE OF ANALYSIS
 4-21-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8			7.4	7.6	8.1	8.5	8.6		
PHENOLTHALEIN ALKALINITY	4			0	0	0	6	10		
METHYL ORANGE ALKALINITY	50			160	180	170	60	116		
CARBONATES AS CaCO ₃	8			0	0	0	12	20		
BICARBONATES AS CaCO ₃	42			160	180	170	48	96		
CHLORIDES AS Cl	10			20	16	50	14	60		
HARDNESS AS CaCO ₃	60			56	46	56	60	44		
IRON AS Fe				A.A. DOWN						
FLUORIDE	AM. 1.10 P.M. 1.11			0.16	0.14	0.12	0.93 0.95	0.51		
CHLORINE RESIDUAL	1.0			1.2	1.4	1.0	1.2	0.8		
TURBIDITY	AM. 0.1 P.M. 0.1			0.2	0.1	0.1	0.2 0.2	0.3		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.5			-0.6	-0.4	0.0	+0.2	+0.2		

REMARKS

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WATER TREATMENT

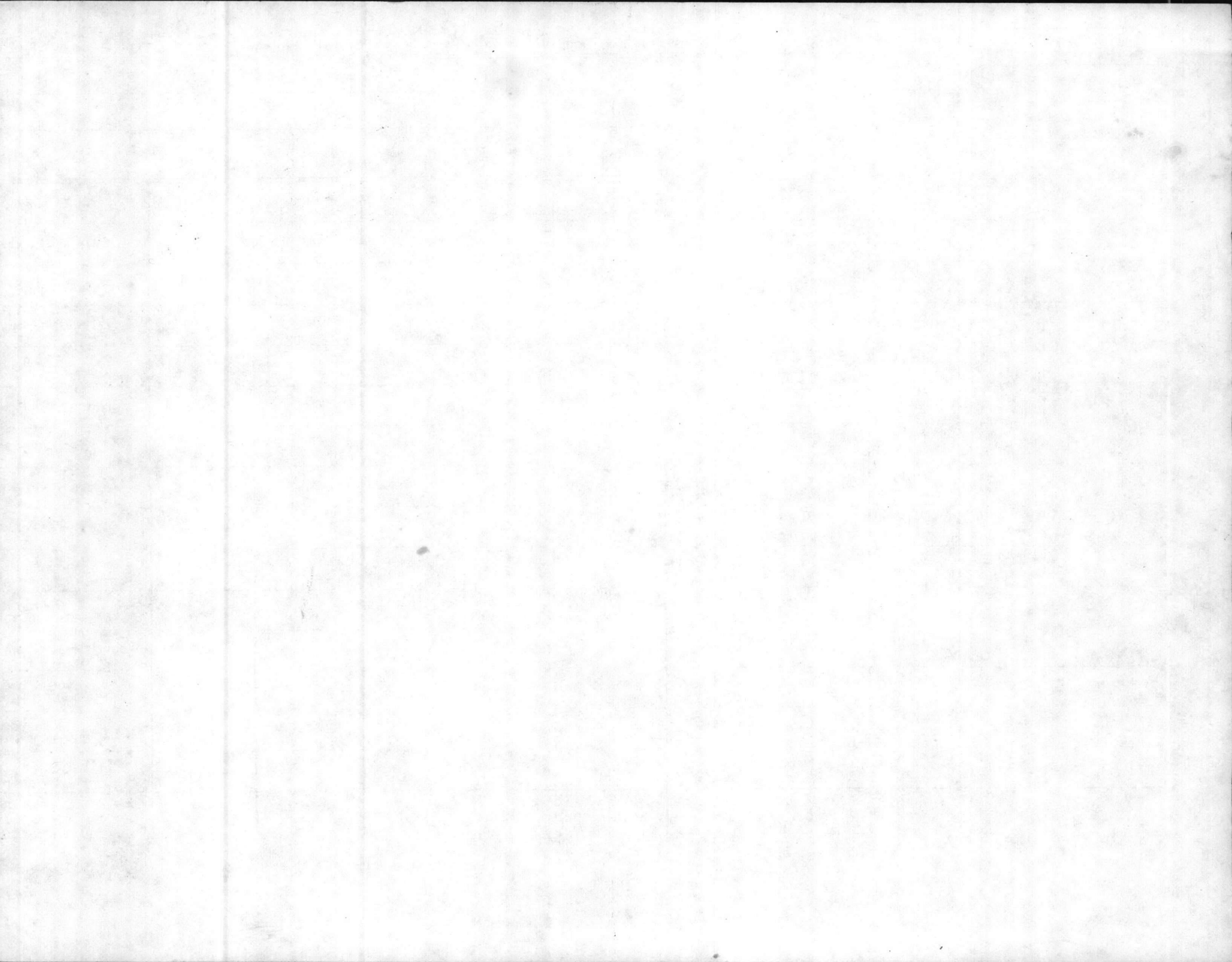
PMU MCAS PMU

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NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

H. J. [Signature]





PHYSICAL ANALYSIS — WATER TREATMENT PLANTS

DATE COLLECTED
3-17-87

DATE OF ANALYSIS
3-17-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.2	8.2	8.6	7.6	8.3	8.4	8.6	8.8		
PHENOLTHALEIN ALKALINITY	0	0	2	0	0	0	2	12		
METHYL ORANGE ALKALINITY	58	66	58	162	178	162	52	144		
CARBONATES AS CaCO ₃	0	0	4	0	0	0	4	24		
NON-CARBONATES AS CaCO ₃	58	66	54	162	178	162	48	120		
CHLORIDES AS Cl	8	8	8	18	20	48	8	58		
IRON AS Fe	66	64	66	60	68	56	66	54		
AM	0.25			AA	DOWN					
PM	0.27	0.65	NO SAMPLE	0.17	0.12	0.10	0.80	0.58		
CHLORINE RESIDUAL	1.0	1.0	1.0	1.2	1.2	1.1		0.1		
AM	0.1		NO SAMPLE				0.1			
PM	0.1	0.2	0.3	0.1	0.1	0.1	0.3	0.1		
ORTHOPHOSPHATE		0.4								
METAPHOSPHATE		0.2								
METAPHOSPHATE		0.2								
RESIDUAL ALKALITY	0.0	+0.2	+0.1	-0.4	+0.2	+0.1	+0.2	+0.5		

OB Pond pH = 8.0

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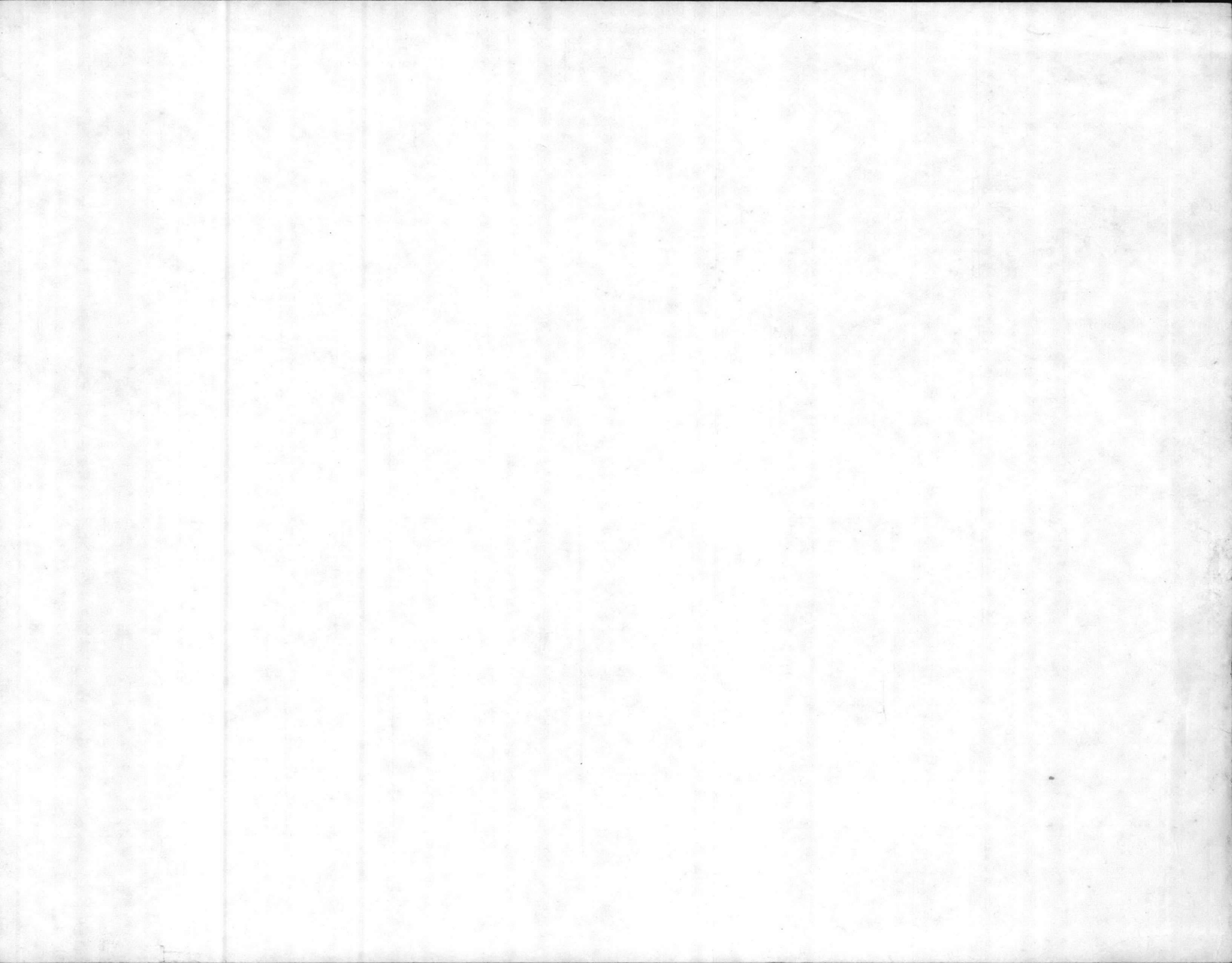
WATER TREATMENT

PMU MCAS PMU

NREAD FILE

LABORATORY ANALYSIS BY
Lyndia Z. Lane & Hwy Burns

Expressed in parts per million unless otherwise noted except for pH, temperature and conductivity. One liter of potable water is assumed to weigh one kilogram.



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

6-9-87

DATE OF ANALYSIS

6-9-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.4			7.5	7.9	8.3	8.5	8.8		
PHENOLTHALEIN ALKALINITY	4			0	0	0	4	4		
METHYL ORANGE ALKALINITY	54			156	170	150	60	90		
CARBONATES AS CaCO ₃	8			0	0	0	8	8		
BICARBONATES AS CaCO ₃	46			156	170	150	52	82		
CHLORIDES AS Cl	12			20	18	24	10	56		
HARDNESS AS CaCO ₃	58			56	50	46	64	50		
IRON AS Fe	<0.04			<0.04	<0.04	<0.04	<0.04	<0.04		
FLUORIDE	A.M. 0.96 P.M. 0.96			0.18	0.13	0.10	0.94 0.94	0.47		
CHLORINE RESIDUAL	1.1			1.2	1.5	0.8	1.1	0.9		
TURBIDITY	A.M. 0.1 P.M. 0.1			0.1	0.4	0.4	0.2 0.7	0.2		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.4			-0.7	-0.4	+0.2	+0.2	+0.3		

REMARKS

COPY TO:

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WATER TREATMENT

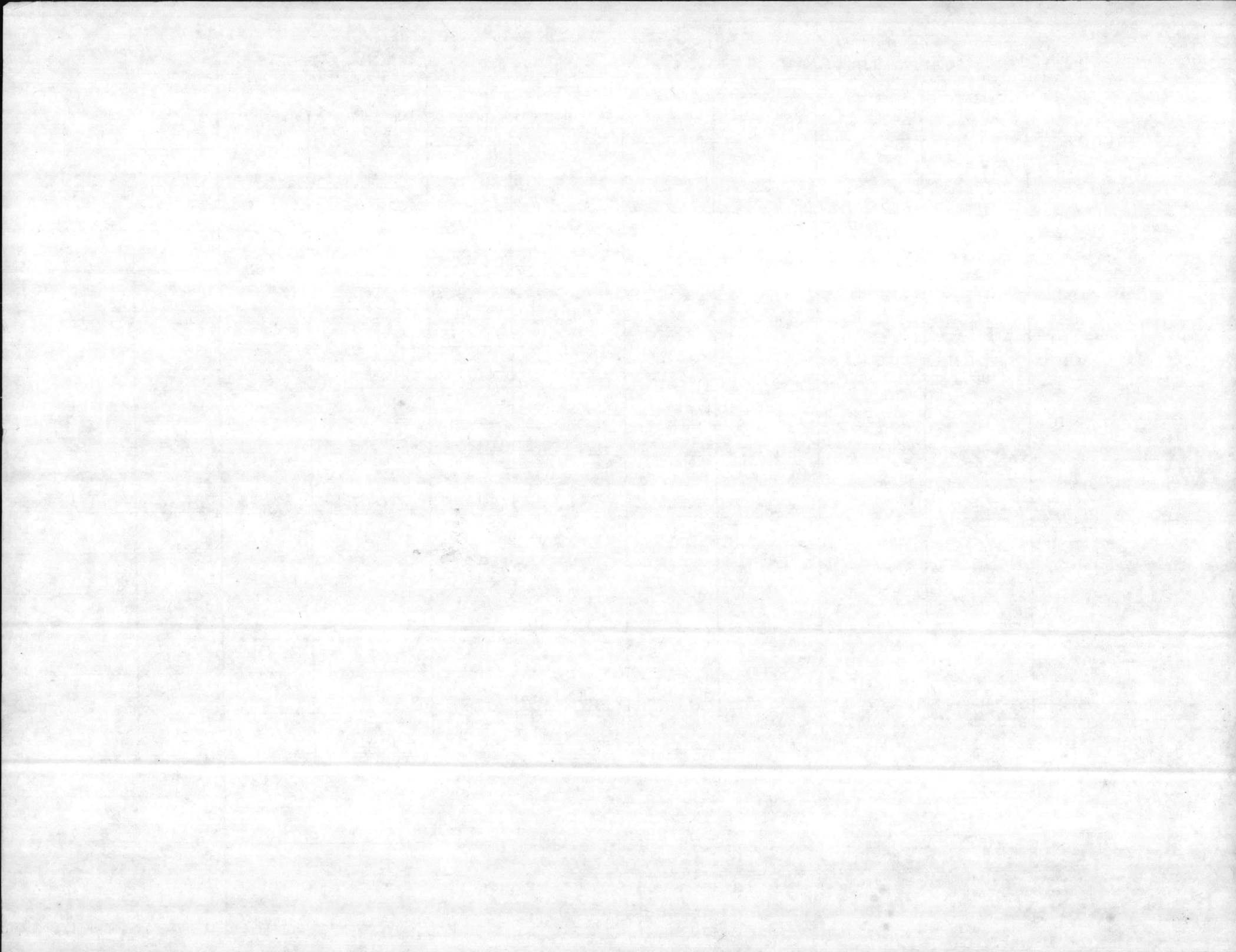
PMU MCAS PMU

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NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Hof. Burrese



CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

5-12-87

DATE OF ANALYSIS

5-13-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8			7.7	7.9	7.9	8.6	8.0		
PHENOLTHALEIN ALKALINITY	14			0	0	0	2	12		
METHYL ORANGE ALKALINITY	62			172	178	176	62	118		
CARBONATES AS CaCO ₃	28			0	0	0	4	24		
BICARBONATES AS CaCO ₃	34			172	178	176	58	94		
CHLORIDES AS Cl	26			38	36	64	26	68		
HARDNESS AS CaCO ₃	82			60	48	72	98	78		
IRON AS Fe	L	AA DOWN								
FLUORIDE	AVI PM 0.89 0.88			0.14	0.11	0.09	0.93 0.27	0.40		
CHLORINE RESIDUAL	1.0			1.2	1.2	1.0	1.2	0.8		
TURBIDITY	AVI PM 0.2 0.3			0.1	0.1	0.1	0.5 0.3	0.4		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.3			-0.5	-0.4	-0.3	+0.1	+0.3		

REMARKS

COPY TO:

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WATER TREATMENT

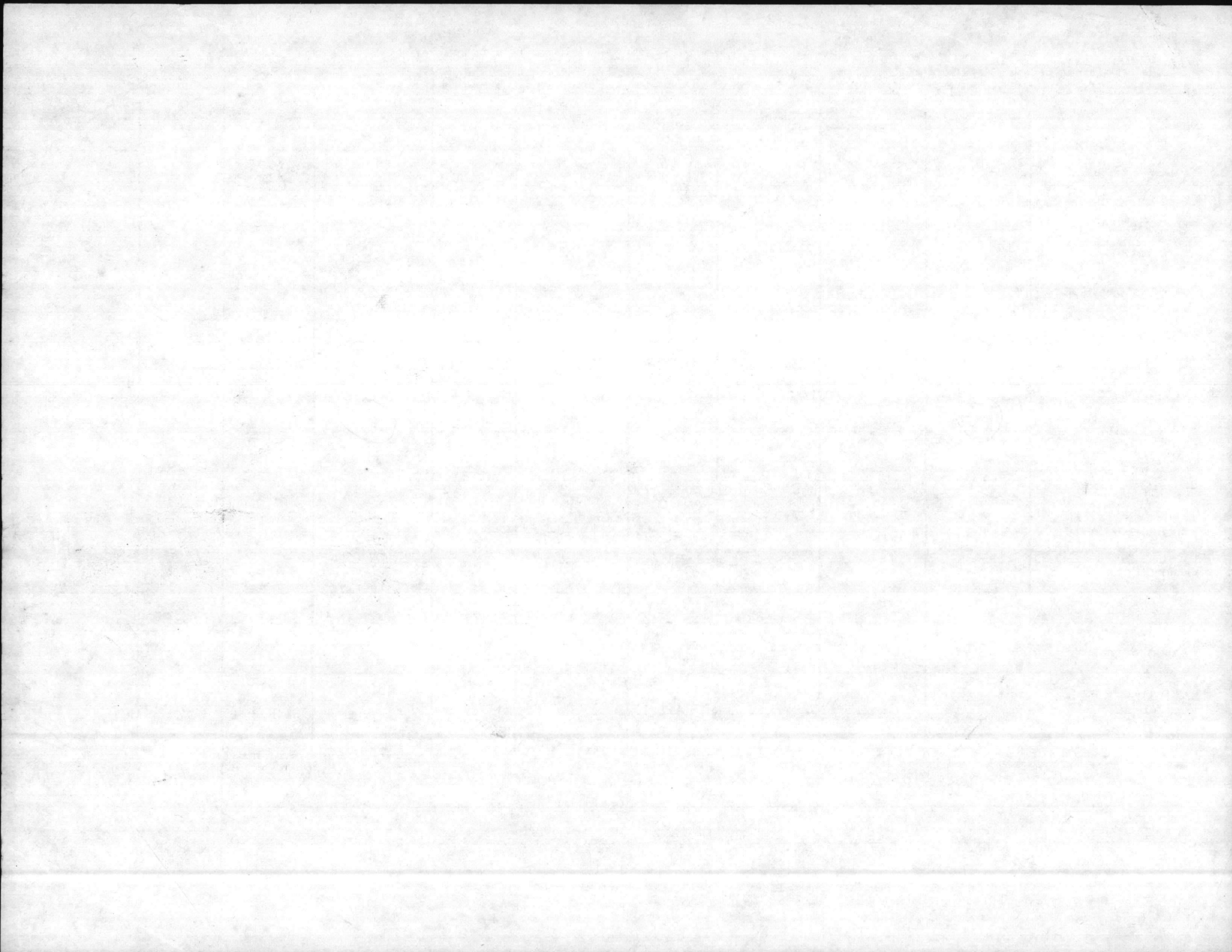
PMU M&AS PMU

NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Carl S. Shoups



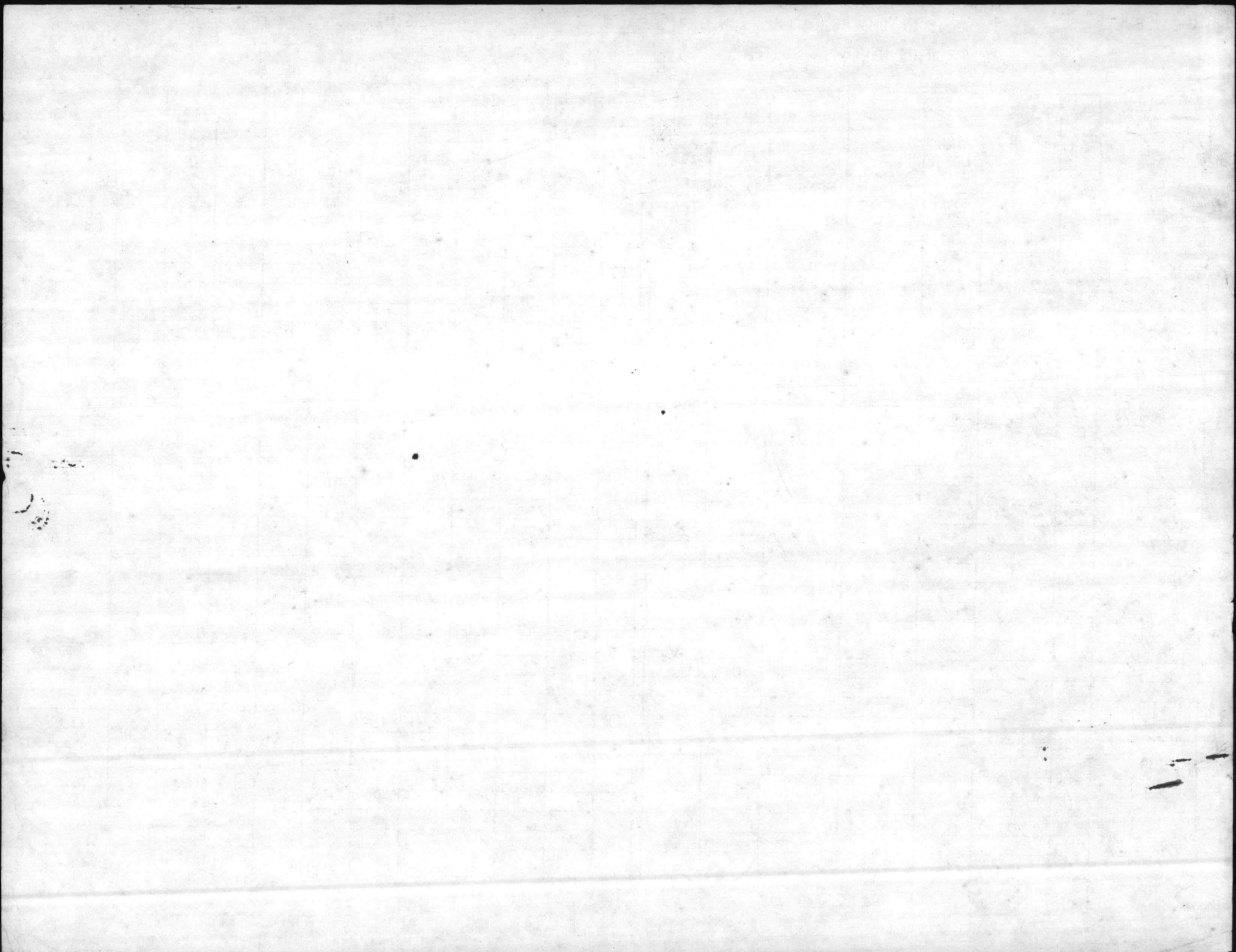
MONTH FEB.
 YEAR 1957

PUBLIC WATER SYSTEM FOR: ONslow BEACH PWSID: 04-67-048
 NUMBER OF WELLS IN SYSTEM 2

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	.082	14	10,000						5	180		184	46	50				2.0	1.4		
2	.080	9	7,000						2			180	48	50				1.6	1.1		
3	.090	17	14,000						5			180	48	50				1.5	1.2		
4	.081	18	14,000						5			180	48	50				1.5	1.3		
5	.083	10	7,000						5			180	49	50				1.6	1.2		
6	.090	11	7,000						3			178	50	50				1.4	1.3		
7	.085	9	4,000						3			180	50	54				1.3	1.1		
8	.038	11	7,000						6			180	43	48				1.4	0.9		
9	.026	10	7,000						6			178	50	48				1.0	1.0		
10	.028	11	12,000						2			180	48	50				2.0	1.1		
11	.033	9	7,000						3			180	48	52				2.0	1.1		
12	.067	8	9,000						3			182	48	50				1.9	1.2		
13	.047	9	5,000						4			180	48	50				1.9	1.2		
14	.046	8	4,000						3			176	48	50				1.8	1.2		
15	.045	8	5,000						2			174	48	50				1.8	1.2		
16	.051	8	7,000						5			176	48	48				1.7	1.2		
17	.068	14	5,000						5			188	47	53				1.8	1.6		
18	.082	18	2,000						5			174	63	52				1.4	1.2		
19	.089	10	7,000						4			180	48	50				1.3	1.4		
20	.084	9	7,000						4			184	44	50				1.8	1.5		
21	.086	10	5,000						3			180	48	50				1.6	1.4		
22	.089	9	5,000						3			180	50	54				1.1	1.1		
23	.089	10	5,000						5			180	48	50				1.6	1.1		
24	.081	8	7,000						6			178	46	48				1.5	1.1		
25	.089	10	5,000						3			182	49	52				1.5	1.1		
26	.099	9	5,000						3			180	48	50				1.4	1.1		
27	.092	7	5,000						3			180	48	50				1.5	1.1		
28	.091	9	9,000						3			180	48	50				1.3	1.0		
29																					
30																					
31																					
TOT																					
AVG																					
MAX																					

SIGNED _____

CERTIFICATION: GRADE _____ NO. _____



RR. 85 ~~Gas motor logs~~ sheets
DIESEL

PLANT.