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Analyses

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11330.2 CHEMICAL ANALYSIS (83)

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CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 8.7 9-25-84

PARAMETER	HADNOT POINT 8.5	MONTFORD POINT 8.2	TARAWA TERRACE 8.6	ONSLOW BEACH 8.3	COURTHOUSE BAY 8.4	RIFLE RANGE 8.5	HOLCOMB BLVD 8.4	NEW RIVER	
PH	9.0	7.6	9.2	7.5	8.5	8.4	8.7	8.7	
PENOLTHALEIN ALKALINITY	12	0	10	0	2	6	6	14	
METHYL ORANGE ALKALINITY	66	190	50	160	162	172	66	240	
CARBONATES AS $CaCO_3$	24	0	20	0	4	12	12	28	
BICARBONATES AS $CaCO_3$	42	190	30	160	158	160	54	212	
CHLORIDES AS C1	20	30	10	20	20	20	16	170	
HARDNESS AS $CaCO_3$	66	104	66	66	60	46	74	48	
IRON AS Fe	<0.04	0.61	<0.04	0.16	<0.04	<0.04	<0.04	<0.04	
FLUORIDE	1.03/1.07	0.18	1.21/1.25	0.18	0.12	0.10	0.97/0.95	1.13	
CHLORINE RESIDUAL	1.0	1.5	1.2	1.3	1.3	1.0	0.9	1.2	
TURBIDITY	0.40/0.50	1.3	0.4/0.8	0.2	0.3	0.3	0.3/0.2	0.4	
TOTAL PHOSPHATE		0.81			0.52				
ORTHO PHOSPHATE		0.73			0.19				
META PHOSPHATE		0.08			0.33				
STABILITY	+0.5	-0.6	+0.6	-0.8	+0.1	-0.1	+0.3	0	

REMARKS

OB POND = 8.3

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 T.L. Barber + Burns

DATE OF ANALYSIS 9-25-84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 18 Sept 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.1	7.4	8.9	7.4	8.5	8.4	8.8	8.8
PENOLTHALEIN ALKALINITY	6	0	4	0	8	6	4	18
METHYL ORANGE ALKALINITY	54	192	52	166	150	152	62	240
CARBONATES AS $CaCO_3$	12	0	8	0	16	12	8	36
BICARBONATES AS $CaCO_3$	42	192	44	166	134	140	54	204
CHLORIDES AS C1	10	36	10	18	16	16	10	162
HARDNESS AS $CaCO_3$	62	76	66	56	56	40	66	56
IRON AS Fe	<0.04	0.46	<0.04	0.13	<0.04	<0.04	<0.04	<0.04
FLUORIDE AM / PM	0.78 / 0.80	0.19	1.02 / 0.92	0.19	0.12	0.11	0.97 / 1.00	1.05
CHLORINE RESIDUAL	1.2	1.4	1.1	1.5	1.1	1.0	1.2	1.4
TURBIDITY AM / PM	0.2 / 0.3	1.4	0.7 / 1.6	0.4	0.2	0.3	0.4 / 0.3	0.4
TOTAL PHOSPHATE		2.52			1.30			
ORTHO PHOSPHATE		0.96			0.28			
META PHOSPHATE		1.56			1.02			
STABILITY	+0.7	−0.7	+0.5	−0.9	+0.1	−0.1	+0.5	+0.2

REMARKS

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: Lachapelle

Th Barbee

DATE OF ANALYSIS: 18 Sept 1984

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CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 9/15/84

PARAMETER	~~HADNOT POINT~~	~~MONTFORD POINT~~	TARAWA TERRACE	~~ONSLOW BEACH~~	~~COURTHOUSE BAY~~	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH			7.7						
PENOLTHALEIN ALKALINITY			0						
METHYL ORANGE ALKALINITY			120						
CARBONATES AS $CaCO_3$			0						
BICARBONATES AS $CaCO_3$			120						
CHLORIDES AS C1			10						
HARDNESS AS $CaCO_3$			140						
IRON AS Fe			—						
FLUORIDE			1.23						
CHLORINE RESIDUAL			0.9						
TURBIDITY			1.8						
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

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

DATE OF ANALYSIS 9/15/84

MR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 9/4/84

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		8.9	7.4	8.5	7.4	8.4	8.1	8.8	8.9
PENOLTHALEIN ALKALINITY		6	0	2	0	6	0	4	20
METHYL ORANGE ALKALINITY		42	180	60	160	158	170	56	184
CARBONATES AS $CaCO_3$		12	0	4	0	12	0	8	40
BICARBONATES AS $CaCO_3$		30	180	56	160	146	170	48	144
CHLORIDES AS C1		10	16	10	20	14	50	12	190
HARDNESS AS $CaCO_3$		56	64	80	60	56	50	58	58
IRON AS Fe		<0.04	0.54	<0.04	0.15	<0.04	<0.04	<0.04	<0.04
FLUORIDE	AM	1.02	0.17	0.90	0.16	0.11	0.13	0.76	0.80
	PM	1.00		0.92				0.75	
CHLORINE RESIDUAL		1.1	1.4	1.1	1.5	1.4	0.6	0.8	1.2
TURBIDITY	A.M.	0.4	1.1	0.4	0.2	0.3	0.3	0.3	0.6
	P.M.	0.4		0.6				0.1	
TOTAL PHOSPHATE			2.70			1.09			
ORTHO PHOSPHATE			1.21			0.25			
META PHOSPHATE			1.49			0.76			
STABILITY		+0.6	-0.8	+0.2	-0.9	0.0	-0.3	+0.3	+0.2

REMARKS

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 & Huneycutt

DATE OF ANALYSIS 9/4/84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 28 Aug 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.4	8.4	7.4	8.4	8.1	8.9	8.7
PENOLTHALEIN ALKALINITY	4	0	2	0	6	3	6	12
METHYL ORANGE ALKALINITY	60	190	74	160	164	184	60	214
CARBONATES AS $CaCO_3$	8	0	4	0	12	6	12	24
BICARBONATES AS $CaCO_3$	52	190	70	160	152	178	48	190
CHLORIDES AS C1	14	42	14	24	18	52	16	184
HARDNESS AS $CaCO_3$	70	78	96	62	58	70	62	60
IRON AS Fe	<0.04	0.52	<0.04	0.14	<0.04	0.15	<0.04	<0.04
FLUORIDE AM / PM	1.09 / 1.06	0.16	1.02 / 1.11	0.15	0.11	0.11	0.67 / 1.07	0.93
CHLORINE RESIDUAL	1.0	1.3	1.0	1.3	1.3	1.1	0.9	1.2
TURBIDITY AM / PM	0.4 / 0.5	1.5	0.2 / 0.6	0.2	0.4	0.6	0.2 / 0.2	0.6
TOTAL PHOSPHATE		2.80			1.26			
ORTHO PHOSPHATE		1.10			0.35			
META PHOSPHATE		1.70			0.91			
STABILITY	+0.5	−0.7	+0.2	−0.7	0.0	+0.2	+0.6	+0.2

REMARKS

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: Lachapelle & Burns

DATE OF ANALYSIS: 28 Aug 1984

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 26 JUNE 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	OB POND: 9.11
PH (Pressure cleaned water lines)	9.04	7.35	8.63	7.55	8.35	8.33	8.84	8.67	
PENOLTHALEIN ALKALINITY	6	0	2	0	4	2	6	6	
METHYL ORANGE ALKALINITY	50	182	54	160	164	150	60	156	
CARBONATES AS $CaCO_3$	12	0	4	0	8	4	12	12	
BICARBONATES AS $CaCO_3$	38	182	50	160	156	146	48	144	
CHLORIDES AS C1	10	20	6	16	12	10	20	110	
HARDNESS AS $CaCO_3$	56	70	76	64	58	44	64	56	
IRON AS Fe	<0.04	0.56	0.04	0.15	0.04	0.07	0.06	0.08	
FLUORIDE AM/PM	0.12/0.12	0.13	0.92/0.90	0.15	0.08	0.08	0.15/0.13	0.66	
CHLORINE RESIDUAL	1.1	1.4	1.0	1.5	1.4	1.0	1.0	1.2	
TURBIDITY AM/PM	0.5	0.48	0.26/0.27	0.19	0.57	0.36	0.1/0.23	0.50	
TOTAL PHOSPHATE		2.52			1.09				
ORTHO PHOSPHATE		1.13			0.16				
META PHOSPHATE		1.39			0.93				
STABILITY	+0.55	−1.03	+0.24	−0.76	−0.07	−0.17	+0.38	+0.07	

REMARKS

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: T. Barber, L. Kenyacutt

DATE OF ANALYSIS: 26 JUNE 84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

MR PRICE

DATE COLLECTED 8/21/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7	7.4	8.5	7.5	8.6	8.3	8.7	8.7
PENOLTHALEIN ALKALINITY	4	0	4	0	4	0	4	10
METHYL ORANGE ALKALINITY	60	190	66	160	140	176	70	200
CARBONATES AS $CaCO_3$	8	0	8	0	8	0	8	20
BICARBONATES AS $CaCO_3$	52	190	58	160	132	176	62	180
CHLORIDES AS C1	10	40	16	24	20	50	12	180
HARDNESS AS $CaCO_3$	60	80	90	64	54	78	64	60
IRON AS Fe	<0.04	1.52	<0.04	0.12	<0.04	<0.04	<0.04	<0.04
FLUORIDE A.M./P.M.	1.03/1.05	0.16	0.96/1.00	0.17	0.11	0.11	1.11/1.02	0.92
CHLORINE RESIDUAL	1.0	1.4	1.0	1.5	1.6	1.0	1.0	1.4
TURBIDITY A.M./P.M.	0.50/0.80	2.9	0.30/0.70	0.30	0.40	0.40	0.30/0.30	0.60
TOTAL PHOSPHATE		2.05			1.30			
ORTHO PHOSPHATE		1.46			0.35			
META PHOSPHATE		0.59			0.95			
STABILITY	+0.5	−0.7	+0.3	−0.7	+0.2	0.0	+0.5	+0.1

REMARKS

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 & CHAPELLE

DATE OF ANALYSIS: 8/21/84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 14 AUG 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.3	7.6	8.7	7.7	8.3	8.1	8.8	8.8
PENOLTHALEIN ALKALINITY	6	0	2	0	2	0	4	8
METHYL ORANGE ALKALINITY	46	184	50	160	152	176	56	180
CARBONATES AS $CaCO_3$	12	0	4	0	4	0	8	16
BICARBONATES AS $CaCO_3$	34	184	46	160	148	176	48	164
CHLORIDES AS C1	14	30	10	20	14	48	10	190
HARDNESS AS $CaCO_3$	56	74	68	50	70	72	70	50
IRON AS Fe	0.04	0.49	0.04	0.09	0.06	0.04	0.04	0.04
FLUORIDE AM/PM	1.02/1.05	0.20	0.96/1.00	0.21	0.14	0.13	0.95/0.96	0.82
CHLORINE RESIDUAL	1.1	1.2	1.0	1.6	1.3	1.1	1.0	1.3
TURBIDITY AM/PM	0.9/1.0	1.52	0.2/0.72	0.6	0.3	0.4	0.2/0.2	0.70
TOTAL PHOSPHATE		2.80			1.35			
ORTHO PHOSPHATE		1.17			0.22			
META PHOSPHATE		1.63			1.13			
STABILITY	+0.8	-0.6	+0.4	-0.6	0.0	-0.1	+0.3	0.0

REMARKS

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 + Hargrove

DATE OF ANALYSIS: 14 AUG 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 7 Aug 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7	7.6	8.6	7.4	8.5	8.1	8.8	8.7
PENOLTHALEIN ALKALINITY	4	0	2	0	4	0	2	12
METHYL ORANGE ALKALINITY	56	168	60	162	156	172	60	174
CARBONATES AS $CaCO_3$	8	0	4	0	8	0	4	24
BICARBONATES AS $CaCO_3$	48	168	56	162	148	172	56	150
CHLORIDES AS C1	14	34	14	20	24	46	14	170
HARDNESS AS $CaCO_3$	64	90	78	74	66	46	60	50
IRON AS Fe	0.06	0.68	0.06	0.22	0.04	0.11	0.04	0.04
FLUORIDE AM / PM	0.97 / 1.04	0.19	0.96 / 1.00	0.16	0.12	0.12	1.01 / 1.05	0.76
CHLORINE RESIDUAL	1.0	1.3	1.0	1.1	1.5	1.0	1.1	1.2
TURBIDITY AM / PM	0.4 / 0.7	1.57	0.5 / 0.6	0.3	0.3	0.5	0.3 / 0.3	0.8
TOTAL PHOSPHATE		3.30			0.73			
ORTHO PHOSPHATE		1.46			0.16			
META PHOSPHATE		1.84			0.57			
STABILITY	+0.2	-0.7	+0.2	-1.0	-0.1	-0.5	+0.3	0.0

REMARKS

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: Lafayette + Burns Th Barber

DATE OF ANALYSIS: 7 Aug 1984

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

MR. PRICE

DATE COLLECTED 7/31/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	8.3	8.3	7.4	8.4	8.2	8.7	8.7
PENOLTHALEIN ALKALINITY	6	0	0	0	2	0	4	10
METHYL ORANGE ALKALINITY	54	192	66	150	142	168	66	176
CARBONATES AS $CaCO_3$	12	0	0	0	4	0	8	20
BICARBONATES AS $CaCO_3$	42	192	66	150	138	168	58	156
CHLORIDES AS C1	14	48	14	26	26	44	20	180
HARDNESS AS $CaCO_3$	56	154	78	46	46	52	60	56
IRON AS Fe	<0.04	1.10	<0.04	0.08	0.05	<0.04	0.05	0.04
FLUORIDE A.M./P.M.	1.17/1.14	0.19	1.24/1.07	0.19	0.14	0.11	0.81/0.82	0.76
CHLORINE RESIDUAL	1.1	1.3	1.0	1.2	1.5	1.0	0.9	1.2
TURBIDITY A.M./P.M.	0.6/0.6	1.1	0.60/1.0	0.30	0.20	0.40	0.20/0.30	0.60
TOTAL PHOSPHATE		1.17			1.21			
ORTHO PHOSPHATE		0.88			0.25			
META PHOSPHATE		0.29			0.96			
STABILITY	+0.6	−0.3	+0.1	−0.6	+0.1	−0.1	+0.5	+0.2

REMARKS

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 & BARBEE

DATE OF ANALYSIS: 7/31/84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 24 July 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.2	8.6	7.4	8.4	8.4	8.9	8.4
PENOLTHALEIN ALKALINITY	4	0	4	0	4	4	6	6
METHYL ORANGE ALKALINITY	56	190	58	160	170	164	62	178
CARBONATES AS $CaCO_3$	8	0	8	0	8	8	12	12
BICARBONATES AS $CaCO_3$	48	190	50	160	162	156	50	166
CHLORIDES AS C1	12	48	16	24	22	20	18	156
HARDNESS AS $CaCO_3$	60	86	80	72	60	48	58	76
IRON AS Fe	<0.04	0.77	<0.04	0.12	<0.04	<0.04	<0.04	<0.04
FLUORIDE AM / PM	1.00 / 1.06	0.17	0.97 / 1.04	0.18	0.12	0.10	0.78 / 0.90	0.72
CHLORINE RESIDUAL	1.0	1.5	1.1	1.4	1.5	1.0	0.9	1.3
TURBIDITY AM / PM	3.1 / 3.7	0.9	0.4 / 1.7	0.4	0.3	0.4	0.2 / 0.2	0.6
TOTAL PHOSPHATE		3.45			0.92			
ORTHO PHOSPHATE		1.38			0.13			
META PHOSPHATE		2.07			0.79			
STABILITY	+0.6	-0.9	+0.2	-0.8	+0.1	0.0	+0.5	0.0

REMARKS

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: Lachapelle, Th Barber

DATE OF ANALYSIS: 24 July 84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

Complaint Bld. 1602 Knox Trailer Park

DATE COLLECTED 7/13/84 / 1115

PARAMETER	HADNOT POINT	~~MONTFORD POINT~~	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH		7.20							
PENOLTHALEIN ALKALINITY		0							
METHYL ORANGE ALKALINITY		198							
CARBONATES AS $CaCO_3$		0							
BICARBONATES AS $CaCO_3$		198							
CHLORIDES AS C1		80							
HARDNESS AS $CaCO_3$		118							
IRON AS Fe		2.42							
FLUORIDE		0.15							
CHLORINE RESIDUAL		0.2							
TURBIDITY		8.6							
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

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. Huneycutt

DATE OF ANALYSIS 7/13/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

TEST WELLS

DATE COLLECTED 7/10/84

PARAMETER	2 ~~HADNOT POINT~~	3 ~~MONTFORD POINT~~	4 ~~TARAWA TERRACE~~	5 ~~ONSLOW BEACH~~	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	7.9	7.9	8.3	8.2					
PENOLTHALEIN ALKALINITY	0	0	0	0					
METHYL ORANGE ALKALINITY	140	184	120	90					
CARBONATES AS $CaCO_3$	0	0	0	0					
BICARBONATES AS $CaCO_3$	140	184	120	90					
CHLORIDES AS C1	10	2	2	2					
HARDNESS AS $CaCO_3$	150	156	54	94					
IRON AS Fe	4.20	5.00	1.64	2.60					
FLUORIDE	0.15	0.34	1.25	0.28					
CHLORINE RESIDUAL									
TURBIDITY	23.0	25.0	29.0	30.0					
~~XXXXXXXXXXXXXXXX~~ STATIC	6'6"	11'6"	7'0"	18'0"					
~~XXXXXXXXXXXXXXXX~~ DEPTH	90'	76'	107'	102'					
META PHOSPHATE									
STABILITY									

REMARKS

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

DATE OF ANALYSIS 7/10/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

MR PRICE

DATE COLLECTED 17 JULY 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.1	7.4	9.3	7.6	8.4	8.3	8.8	8.9
PENOLTHALEIN ALKALINITY	10	0	10	0	2	2	4	10
METHYL ORANGE ALKALINITY	40	180	30	154	140	146	60	160
CARBONATES AS $CaCO_3$	20	0	20	0	4	4	8	20
BICARBONATES AS $CaCO_3$	20	180	10	154	136	142	52	140
CHLORIDES AS C1	10	40	10	16	10	10	10	150
HARDNESS AS $CaCO_3$	48	70	50	60	58	42	66	60
IRON AS Fe	<0.04	0.49	<0.04	0.21	<0.04	0.08	0.06	0.06
FLUORIDE A.M./P.M.	1.01/1.05	0.17	0.99/0.99	0.19	0.10	0.07	1.40/1.30	0.67
CHLORINE RESIDUAL	1.0	1.4	1.0	1.9	1.3	1.0	0.9	1.3
TURBIDITY	1.5/0.7	1.0	0.7/5.6	0.3	0.20	0.4	0.20/0.30	0.90
TOTAL PHOSPHATE		4.05			0.92			
ORTHO PHOSPHATE		1.35			0.16			
META PHOSPHATE		2.70			0.76			
STABILITY	+0.3	−0.6	+0.3	−0.6	+0.1	−0.1	+0.2	+0.1

REMARKS

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 + BARBee

DATE OF ANALYSIS 17 JULY 84

MR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 7/10/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.5	8.7	7.6	8.5	8.3	8.9	8.9
PENOLTHALEIN ALKALINITY	4	0	4	0	4	2	6	4
METHYL ORANGE ALKALINITY	64	170	56	150	170	150	60	150
CARBONATES AS $CaCO_3$	8	0	8	0	8	4	12	8
BICARBONATES AS $CaCO_3$	56	170	48	150	162	146	48	142
CHLORIDES AS C1	10	30	10	14	18	10	10	134
HARDNESS AS $CaCO_3$	72	68	70	64	64	38	60	58
IRON AS Fe	0.06	0.68	<0.04	0.40	<0.04	0.05	<0.04	0.08
FLUORIDE A.M./P.M.	1.17/1.10	0.16	0.93/0.91	0.17	0.09	0.08	1.30/1.25	0.60
CHLORINE RESIDUAL	1.1	1.4	1.0	1.3	1.3	1.0	0.8	1.2
TURBIDITY A.M./P.M.	3.3/3.3	1.4	0.2/0.6	0.52	0.40	0.40	0.2/0.57	1.00
TOTAL PHOSPHATE		4.80			0.92			
ORTHO PHOSPHATE		1.66			0.22			
META PHOSPHATE		3.14			0.70			
STABILITY	+0.5	−0.8	+0.3	−0.8	+0.1	−0.2	+0.5	+0.3

REMARKS

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

DATE OF ANALYSIS 7/10/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 3 JULY 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	ONSLOW BEACH POND
PH	8.36	7.52	7.73	7.64	8.57	8.55	8.78	8.90	8.70
PENOLTHALEIN ALKALINITY	4	0	0	0	4	2	4	10	
METHYL ORANGE ALKALINITY	54	178	148	124	166	158	70	162	
CARBONATES AS $CaCO_3$	8	0	0	0	8	4	8	20	
BICARBONATES AS $CaCO_3$	46	178	148	124	158	154	62	142	
CHLORIDES AS C1	10	18	16	28	20	16	14	134	
HARDNESS AS $CaCO_3$	58	54	154	56	60	52	70	56	
IRON AS Fe	<0.04	0.48	0.10	0.25	<0.04	0.05	<0.04	0.09	
FLUORIDE	0.17 / 0.99	0.16	0.79 / 0.70	0.19	0.10	0.08	0.90 / 0.88	0.73	
CHLORINE RESIDUAL	1.1	1.3	1.0	1.6	1.2	1.0	0.9	1.3	
TURBIDITY	0.63 / 0.83	0.44	0.51 / 0.50	0.38	0.25	0.30	0.28 / 0.20	2.64	
TOTAL PHOSPHATE		1.54			1.13				
ORTHO PHOSPHATE		1.04			0.25				
META PHOSPHATE		0.50			0.88				
STABILITY	-0.35	-0.81	-0.49	-0.71	+0.07	0	+0.28	+0.10	

REMARKS: BYPASSING DUE TO STOPPED UP LINE 4' Piece of Lead.

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: Th Barbee LACHAPELLE TLB

DATE OF ANALYSIS: 3 JULY 84

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 19 JUN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	8.7
PH	8.9	7.3	8.5	7.5	8.4	8.3	8.7	8.6	
PENOLTHALEIN ALKALINITY	8	0	4	0	6	0	8	8	
METHYL ORANGE ALKALINITY	60	184	60	132	162	144	70	156	
CARBONATES AS $CaCO_3$	16	0	8	0	12	0	16	16	
BICARBONATES AS $CaCO_3$	44	184	52	132	150	144	54	140	
CHLORIDES AS C1	10	42	16	22	20	28	14	126	
HARDNESS AS $CaCO_3$	62	64	74	54	50	48	72	78	
IRON AS Fe	0.04	0.55	0.04	0.10	0.04	0.04	0.04	0.05	
FLUORIDE	0.15 / 0.14	0.16	0.92 / 0.89	0.15	0.10	0.09	0.21 / 0.18	0.55	
CHLORINE RESIDUAL	1.0	1.2	1.0	1.4	1.3	1.4	0.9	1.3	
TURBIDITY	7.3 / 0.9	1.0	0.3 / 0.5	0.3	0.2	0.3	0.3 / 0.2	0.7	
TOTAL PHOSPHATE		2.95			0.92				
ORTHO PHOSPHATE		1.30			0.19				
META PHOSPHATE		1.75			0.73				
STABILITY	+0.3	−0.7	0	−0.8	+0.3	−0.1	+0.3	+0.2	

REMARKS

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: M Barbee, J Hunnycutt

DATE OF ANALYSIS: 19 JUN 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 12 JUN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.5	8.4	7.5	8.4	8.3	8.9	8.7
PENOLTHALEIN ALKALINITY	4	0	2	0	4	4	4	10
METHYL ORANGE ALKALINITY	58	188	66	166	172	158	58	136
CARBONATES AS $CaCO_3$	8	0	4	0	8	8	8	20
BICARBONATES AS $CaCO_3$	50	188	62	166	164	150	50	116
CHLORIDES AS C1	12	50	10	18	16	30	14	128
HARDNESS AS $CaCO_3$	66	100	78	60	66	64	58	60
IRON AS Fe	0.08	0.66	0.04	0.14	0.05	0.04	0.05	0.20
FLUORIDE AM/PM	0.93/0.98	0.16	0.84/0.91	0.16	0.11	0.08	1.03/0.94	0.58
CHLORINE RESIDUAL	1.0	1.5	1.0	1.3	1.2	1.0	0.9	1.3
TURBIDITY AM/PM	0.3	0.8	0.3/0.6	0.3	0.2	0.3	0.3/1.3	2.3
TOTAL PHOSPHATE		2.08			0.66			
ORTHO PHOSPHATE		0.84			0.10			
META PHOSPHATE		1.24			0.56			
STABILITY	+0.6	−0.8	+0.2	−0.8	0.0	−0.1	+0.4	+0.2

REMARKS

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: R Barbee, G Hunnycutt

DATE OF ANALYSIS: 12 JUN 84

Mr Price WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 5 June 1984

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		8.8	7.4	8.3	7.5	8.4	7.7	8 .8	8.5
PENOLTHALEIN ALKALINITY		6	0	2	0	4	0	6	6
METHYL ORANGE ALKALINITY		56	190	84	164	160	150	60	192
CARBONATES AS $CaCO_3$		12	0	4	0	8	0	12	12
BICARBONATES AS $CaCO_3$		44	1 90	80	164	152	150	48	180
CHLORIDES AS C1		10	50	10	2 0	20	26	10	134
HARDNESS AS $CaCO_3$		6 6	9 0	100	66	50	42	60	60
IRON AS Fe		0.04	0 .71	0.04	0 .10	0.0 5	0.05	0.04	0 .19
FLUORIDE	AM	0.90		0.94				0.86	
	PM	0 .97	0.18	1.16	0 .19	0.12	0.10	0.86	0.89
CHLORINE RESIDUAL		1.0	1 .4	1.2	1.0	1.2	1.0	1.0	1 .2
TURBIDITY	AM	0 .6		0.8				0.3	
	PM	0.7	1 .3	1.1	0.5	0.4	0.5	0.2	1.7
TOTAL PHOSPHATE			0 .69			1.00			
ORTHO PHOSPHATE			0 .66			0.16			
META PHOSPHATE			0 .03			0.84			
STABILITY		+0.3	-0.6	0 .0	-0.6	+0.1	-0.6	+0.2	+0.1

REMARKS

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 Lachapelle

DATE OF ANALYSIS: 5 June 1984

MR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 5/29/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.0	7.4	8.1	7.5	8.4	8.4	9.0	8.8
PENOLTHALEIN ALKALINITY	8	0	0	0	4	2	6	14
METHYL ORANGE ALKALINITY	50	180	80	160	160	156	56	160
CARBONATES AS $CaCO_3$	16	0	0	0	8	4	12	28
BICARBONATES AS $CaCO_3$	34	180	80	160	152	152	44	132
CHLORIDES AS C1	10	30	10	16	18	20	10	120
HARDNESS AS $CaCO_3$	50	82	98	60	56	38	54	50
IRON AS Fe	<0.04	0.62	<0.04	0.08	<0.04	0.06	<0.04	0.07
FLUORIDE	0.72 / 0.75	0.18	0.89 / 0.68	0.17	0.11	0.10	0.70 / 0.72	0.72
CHLORINE RESIDUAL	1.0	1.4	1.1	1.6	1.5	0.8	0.7	1.2
TURBIDITY	0.15 / 0.31	0.68	0.22 / 0.40	0.37	0.29	0.57	0.20 / 0.26	0.88
TOTAL PHOSPHATE		1.62			1.40			
ORTHO PHOSPHATE		0.96			0.04			
META PHOSPHATE		0.66			1.36			
STABILITY	+0.3	-0.6	-0.1	-0.7	+0.1	-0.1	+0.3	+0.1

REMARKS

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 & NUNNYCUTT

DATE OF ANALYSIS: 5/29/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 5/22/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE (T.T Pool 5/21/84)	ONSLOW BEACH	~~COURTHOUSE BAY~~ (T.T Pool 5/22/84)	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH			6.7		4.18				
PENOLTHALEIN ALKALINITY			0		0				
METHYL ORANGE ALKALINITY			16		2				
CARBONATES AS $CaCO_3$			0		0				
BICARBONATES AS $CaCO_3$			16		2				
CHLORIDES AS C1			200		220				
HARDNESS AS $CaCO_3$			100		110				
IRON AS Fe					<0.04				
FLUORIDE									
CHLORINE RESIDUAL					2(+)				
TURBIDITY					0.17				
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

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 Evans

DATE OF ANALYSIS: 5/22/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

COMPLAINTS TARAWA TERRACE

DATE COLLECTED 5/15/84

PARAMETER	~~HADNOT POINT~~ 915	~~MONTFORD POINT~~ 2267	~~TARAWA TERRACE~~ 1277	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.4	8.3	8.4						
PENOLTHALEIN ALKALINITY	2	2	2						
METHYL ORANGE ALKALINITY	52	50	50						
CARBONATES AS $CaCO_3$	4	4	4						
BICARBONATES AS $CaCO_3$	48	46	46						
CHLORIDES AS C1	10	10	10						
HARDNESS AS $CaCO_3$	70	70	70						
IRON AS Fe	0.05	0.05	0.07						
FLUORIDE	1.16	1.16	1.16						
CHLORINE RESIDUAL	0.9	1.0	1.0						
TURBIDITY	0.37	0.26	1.08						
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

COLI-FORM 915 - 5/16/84 = Ø
2267 - 5/16/84 = Ø
1277 - 5/16/84 = 10

NOTE: 2267
1277 TNTC NON-COLIFORM

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

DATE OF ANALYSIS 5/15/84

NR PRICE

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 5/22/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.5	7.1	8.5	7.2	8.3	8.1	8.6	8.4	
PENOLTHALEIN ALKALINITY	6	0	6	0	6	2	4	4	
METHYL ORANGE ALKALINITY	50	180	52	160	144	150	64	136	
CARBONATES AS $CaCO_3$	12	0	12	0	12	4	8	8	
BICARBONATES AS $CaCO_3$	38	180	40	160	132	146	56	128	
CHLORIDES AS C1	6	26	10	10	10	20	10	126	
HARDNESS AS $CaCO_3$	54	70	60	60	52	60	70	58	
IRON AS Fe	<0.04	0.57	<0.04	0.10	<0.04	0.06	<0.04	0.07	
FLUORIDE	1.09 / 0.99		0.99 / 0.91				0.79 / 0.99	1.09	
CHLORINE RESIDUAL	1.0	1.4	1.2	1.3	1.5	1.0	0.9	1.3	
TURBIDITY	0.50 / 0.50	0.70	0.20 / 1.41	0.30	0.20	0.54	0.30 / 0.30	0.50	
TOTAL PHOSPHATE		1.46			1.00				
ORTHO PHOSPHATE		0.88			0.01				
META PHOSPHATE		0.58			0.99				
STABILITY	+0.3	−0.6	+0.1	−0.8	0.0	+0.1	+0.2	+0.1	

REMARKS

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 & Lachapelle

DATE OF ANALYSIS: 5/22/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

MR PRICE

DATE COLLECTED 5/15/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.6	7.1	8.3	7.3	8.1	8.2	8.6	8.5
PENOLTHALEIN ALKALINITY	4	0	2	0	0	0	4	14
METHYL ORANGE ALKALINITY	50	180	60	164	150	136	60	140
CARBONATES AS $CaCO_3$	8	0	4	0	0	0	8	28
BICARBONATES AS $CaCO_3$	42	180	56	164	150	136	52	112
CHLORIDES AS C1	10	26	10	20	14	20	10	160
HARDNESS AS $CaCO_3$	56	72	70	70	68	54	60	60
IRON AS Fe	<0.04	0.85	<0.04	0.08	0.16	0.05	<0.04	0.10
FLUORIDE	0.95 / 0.99		0.91 / 1.13				0.95 / 1.09	0.83
CHLORINE RESIDUAL	1.0	1.3	1.0	1.2	1.3	1.0	0.9	1.3
TURBIDITY	0.31 / 0.76	1.15	0.29 / 0.46	0.32	0.41	0.39	0.20 / 0.30	0.55
TOTAL PHOSPHATE		4.05			1.84			
ORTHO PHOSPHATE		1.62			0.32			
META PHOSPHATE		2.43			1.52			
STABILITY	+0.1	−0.7	0.0	−0.6	0.0	+0.1	+0.2	+0.1

REMARKS

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 & Lachapelle

DATE OF ANALYSIS 5/15/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

NR PRICE

DATE COLLECTED 5/8/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.4	7.2	8.6	7.3	8.2	8.1	8.6	8.2
PENOLTHALEIN ALKALINITY	2	0	4	0	0	0	4	2
METHYL ORANGE ALKALINITY	60	174	46	144	166	140	54	144
CARBONATES AS $CaCO_3$	4	0	8	0	0	0	8	4
BICARBONATES AS $CaCO_3$	56	174	38	144	166	140	46	140
CHLORIDES AS C1	10	30	10	18	14	16	10	160
HARDNESS AS $CaCO_3$	78	76	68	60	68	50	56	76
IRON AS Fe	<0.04	0.55	<0.04	0.15	0.09	0.06	0.05	0.07
FLUORIDE	1.06 / 1.09	—	1.09 / 1.09	—	—	—	0.91	0.83
CHLORINE RESIDUAL	1.0	1.3	1.0	1.2	1.3	1.0	0.9	1.2
TURBIDITY	0.20 / 0.42	1.60	0.50 / 0.90	0.30	0.35	0.51	3.60 / 2.14	0.61
TOTAL PHOSPHATE		2.95			1.13			
ORTHO PHOSPHATE		1.54			0.32			
META PHOSPHATE		1.41			0.81			
STABILITY	+0.3	−0.5	+0.2	−0.4	+0.2	0.0	+0.3	0.0

REMARKS

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

DATE OF ANALYSIS 5/8/84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 1 May 1984

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		8.5	7.1	8.3	7.2	8.1	8.3	8.6	8.5
PENOLTHALEIN ALKALINITY		4	0	4	0	4	4	6	10
METHYL ORANGE ALKALINITY		56	186	58	164	160	134	62	142
CARBONATES AS $CaCO_3$		8	0	8	8	8	8	12	20
BICARBONATES AS $CaCO_3$		48	186	50	164	152	126	50	122
CHLORIDES AS C1		10	34	12	24	22	24	12	108
HARDNESS AS $CaCO_3$		62	74	78	80	52	38	62	58
IRON AS Fe		0.04	0.55	0.04	0.17	0.08	0.09	0.04	0.14
FLUORIDE	AM	1.20		1.13				0.99	
	PM	1 .06	—	1.06	—	—	—	0.79	0.83
CHLORINE RESIDUAL		1.1	1.4	1.0	* 0.9	1.5	1.1	1.0	1.5
TURBIDITY	AM	0.2		0.6				0.3	
	PM	0.6	0.6	0.6	0.4	0.4	0.5	0.2	1.1
TOTAL PHOSPHATE			1.52			1.76			
ORTHO PHOSPHATE			1.21			0.25			
META PHOSPHATE			0.31			1.51			
STABILITY		+0.1	-0.6	+0.1	-0.7	+0.1	0.0	+0.3	+0.2

REMARKS

* Operator (Cannon) did not have Cl_2 on bottle. Phoned in later.

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: Lachapelle + Burns

DATE OF ANALYSIS: 1 May 1984

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

TT Bld 1533

DATE COLLECTED: 17 APR 84

PARAMETER	HADNOT POINT	MONTFORD POINT	~~TARAWA TERRACE~~	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH			8.1						
PENOLTHALEIN ALKALINITY			10						
METHYL ORANGE ALKALINITY			64						
CARBONATES AS $CaCO_3$			20						
BICARBONATES AS $CaCO_3$			44						
CHLORIDES AS C1			10						
HARDNESS AS $CaCO_3$			86						
IRON AS Fe			0.05						
FLUORIDE			1.04						
CHLORINE RESIDUAL			1.2						
TURBIDITY			1.1						
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

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: Hunycutt

DATE OF ANALYSIS: 18 APR 84

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
Potable	Hill	17 APR 84

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
Bld 1533		Ø	

REMARKS

SIGNATURE D. Lenzenetti, Jr. DATE 18 APR 84

COPY TO

- [ ] INREAD
- [ ] UTILITIES DIRECTOR
- [x] WATER TREATMENT PLANT (GENERAL FOREMAN)
- [x] BASE PREVENTIVE MEDICINE
- [ ] MCAS PREVENTIVE MEDICINE
- [x] File

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 17 April 1984

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CHB Steam Plant	TT 1539
PH		9.0	7.3	8.5	7.4	8.2	8.2	8.9	8.6	8.3	8.6
PENOLTHALEIN ALKALINITY		6	0	2	0	4	4	8	10	4	4
METHYL ORANGE ALKALINITY		54	184	64	158	170	170	60	150	174	64
CARBONATES AS $CaCO_3$		12	0	4	0	8	8	16	20	8	8
BICARBONATES AS $CaCO_3$		42	184	60	158	162	162	44	130	166	56
CHLORIDES AS C1		8	36	12	18	14	20	8	64	16	10
HARDNESS AS $CaCO_3$		58	78	74	68	60	56	58	50	6 0	76
IRON AS Fe		0.05	0.60	0.04	0.27	0.04	0.07	0.04	0.13	0.04	0.04
FLUORIDE	AM	1.15		0.98				0.98			
	PM	1.16	0.16	1.01	0.19	0.12	0.10	0.89	0.60	0.12	1.01
CHLORINE RESIDUAL		1.0	1.2	1.1	1.0	0.9	1.0	0.9	1.2	0.8	1.0
TURBIDITY	AM	2.2	1.1	0.3				0.2			
	PM			0.4	0.3	0.4	0.6	0.2	1.0	0.3	0.5
TOTAL PHOSPHATE			4.20			1.54					
ORTHO PHOSPHATE			1.54			0.25					
META PHOSPHATE			2.66			1.29					
STABILITY		+0.4	-0.5	+0.1	-0.5	+0.1	+0.1	+0.4	+0.2		

REMARKS

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: Lachapelle

DATE OF ANALYSIS: 17 April 1984

Mr Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 10 April 1984

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		9.1	7.3	8.9	7.4	8.2	8.2	8.7	9.0
PENOLTHALEIN ALKALINITY		8	0	4	0	2	4	6	16
METHYL ORANGE ALKALINITY		60	190	54	160	176	170	70	154
CARBONATES AS $CaCO_3$		16	0	8	0	4	8	12	32
BICARBONATES AS $CaCO_3$		44	190	46	160	172	162	58	122
CHLORIDES AS C1		8	32	8	16	14	14	10	98
HARDNESS AS $CaCO_3$		62	84	64	58	62	64	70	48
IRON AS Fe		0.04	0.58	0.04	1.27	0.04	0.06	0.04	0.14
FLUORIDE	AM	0.85		1.05				0.76	
	PM	0.99	0.14	0.98	0.17	0.10	0.09	0.76	0.64
CHLORINE RESIDUAL		1.1	1.3	1.0	1.4	1.5	1.0	1.1	1.2
TURBIDITY	AM			0.29				0.18	
	PM	1.40	0.76	0.38	1.2	0.30	0.30	0.20	1.30
TOTAL PHOSPHATE			2.60			1.40			
ORTHO PHOSPHATE			1.26			0.25			
META PHOSPHATE			1.34			1.15			
STABILITY		+0.5	-0.6	+0.3	-0.8	-0.1	-0.1	+0.3	+0.1

REMARKS: Repeat - .26 IRON out of Pump

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: Lachapelle + Burns

DATE OF ANALYSIS: 10 April 1984

WRP

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 3 APR 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.4	8.7	7.7	8.3	8.3	8.8	8.5
PENOLTHALEIN ALKALINITY	4	0	8	0	8	8	18	24
METHYL ORANGE ALKALINITY	16	190	56	156	180	176	58	166
CARBONATES AS $CaCO_3$	8	0	16	0	16	16	36	48
BICARBONATES AS $CaCO_3$	8	190	40	156	164	160	22	118
CHLORIDES AS C1	14	36	14	20	20	20	20	104
HARDNESS AS $CaCO_3$	62	76	66	58	64	54	66	78
IRON AS Fe	0.04	0.95	0.04	0.32	0.04	0.08	0.04	0.08
FLUORIDE AM/PM	1.00/0.99	0.16	0.89/0.88	0.18	0.10	0.09	0.98/0.93	0.53
CHLORINE RESIDUAL	1.1	1.3	1.0	1.1	1.3	1.0	0.9	1.3
TURBIDITY	0.30	1.20	0.20/0.70	0.30	0.20	0.50	0.20/0.20	1.40
TOTAL PHOSPHATE		3.85			1.30			
ORTHO PHOSPHATE		1.54			0.32			
META PHOSPHATE		2.31			0.98			
STABILITY	+0.3	-0.5	+0.1	-0.4	0.0	-0.1	+0.2	0.0

REMARKS

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: Lenegatt + Burns

DATE OF ANALYSIS: 3 APR 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 27 March 1984

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		8.7	7.3	8.8	7.4	8.0	8.1	8.7	8.6
PENOLTHALEIN ALKALINITY		4	0	6	0	4	6	6	12
METHYL ORANGE ALKALINITY		60	188	54	160	178	172	66	162
CARBONATES AS $CaCO_3$		8	0	12	0	8	12	12	24
BICARBONATES AS $CaCO_3$		52	188	42	160	170	160	54	138
CHLORIDES AS C1		10	34	12	14	20	20	12	110
HARDNESS AS $CaCO_3$		66	76	64	60	66	48	66	58
IRON AS Fe		0.04	0.58	0.04	0.25	0.04	0.06	0.04	0.15
FLUORIDE	AM	0.98		1.07				0.77	
	PM	0.95	0.16	1.03	0.18	0.11	0.10	0.74	0.63
CHLORINE RESIDUAL		1.0	1.2	1.2	1.3	1.2	0.9	1.1	1.3
TURBIDITY					MACHINE	DOWN			
TOTAL PHOSPHATE			4.60			3.45			
ORTHO PHOSPHATE			1.68			0.48			
META PHOSPHATE			2.92			2.97			
STABILITY		+0.2	-0.6	+0.3	-0.6	-0.2	-0.2	+0.3	+0.2

REMARKS

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: Lachapelle Hennessey

DATE OF ANALYSIS: 27 March 1984

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 3-13-84

PARAMETER	~~HADNOT POINT~~ 511-8	~~MONTFORD POINT~~ COMPLAINT TT3327	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	7.8	8.3							
PENOLTHALEIN ALKALINITY	0	2							
METHYL ORANGE ALKALINITY	132	74							
CARBONATES AS $CaCO_3$	0	4							
BICARBONATES AS $CaCO_3$	132	70							
CHLORIDES AS C1	8	8							
HARDNESS AS $CaCO_3$	140	100							
IRON AS Fe	5.2	0.06							
FLUORIDE	0.15	0.38							
CHLORINE RESIDUAL	0.0	0.8							
TURBIDITY	>10.0								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

Coli-form: Ø Ø

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

DATE OF ANALYSIS 3/13/84

NR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 3-13-84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.4	8.2	7.7	8.6	8.1	8.9	8.6
PENOLTHALEIN ALKALINITY	6	0	0	0	6	0	8	16
METHYL ORANGE ALKALINITY	60	190	74	140	148	160	60	190
CARBONATES AS $CaCO_3$	12	0	0	0	12	0	16	32
BICARBONATES AS $CaCO_3$	48	190	74	140	136	160	44	158
CHLORIDES AS C1	10	30	8	20	10	20	8	90
HARDNESS AS $CaCO_3$	64	76	100	60	60	56	64	44
IRON AS Fe	<0.04	2.00	0.06	0.21	<0.04	<0.04	<0.04	0.06
FLUORIDE	0.45 / 0.46	0.16	0.37 / 0.42	0.18	0.11	0.10	0.36 / 0.36	0.76
CHLORINE RESIDUAL	1.1	1.2	1.0	1.4	1.4	1.2	0.9	1.3
TURBIDITY								
TOTAL PHOSPHATE		5.45			1.46			
ORTHO PHOSPHATE		2.26			0.28			
META PHOSPHATE		3.19			1.18			
STABILITY	+0.2	−0.6	0.0	−0.6	+0.2	−0.2	+0.3	+0.1

REMARKS

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

DATE OF ANALYSIS 3/13/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

MR PRICE

DATE COLLECTED 3-13-84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.4	8.2	7.7	8.6	8.1	8.9	8.6
PENOLTHALEIN ALKALINITY	6	0	0	0	6	0	8	16
METHYL ORANGE ALKALINITY	60	190	74	140	148	160	60	190
CARBONATES AS $CaCO_3$	12	0	0	0	12	0	16	32
BICARBONATES AS $CaCO_3$	48	190	74	140	136	160	44	158
CHLORIDES AS C1	10	30	8	20	10	20	8	90
HARDNESS AS $CaCO_3$	64	76	100	60	60	56	64	44
IRON AS Fe	<0.04	2.00	0.06	0.21	<0.04	<0.04	<0.04	0.06
FLUORIDE	0.45 / 0.46	0.16	0.37 / 0.42	0.18	0.11	0.10	0.36 / 0.36	0.76
CHLORINE RESIDUAL	1.1	1.2	1.0	1.4	1.4	1.2	0.9	1.3
TURBIDITY								
TOTAL PHOSPHATE		5.45			1.46			
ORTHO PHOSPHATE		2.26			0.28			
META PHOSPHATE		3.19			1.18			
STABILITY	+0.2	-0.6	0.0	-0.6	+0.2	-0.2	+0.3	+0.1

REMARKS

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. Burne

DATE OF ANALYSIS 3/13/84

NR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 6 MARCH 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.5	7.7	7.5	8.4	8.3	8.9	8.7
PENOLTHALEIN ALKALINITY	4	0	0	0	4	2	6	12
METHYL ORANGE ALKALINITY	44	184	140	14 4	16 0	164	60	180
CARBONATES AS $CaCO_3$	8	0	0	0	8	4	12	24
BICARBONATES AS $CaCO_3$	36	184	140	144	152	160	48	156
CHLORIDES AS C1	10	30	14	14	20	20	10	86
HARDNESS AS $CaCO_3$	62	74	160	52	56	52	64	50
IRON AS Fe	0.04	0.55	0.08	0.20	0.04	0.08	0.04	0.10
FLUORIDE AM	0.13		0.63				0.20	
FLUORIDE PM	0.12	0.16	0.66	0.19	0.09	0.10	0.18	0.82
CHLORINE RESIDUAL	1.0	1.3	1.0	1.0	1.0	1.0	0.9	1.3
TURBIDITY	Machine down							
TOTAL PHOSPHATE		2.40			1.10			
ORTHO PHOSPHATE		1.09			0.19			
META PHOSPHATE		1.31			0.91			
STABILITY	+0.3	-0.6	-0.2	-0.5	+0.1	0.0	+0.5	0.0

REMARKS

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 Lachapelle

DATE OF ANALYSIS: 6 MARCH 1984

MR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 28 FEB 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7	7.4	7.6	7.6	7.8	8.2	8.6	8.6
PENOLTHALEIN ALKALINITY	6	0	0	0	0	2	4	8
METHYL ORANGE ALKALINITY	60	180	106	140	160	160	66	140
CARBONATES AS $CaCO_3$	12	0	0	0	0	4	8	16
BICARBONATES AS $CaCO_3$	48	180	106	140	160	156	58	124
CHLORIDES AS C1	10	30	8	20	18	24	18	94
HARDNESS AS $CaCO_3$	64	74	140	60	64	52	78	60
IRON AS Fe	<0.04	0.48	<0.04	0.25	<0.04	0.08	<0.04	0.20
FLUORIDE	0.22 / 0.19	0.14	0.70 / 0.58	0.17	0.09	0.09	0.20 / 0.17	0.56
CHLORINE RESIDUAL	0.8	1.3	1.0	1.3	1.5	1.1	0.9	1.4
TURBIDITY	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
TOTAL PHOSPHATE		3.45			0.35			
ORTHO PHOSPHATE		1.26			0.10			
META PHOSPHATE		2.19			0.25			
STABILITY	+0.3	−0.5	−0.3	−0.4	−0.3	0.0	+0.2	+0.1

REMARKS

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 K. J. Burns Lockyerville

DATE OF ANALYSIS 28 FEB 84

TEST WELLS

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 15 Feb 84

PARAMETER	~~HADNOT POINT~~ HP #2	~~MONTFORD POINT~~ Piney Green #1	TARAWA TERRACE FC #5	ONSLOW BEACH HB #3	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	7.5	8.4	7.9	7.7				
PENOLTHALEIN ALKALINITY	0	2	0	0				
METHYL ORANGE ALKALINITY	158	138	94	202				
CARBONATES AS $CaCO_3$	0	4	0	0				
BICARBONATES AS $CaCO_3$	158	134	94	202				
CHLORIDES AS C1	8	4	4	6				
HARDNESS AS $CaCO_3$	166	56	94	168				
IRON AS Fe	1.18	1.40	1.56	3.82				
FLUORIDE	0.18	0.53	0.37	0.49				
CHLORINE RESIDUAL								
TURBIDITY	>1.0	>1.0	>1.0	>1.0				
TOTAL PHOSPHATE								
~~ORTHOPHOSPHATE~~ Static	6'	26'	18'6"	10'				
~~METAPHOSPHATE~~ Depth	91'5"	108'	117'	77'2"				
STABILITY								

REMARKS

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: Hungerford

DATE OF ANALYSIS: 16 Feb 84

MR PRICE

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 2/21/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.4	8.4	7.6	8.4	8.1	8.4	8.4
PENOLTHALEIN ALKALINITY	6	0	2	0	4	0	4	8
METHYL ORANGE ALKALINITY	40	170	60	100	160	156	84	160
CARBONATES AS $CaCO_3$	12	0	4	0	8	0	8	16
BICARBONATES AS $CaCO_3$	28	170	56	100	152	156	76	144
CHLORIDES AS C1	8	30	10	14	16	20	10	90
HARDNESS AS $CaCO_3$	56	64	88	58	56	64	84	50
IRON AS Fe	<0.04	0.65	<0.04	0.26	<0.04	0.07	<0.04	0.14
FLUORIDE A.M / P.M	0.14 / 0.13	0.15	0.83 / 0.77	0.17	0.10	0.09	0.33 / 0.26	0.64
CHLORINE RESIDUAL	1.0	1.4	1.0	1.0	1.2	1.0	0.7	1.4
TURBIDITY A.M. / P.M	<1.0	<3.0	<1.0 / <1.0	1.0	<1.0	1.0	<1.0 / <1.0	<3.0
TOTAL PHOSPHATE		3.65			162			
ORTHO PHOSPHATE		1.24			0.22			
META PHOSPHATE		2.41			1.40			
STABILITY	+0.3	-0.4	+0.1	-0.4	+0.2	-0.1	+0.2	0.0

REMARKS

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

DATE OF ANALYSIS 2/21/84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 14 Feb 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5	7.4	8.7	7.5	8.4	8.1	8.7	8.7
PENOLTHALEIN ALKALINITY	8	0	8	0	2	0	10	14
METHYL ORANGE ALKALINITY	70	186	54	154	174	176	76	250
CARBONATES AS $CaCO_3$	16	0	16	0	4	0	20	28
BICARBONATES AS $CaCO_3$	54	186	38	154	170	176	56	222
CHLORIDES AS C1	10	24	4	14	24	14	14	110
HARDNESS AS $CaCO_3$	54	96	80	66	70	66	72	54
IRON AS Fe	<0.04	0.59	<0.04	0.19	<0.04	<0.04	<0.04	0.15
FLUORIDE AM / PM	0.89 / 0.90	0.17	0.80 / 0.75	0.19	0.10	0.10	0.88 / 0.90	/ 1.21
CHLORINE RESIDUAL	1.0	1.2	1.0	1.3	1.2	1.0	1.0	1.3
TURBIDITY AM / PM	0.14	0.18	0.15 / 0.18	0.15	0.16	0.16	0.15 / 0.14	0.46
TOTAL PHOSPHATE		2.75			1.60			
ORTHO PHOSPHATE		1.10			0.22			
META PHOSPHATE		1.65			1.38			
STABILITY	+0.1	-0.4	+0.2	-0.6	+0.2	-0.1	+0.3	+0.3

REMARKS

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: [illegible] [illegible]

DATE OF ANALYSIS: 14 Feb 84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED

PARAMETER	HADNOT POINT	MONTFORD POINT	~~TARAWA TERRACE~~ Frazelle	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH			8.6						
PENOLTHALEIN ALKALINITY			4						
METHYL ORANGE ALKALINITY			176						
CARBONATES AS $CaCO_3$			8						
BICARBONATES AS $CaCO_3$			168						
CHLORIDES AS C1									
HARDNESS AS $CaCO_3$			82						
IRON AS Fe			0.30						
FLUORIDE			0.29						
CHLORINE RESIDUAL									
TURBIDITY			0.20						
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

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

DATE OF ANALYSIS

NR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 2/7/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.0	7.5	7.7	7.5	8.4	8.4	8.8	8.6
PENOLTHALEIN ALKALINITY	2	0	0	0	4	4	4	10
METHYL ORANGE ALKALINITY	44	180	120	160	170	164	64	220
CARBONATES AS $CaCO_3$	4	0	0	0	8	8	8	20
BICARBONATES AS $CaCO_3$	40	180	120	160	162	156	56	200
CHLORIDES AS C1	10	30	10	20	20	24	14	170
HARDNESS AS $CaCO_3$	50	80	136	60	56	54	70	54
IRON AS Fe	<0.04	0.57	0.08	0.22	<0.04	<0.04	<0.04	0.14
FLUORIDE	0.87 / 0.93		0.84 / 0.96				1.02 / 1.02	1.31
CHLORINE RESIDUAL	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.3
TURBIDITY	0.14	0.16	0.36 / 0.18	0.14	0.14	0.15	0.18 / 0.18	0.28
TOTAL PHOSPHATE		1.13			1.21			
ORTHO PHOSPHATE		1.00			1.02			
META PHOSPHATE		0.13			0.19			
STABILITY	+0.3	−0.5	−0.3	−0.6	0.0	0.0	+0.2	+0.1

REMARKS

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

DATE OF ANALYSIS 2/7/84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 31 JAN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.4	8.9	7.6	8.3	8.2	8.7	8.7
PENOLTHALEIN ALKALINITY	14	0	6	0	20	0	8	16
METHYL ORANGE ALKALINITY	40	186	58	150	180	170	68	168
CARBONATES AS $CaCO_3$	28	0	12	0	40	0	16	32
BICARBONATES AS $CaCO_3$	12	186	46	150	140	170	52	136
CHLORIDES AS C1	6	30	10	16	20	20	12	146
HARDNESS AS $CaCO_3$	62	74	80	74	50	62	70	70
IRON AS Fe	<0.04	0.59	<0.04	0.21	<0.04	<0.04	<0.04	0.11
FLUORIDE AM / PM	0.99 / 0.96	0.44	1.16 / 1.21	0.41	0.41	0.21	1.19 / 1.18	0.87
CHLORINE RESIDUAL	1.0	1.4	1.0	1.3	1.4	1.0	1.0	1.4
TURBIDITY AM / PM	0.18	0.18	0.16 / 0.21	0.16	0.18	0.15	0.14 / 0.16	0.21
TOTAL PHOSPHATE		2.60			1.38			
ORTHO PHOSPHATE		0.96			0.04			
META PHOSPHATE		1.64			1.34			
STABILITY	+0.2	-0.5	+0.4	-0.5	0.0	-0.1	+0.2	+0.1

REMARKS

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: [illegible]

DATE OF ANALYSIS: 31 JAN 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

BA-104

DATE COLLECTED 19 JAN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	~~ONSLOW BEACH~~	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH				7.5					
PENOLTHALEIN ALKALINITY				0					
METHYL ORANGE ALKALINITY				146					
CARBONATES AS $CaCO_3$				0					
BICARBONATES AS $CaCO_3$				146					
CHLORIDES AS C1				20					
HARDNESS AS $CaCO_3$				74					
IRON AS Fe				2.25					
FLUORIDE				0.20					
CHLORINE RESIDUAL									
TURBIDITY									
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

Chemical out of 1-20-84

Fountain H2O Used to Flush Tank H2O to waste & clean up

COLI-FORM Ø

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 Haines Henneycutt

DATE OF ANALYSIS 19 JAN 84

MR PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 1-24-84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.4	8.7	7.7	8.3	8.5	9.1	8.6
PENOLTHALEIN ALKALINITY	2	0	2	0	0	8	6	4
METHYL ORANGE ALKALINITY	60	190	54	158	172	170	56	190
CARBONATES AS $CaCO_3$	4	0	4	0	0	16	12	8
BICARBONATES AS $CaCO_3$	56	190	50	158	172	154	44	182
CHLORIDES AS C1	10	70	10	20	20	50	18	160
HARDNESS AS $CaCO_3$	80	114	80	70	60	60	60	66
IRON AS Fe	<0.04	1.04	<0.04	0.10	0.05	<0.04	0.05	0.15
FLUORIDE	1.03 / —	—	0.95 / —	—	—	—	0.92 / —	—
CHLORINE RESIDUAL	1.0	1.4	1.0	1.3	1.2	1.1	1.0	1.2
TURBIDITY	0.60	1.0	0.40 / 0.40	0.40	0.12	0.20	0.60 / 0.60	0.80
TOTAL PHOSPHATE		2.05			1.18			
ORTHO PHOSPHATE		1.46			0.16			
META PHOSPHATE		0.59			1.02			
STABILITY	+0.4	−0.5	+0.1	−0.4	0.0	+0.2	+0.4	+0.1

REMARKS

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

DATE OF ANALYSIS 1-24-84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

TT2246

DATE COLLECTED 13 JAN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	~~TARAWA TERRACE~~	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH			8.9						
PENOLTHALEIN ALKALINITY			6						
METHYL ORANGE ALKALINITY			30						
CARBONATES AS $CaCO_3$			12						
BICARBONATES AS $CaCO_3$			18						
CHLORIDES AS C1			14						
HARDNESS AS $CaCO_3$			70						
IRON AS Fe									
FLUORIDE			0.88						
CHLORINE RESIDUAL			1.0						
TURBIDITY									
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

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 [illegible]

DATE OF ANALYSIS 13 JAN 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 17 JAN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7	7.4	8.7	7.5	8.5	8.0	8.8	8.7
PENOLTHALEIN ALKALINITY	8	0	4	0	6	0	6	12
METHYL ORANGE ALKALINITY	66	164	50	164	174	166	62	170
CARBONATES AS $CaCO_3$	16	0	8	0	12	0	12	24
BICARBONATES AS $CaCO_3$	50	164	42	164	162	166	50	146
CHLORIDES AS C1	10	50	10	20	20	24	10	94
HARDNESS AS $CaCO_3$	70	68	66	80	50	62	66	62
IRON AS Fe	<0.04	2.55	<0.04	0.14	<0.04	<0.04	<0.04	0.22
FLUORIDE AM/PM	0.99/1.07	0.15	0.83/0.87	0.19	0.10	0.10	0.88/0.88	0.73
CHLORINE RESIDUAL	1.0	1.0	1.0	1.3	1.2	1.0	0.9	1.4
TURBIDITY AM/PM	0.2	2.0	0.7/0.8	0.6	0.4	0.4	0.4/0.4	1.6
TOTAL PHOSPHATE		4.18			2.17			
ORTHO PHOSPHATE		2.37			0.24			
META PHOSPHATE		1.81			1.93			
STABILITY	+0.2	-0.7	+0.2	-0.6	+0.1	-0.2	+0.3	+0.2

REMARKS

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: Henegutt Lachapelle

DATE OF ANALYSIS: 17 JAN 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 10 JAN 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.4	8.7	7.6	8.4	8.3	8.8	9.0
PENOLTHALEIN ALKALINITY	10	0	6	0	6	0	6	34
METHYL ORANGE ALKALINITY	54	186	50	102	178	170	64	202
CARBONATES AS $CaCO_3$	20	0	12	0	12	0	12	68
BICARBONATES AS $CaCO_3$	34	186	38	102	166	170	52	134
CHLORIDES AS C1	8	38	8	14	20	20	12	140
HARDNESS AS $CaCO_3$	44	70	74	64	42	48	70	50
IRON AS Fe	<0.04	0.60	<0.04	0.09	<0.04	<0.04	0.05	0.21
FLUORIDE AM/PM	1.06/1.01	0.16	0.95/1.00	0.18	0.09	0.09	0.85/0.83	0.88
CHLORINE RESIDUAL	1.0	1.4	1.1	1.5	1.5	1.0	0.9	1.4
TURBIDITY AM/PM	0.2	0.9	0.4/0.4	0.4	0.5	0.4	0.9/0.6	0.89
TOTAL PHOSPHATE		2.60			2.52			
ORTHO PHOSPHATE		1.09			0.35			
META PHOSPHATE		1.51			2.17			
STABILITY	+0.3	-0.8	+0.1	-0.6	0.0	-0.1	+0.4	+0.1

REMARKS

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: Kenneycutt Lachapelle

DATE OF ANALYSIS: 10 JAN 84

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 3 JAN 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.3	8.7	7.6	8.1	8.1	8.6	8.9
PENOLTHALEIN ALKALINITY	6	0	6	0	4	2	4	22
METHYL ORANGE ALKALINITY	54	190	62	160	180	160	70	214
CARBONATES AS $CaCO_3$	12	0	12	0	8	4	8	44
BICARBONATES AS $CaCO_3$	42	190	50	160	172	156	62	170
CHLORIDES AS C1	10	50	10	16	20	26	18	160
HARDNESS AS $CaCO_3$	62	58	80	72	58	52	70	54
IRON AS Fe	<0.04	0.36	<0.04	0.06	<0.04	0.06	<0.04	0.06
FLUORIDE AM / PM	1.02 / 0.97	0.16	1.05 / 0.97	0.18	0.09	0.10	0.98 / 0.82	0.84
CHLORINE RESIDUAL	1.0	1.5	1.1	1.2	1.2	1.0	0.9	1.3
TURBIDITY AM / PM	0.2	0.6	1.0 / 0.6	0.5	0.4	0.4	0.2 / 0.4	0.8
TOTAL PHOSPHATE		2.42			2.70			
ORTHO PHOSPHATE		1.04			0.19			
META PHOSPHATE		1.38			1.51			
STABILITY	+0.2	-0.6	+0.3	-0.4	-0.1	-0.1	+0.2	+0.2

REMARKS

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: Lochopelle Henegquet

DATE OF ANALYSIS: 3 JAN 1984

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

MR Price

DATE COLLECTED 20 DEC 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5	7.4	8.5	7.7	8.3	8.3	8.9	7.9
PENOLTHALEIN ALKALINITY	2	0	2	0	2	2	4	0
METHYL ORANGE ALKALINITY	32	176	48	142	170	156	54	160
CARBONATES AS $CaCO_3$	4	0	4	0	4	4	8	0
BICARBONATES AS $CaCO_3$	28	176	44	142	164	152	46	160
CHLORIDES AS C1	10	20	10	14	16	20	10	130
HARDNESS AS $CaCO_3$	54	60	84	60	62	86	62	92
IRON AS Fe	<0.04	0.55	<0.04	0.15	<0.04	<0.04	<0.04	0.10
FLUORIDE AM/PM	1.00/0.99	0.18	0.46/0.39	0.19	0.11	0.11	1.03/1.08	0.71
CHLORINE RESIDUAL	1.0	1.3	1.1	1.3	1.4	1.0	0.9	1.4
TURBIDITY	0.34	0.58	0.58/0.66	0.38	0.52	0.38	0.52/0.38	0.36
TOTAL PHOSPHATE		3.10			1.26			
ORTHO PHOSPHATE		1.30			0.38			
META PHOSPHATE		1.80			0.88			
STABILITY	-0.1	-0.5	+0.1	-0.2	+0.1	+0.2	+0.3	-0.1

REMARKS

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

Hunycutt

DATE OF ANALYSIS 20 DEC 83

WRP Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 13 DEC 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7	7.5	8.7	7.6	8.3	8.3	8.8	8.8
PENOLTHALEIN ALKALINITY	8	0	4	0	2	0	6	10
METHYL ORANGE ALKALINITY	64	186	54	138	176	154	64	100
CARBONATES AS $CaCO_3$	16	0	8	0	4	0	12	20
BICARBONATES AS $CaCO_3$	48	186	46	138	172	154	52	80
CHLORIDES AS C1	10	26	10	12	18	20	12	66
HARDNESS AS $CaCO_3$	70	44	76	62	56	42	70	64
IRON AS Fe	<0.04	1.34	<0.04	0.09	<0.04	0.14	<0.04	0.20
FLUORIDE AM / PM	0.82 / 0.79	0.15	0.58 / 0.51	0.17	0.09	0.08	0.91 / 0.84	0.34
CHLORINE RESIDUAL	1.0	1.3	1.2	1.4	1.3	0.6	1.0	1.3
TURBIDITY								
TOTAL PHOSPHATE		3.10			1.62			
ORTHO PHOSPHATE		1.76			0.32			
META PHOSPHATE		1.34			1.30			
STABILITY	+0.3	-0.04	+0.3	-0.6	+0.2	0.0	+0.4	+0.3

REMARKS

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: Henegeitt & Burns

DATE OF ANALYSIS: 13 DEC 83

WATER

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 7 DEC 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	BLDG # 424
PH									7.255
PENOLTHALEIN ALKALINITY									0
METHYL ORANGE ALKALINITY									168
CARBONATES AS $CaCO_3$									0
BICARBONATES AS $CaCO_3$									168
CHLORIDES AS C1									32
HARDNESS AS $CaCO_3$									46
IRON AS Fe									0.39
FLUORIDE									0.1364
CHLORINE RESIDUAL									1.4
TURBIDITY									NOT AVAIL
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS COLIFORM NEGATIVE

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 Monahan

DATE OF ANALYSIS 7 Dec 83

WRP

MR. PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 6 DEC 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	BLDG 934
PH	8.8	7.3	9.0	7.5	8.3	8.4	8.8	8.7	7.3
PENOLTHALEIN ALKALINITY	4	0	4	0	0	4	4	16	
METHYL ORANGE ALKALINITY	52	184	52	154	174	146	66	154	
CARBONATES AS $CaCO_3$	8	0	8	0	0	8	8	32	
BICARBONATES AS $CaCO_3$	44	184	44	154	174	138	58	122	
CHLORIDES AS C1	8	22	6	14	20	28	16	108	
HARDNESS AS $CaCO_3$	64	54	66	80	56	44	76	72	
IRON AS Fe *	<0.04	0.57	0.05	0.16	<0.04	0.21	0.08	0.14	1.03
FLUORIDE AM/PM	1.01/1.02	0.15	0.83/0.64	0.17	0.09	0.08	0.91/0.85	0.60	
CHLORINE RESIDUAL	1.0	1.4	1.0	1.2	1.2	1.2	0.9	1.3	
TURBIDITY			MACHINE INOPERATIVE						
TOTAL PHOSPHATE **		1.62			1.62				
ORTHO PHOSPHATE **		1.30			0.28				
META PHOSPHATE **		0.32			1.34				
STABILITY	+0.3	-0.6	+0.4	-0.5	+0.1	+0.1	+0.3	+0.2	

REMARKS

ONSLOW BEACH POND pH8.4

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 Monahan * + Bvens

DATE OF ANALYSIS ** 6DEC83 + 7DEC83

(COMPLAINT)

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

2983

DATE COLLECTED 11/23/83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH			9.3						
PENOLTHALEIN ALKALINITY			10						
METHYL ORANGE ALKALINITY			34						
CARBONATES AS $CaCO_3$			20						
BICARBONATES AS $CaCO_3$			14						
CHLORIDES AS C1			24						
HARDNESS AS $CaCO_3$			56						
IRON AS Fe									
FLUORIDE			1.12						
CHLORINE RESIDUAL			1.0						
TURBIDITY			0.28						
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

Coliform: Ø

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

DATE OF ANALYSIS 11/24/83

6DEC83

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	BLDG 934
PH	8.8	7.3	9.0	7.5	8.3	8.4	8.8	8.7	7.3
PENOLTHALEIN ALKALINITY	4	0	4	0	0	4	4	16	
METHYL ORANGE ALKALINITY	52	184	52	154	174	146	66	154	
CARBONATES AS $CaCO_3$	8	0	8	0	0	8	8	32	
BICARBONATES AS $CaCO_3$	44	184	44	154	174	138	58	122	
CHLORIDES AS C1	8	22	6	14	20	28	16	108	
HARDNESS AS $CaCO_3$	64	54	66	80	56	44	76	72	
IRON AS Fe *	<0.04	0.57	0.05	0.16	<0.04	0.21	0.08	0.14	1.03
FLUORIDE AM/PM	1.01/1.02	0.15	0.83/0.64	0.17	0.09	0.08	0.91/0.85	0.60	
CHLORINE RESIDUAL	1.0	1.4	1.0	1.2	1.2	1.2	0.9	1.3	
TURBIDITY			MACHINE	INOPERATIVE					
TOTAL PHOSPHATE **		1.62			1.62		Great		
ORTHO PHOSPHATE **		1.30			0.28				
META PHOSPHATE **		0.32			1.34				
STABILITY	+0.3	-0.6	+0.4	-0.5	+0.1	+0.1	+0.3	+0.2	

REMARKS: ONSLOW BEACH POND pH8.4

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: Monahan * + Bvens

DATE OF ANALYSIS **: 6DEC83 + 7DEC83

WRP MR. PRICE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 29 NOV 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD X	NEW RIVER	REPEAT HOLC. BLVD
PH	8.8	7.5	8.6	7.7	8.4	8.3	8.7	8.8	8.6
PENOLTHALEIN ALKALINITY	2	0	2	0	6	6	4	14	4
METHYL ORANGE ALKALINITY	32	186	56	154	176	146	90	200	76
CARBONATES AS $CaCO_3$	4	0	4	0	12	12	8	28	8
BICARBONATES AS $CaCO_3$	28	186	52	154	164	134	82	172	68
CHLORIDES AS C1	8	54	10	16	20	28	18	92	18
HARDNESS AS $CaCO_3$	56	112	98	66	68	94	80	70	68
IRON AS Fe	<0.04	0.81	<0.04	0.21	<0.04	0.08	5.76	0.10	<0.04
FLUORIDE AM/PM	0.98/0.98	0.14	1.05/1.11	0.18	0.10	0.09	0.80/0.78	0.88	0.78
CHLORINE RESIDUAL	1.0	1.2	1.1	1.0	1.2	1.1	0.9	1.3	NR
TURBIDITY			MACHINE DOWN						
TOTAL PHOSPHATE		0.69			1.46				
ORTHO PHOSPHATE		0.69			0.16				
META PHOSPHATE		0.00			1.30				
STABILITY	+0.2	−0.4	+0.2	−0.4	+0.1	+0.1	+0.4	+0.1	+0.2

REMARKS

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 + Monahan

DATE OF ANALYSIS 29 Nov 83

Mr Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 22 NOV 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.1	7.4	9 .1	7.5	8.4	8.4	9.0	8.6
PENOLTHALEIN ALKALINITY	6	0	6	0	6	6	6	8
METHYL ORANGE ALKALINITY	5 0	186	50	158	17 4	162	58	158
CARBONATES AS $CaCO_3$	12	0	12	0	12	12	12	16
BICARBONATES AS $CaCO_3$	38	186	38	158	162	150	46	142
CHLORIDES AS C1	10	32	1 2	16	20	24	16	80
7 HARDNESS AS $CaCO_3$	60	70	72	68	54	54	60	56
IRON AS Fe	0.04	0.80	0.05	0.20	0.07	0.08	0.08	0.17
FLUORIDE AM	0.8 5		0.48				0.76	
FLUORIDE PM	0.94	0.14	0.42	0.15	0.08	0.07	0.87	0.60
CHLORINE RESIDUAL	1.0	1.3	1.0	1.3	1.2	1.0	1.0	1.4
TURBIDITY AM			0.24				0.28	
TURBIDITY PM	0.20	0.4 4	0.44	0.22	0.24	0.26	0.30	0.92
TOTAL PHOSPHATE		1.35			2.00			
ORTHO PHOSPHATE		1.21			0.41			
META PHOSPHATE		0.14			1.59			
STABILITY	+0.3	-0.5	+0.4	-0.6	+0.1	+0.1	+0.4	+0.1

REMARKS

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: Lachapelle

DATE OF ANALYSIS: 22 NOV 1983

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 15 NOV 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	Complaint TT 3101
PH	8.9	7.4	9 .1	7.4	8.4	8.5	9 .0 AM 9.1 PM	8.9	8.4
PENOLTHALEIN ALKALINITY	6	0	4	0	6	4	6	12	2
METHYL ORANGE ALKALINITY	56	194	3 8	156	17 0	138	56	208	66
CARBONATES AS $CaCO_3$	12	0	8	0	12	8	12	24	4
BICARBONATES AS $CaCO_3$	44	19 4	30	156	158	130	4 4	184	62
CHLORIDES AS C1	10	40	12	16	2 0	28	12	114	10
HARDNESS AS $CaCO_3$	6 6	52	6 8	6 8	56	44	60	4 4	90
IRON AS Fe	0.04	0.4 5	0.04	0.1 5	0.04	0.06	0.04	0.08	0.04
FLUORIDE AM	0.12		0 .82				0.18		
FLUORIDE PM	0.13	0.15	0 .90	0 .18	0.09	0.09	0.14	0.87	0.90
CHLORINE RESIDUAL	1.0	1.1	1.3	1.2	1.2	1.0	0.9	1.2	0.6
TURBIDITY AM			0 .58				0 .12		
TURBIDITY PM	0.26	0 .37	0 .32	0 .12	0.12	0.16	0.4 2	0.52	0.62
TOTAL PHOSPHATE		1.75			0 .82				
ORTHO PHOSPHATE		1.10			0.13				
META PHOSPHATE		0 .65			0 .69				
STABILITY	+0.3	-0.6	+0.3	-0.6	+0.1	+0.1	+0.5	+0.2	

REMARKS

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: Lachapelle & Burns

DATE OF ANALYSIS: 15 NOV 1983

Mr Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 8 NOV 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH AM/PM	8.9	7.4	8.2	7.5	8.4	8.4	8.9 / 8.9	8.8
PENOLTHALEIN ALKALINITY	4	0	2	0	6	6	6	16
METHYL ORANGE ALKALINITY	56	194	100	160	170	146	62	226
CARBONATES AS $CaCO_3$	8	0	4	0	12	12	12	32
BICARBONATES AS $CaCO_3$	48	194	96	160	158	134	50	194
CHLORIDES AS C1	8	38	8	14	18	22	12	118
HARDNESS AS $CaCO_3$	60	68	60	64	70	56	62	50
IRON AS Fe	<0.04	0.47	0.15	0.11	<0.04	0.06	<0.04	0.06
FLUORIDE AM/PM	0.15 / 0.13	0.14	0.61 / 0.57	0.17	0.08	0.08	0.95 / 0.89	0.95
CHLORINE RESIDUAL	1.0	1.4	1.0	1.3	1.2	1.1	0.9	1.3
TURBIDITY AM/PM	0.16	0.30	0.22 / 1.65	0.18	0.20	0.18	0.12 / 0.18	0.38
TOTAL PHOSPHATE		1.92			1.09			
ORTHO PHOSPHATE		1.35			0.28			
META PHOSPHATE		0.57			0.81			
STABILITY	+0.4	-0.5	+0.1	-0.6	+0.2	+0.1	+0.3	+0.2

REMARKS

out of Fluoride

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: Tachzelle Hunzycutt

DATE OF ANALYSIS: 8 NOV 83

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 11-1-83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5	7.3	9.1	7.5	8.2	8.2	8.8	8.5
PENOLTHALEIN ALKALINITY	4	0	6	0	6	6	8	10
METHYL ORANGE ALKALINITY	62	196	40	162	174	160	60	178
CARBONATES AS $CaCO_3$	8	0	12	0	12	12	16	20
BICARBONATES AS $CaCO_3$	54	196	28	162	162	148	44	158
CHLORIDES AS C1	8	38	12	16	16	24	12	86
HARDNESS AS $CaCO_3$	64	56	60	64	52	50	60	54
IRON AS Fe	<0.04	0.41	<0.04	0.15	<0.04	0.07	<0.04	0.07
FLUORIDE AM / PM	0.89 / 0.94	0.18	1.01 / 1.08	0.18	0.09	0.09	0.91 / 0.90	0.68
CHLORINE RESIDUAL	1.0	1.4	1.0	1.3	1.2	1.2	0.9	1.3
TURBIDITY AM / PM	0.37	0.24	1.00 / 0.76	0.18	0.16	0.21	0.18 / 0.14	0.20
TOTAL PHOSPHATE		1.18			1.32			
ORTHO PHOSPHATE		1.10			0.16			
META PHOSPHATE		0.08			1.16			
STABILITY	+0.1	−0.6	+0.2	−0.6	0.0	−0.1	+0.3	+0.1

REMARKS

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 Lachapelle

DATE OF ANALYSIS 11-1-83

HR CONC

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 25 October 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.3	8.6	7.3	8.4	8.3	8.9	8.5
PENOLTHALEIN ALKALINITY	6	0	8	0	6	6	6	10
METHYL ORANGE ALKALINITY	50	192	68	160	170	158	62	154
CARBONATES AS $CaCO_3$	12	0	16	0	12	12	12	20
BICARBONATES AS $CaCO_3$	38	192	52	160	158	146	50	134
CHLORIDES AS C1	6	40	8	16	14	22	8	74
HARDNESS AS $CaCO_3$	56	78	86	64	58	52	62	66
IRON AS Fe	<0.04	0.50	<0.04	0.10	<0.04	<0.04	<0.04	0.08
FLUORIDE	1.02 / 1.06	0.19	0.72 / 0.56	0.19	0.11	0.11	1.04 / 0.99	0.56
CHLORINE RESIDUAL	1.0	1.6	1.3	1.4	1.3	1.0	1.1	1.3
TURBIDITY	0.18	0.44	0.23 / 0.44	0.20	0.18	0.17	0.18 / 0.18	0.24
TOTAL PHOSPHATE		4.60			2.00			
ORTHO PHOSPHATE		2.26			.69			
META PHOSPHATE		2.34			1.31			
STABILITY	+0.3	−0.4	+0.3	−0.7	+0.1	+0.1	+0.3	+0.2

REMARKS

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: LACHAPELLE, BUENS & MONAHAN

DATE OF ANALYSIS: 25 OCT 83

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

H.B.

DATE COLLECTED 10-18-83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.7	7.3	9.0	7.4	8.0	8.3	8.8	8.6	
PENOLTHALEIN ALKALINITY	6	0	6	0	2	4	6	8	
METHYL ORANGE ALKALINITY	66	194	52	160	172	154	60	122	
CARBONATES AS $CaCO_3$	12	0	12	0	4	8	12	16	
BICARBONATES AS $CaCO_3$	54	194	40	160	168	146	48	106	
CHLORIDES AS C1	8	38	10	20	18	22	12	86	
HARDNESS AS $CaCO_3$	76	74	72	70	58	52	62	54	
IRON AS Fe	<0.04	0.38	<0.04	0.15	<0.04	<0.04	<0.04	0.12	
FLUORIDE AM / PM	1.05 / 1.10	0.17	0.93 / 1.12	0.19	0.10	0.10	0.48 / 0.99	0.51	
CHLORINE RESIDUAL	0.9	1.4	1.1	1.4	1.3	1.1	1.0	1.3	
TURBIDITY AM / PM	0.22	0.32	0.10 / 0.32	0.26	0.18	0.20	0.32 / 0.24	0.46	
TOTAL PHOSPHATE		2.18			0.96				
ORTHO PHOSPHATE		1.17			0.41				
META PHOSPHATE		1.01			0.55				
STABILITY	+0.3	−0.6	+0.4	−0.6	−0.1	0.0	+0.3	+0.1	

REMARKS

Looks Good

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 Lachapelle + Burns

DATE OF ANALYSIS 10-18-83

Mr. Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 11 Oct 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.6	7.3	8.2	7.4	7.9	8.4	8.9	8.6
PENOLTHALEIN ALKALINITY	4	0	2	0	0	6	7	12
METHYL ORANGE ALKALINITY	68	194	80	162	176	154	70	178
CARBONATES AS $CaCO_3$	8	0	4	0	0	12	14	24
BICARBONATES AS $CaCO_3$	60	194	76	162	176	142	56	154
CHLORIDES AS C1	10	38	10	20	18	24	14	118
HARDNESS AS $CaCO_3$	80	94	98	66	60	46	68	54
IRON AS Fe	<0.04	1.20	<0.04	0.07	<0.04	<0.04	<0.04	0.05
FLUORIDE AM/PM	1.02/1.03	0.18	1.03/1.00	0.20	0.11	0.10	0.96/0.97	0.69
CHLORINE RESIDUAL	1.0	1.1	1.0	1.1	1.4	1.0	1.0	1.3
TURBIDITY AM/PM	0.16	0.77	0.18/0.19	0.22	0.14	0.15	0.19/0.25	0.32
TOTAL PHOSPHATE		2.95			4.05			
ORTHO PHOSPHATE		1.62			0.62			
META PHOSPHATE		1.33			3.43			
STABILITY	+0.2	-0.5	0.0	-0.6	-0.2	+0.1	+0.4	+0.1

REMARKS

* Softener Out — Per Phoncon w/ Stanley Millen - Leader

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: Lafayette Monahan

DATE OF ANALYSIS: 11 Oct 1983

Price

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 10-4-83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.6	7.3	8.9	7.3	8.0	8.3	8.8	8.6
PENOLTHALEIN ALKALINITY	4	0	6	0	0	6	6	10
METHYL ORANGE ALKALINITY	64	190	48	160	154	156	66	170
CARBONATES AS $CaCO_3$	8	0	12	0	0	12	12	20
BICARBONATES AS $CaCO_3$	56	190	36	160	154	144	54	150
CHLORIDES AS C1	10	34	10	16	18	26	12	114
HARDNESS AS $CaCO_3$	70	56	66	76	68	48	68	60
IRON AS Fe	<0.04	0.41	<0.04	0.06	<0.04	<0.04	1.35 *	0.09
FLUORIDE AM / PM	1.04 / 1.09	0.18	0.48 / 1.18	0.21	0.12	0.10	0.99 / 0.98	0.72
CHLORINE RESIDUAL	1.0	1.3	1.0	1.4	1.2	1.0	0.9	1.3
TURBIDITY AM / PM	0.34	0.56	0.26 / 0.36	0.18	0.18	0.18	0.18 / 1.90	0.34
TOTAL PHOSPHATE		2.60			3.10			
ORTHO PHOSPHATE		1.26			0.35			
META PHOSPHATE		1.34			2.75			
STABILITY	+0.3	-0.6	+0.3	-0.7	-0.1	0.0	+0.3	+0.2

REMARKS *

Repeat Sample on HB the Fe read <0.04 10-5-83

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 Lafayette + Burns

DATE OF ANALYSIS 10-4-83