11331
NREAD
3 Sep 87

Mr. John McFadyen
Water Supply Branch
Division of Health Services
North Carolina Department of
Human Resources
Post Office Box 2091
Raleigh, North Carolina 27602

Dear Mr. McFadyen:

Enclosed are the completed Department of Health Forms (DHS 1942 2/74) for all water treatment plants aboard Marine Corps Base, Camp Lejeune for the period 1-31 August 1987. Also enclosed are the weekly Chemical Analysis Forms (MCBCL 11330/3 Rev 3-82) for the same period, as requested in the 25 October 1982 letter from Mr. Charles Rundgren of your office.

The analysis is run by the Environmental Chemistry and Microbiology Laboratory, located in the Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities. Ms. Betz, Supervisory Chemist, telephone (919) 451-5977, is the point of contact in this matter.

Sincerely,

JULIAN I. WOOTEN
Director, Natural Resources Division
By direction of the Commanding General

Encls: (1) Dept of Health Forms
(2) Chemical Analysis Forms

Copy to:
LANTNAVFACENGCOM (Code 114)

Blind copy to:
BMO (Attn: UTIL DIR)
Supvy Chem (2)

Writer/Typist Betz/Guarodo
Date Typed 2 Sep 87
Word Processor Number 11331

Month AUGUST ONSLOW BEACH WATER TREATMENT PLANT AT Camp Lejeune Method Code: 303
Year 1987 REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES Contaminant Code: 300
Serial # 04-67-048 N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP
1																										
2																										
3	7																									
4	4TH															0	2	0	0							35.
5																										
6																										
7																										
8																										
9																										
10	7																									
11	11TH															0	2	0	0							35.
12																										
13																										
14																										
15																										
16																										
17																										
18	7 18TH															0	2	0	0							35.
19																										
20																										
21																										
22																										
23																										
24																										
25	7 25TH															0	2	0	0							35.
26																										
27																										
28																										
29																										
30																										
31																										
MF MEDIA / TPC MEDIA			BBL mEndo			BACTERIAL DENSITY		ARITH. MEAN / GEO. MEAN								0 / 1	DIST. SYSTEM	TOTAL NO. SAMPLES								
																		SAMPLES EXCEEDING 3/50. 4/100. 7/200. 13/500ml								

ENCLOSURE III

LAB ID # 37807

W. [illegible] # 1087-W

Month AUGUST
Year 1987

COURTHOUSE BAY WATER TREATMENT PLANT AT Camp Lejeune

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES

Method Code: 303
Contaminant Code: 3000

Serial # 04-67-047

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																										
2																										
3																										
4	7 4 TH															0	4	0 0	0 0							35.4
5																										
6																										
7																										
8																										
9																										
10																										
11	7 11 TH															0	4	0 0	0 1	0 1						35.0
12																										
13																										
14																										
15																										
16																										
17																										
18	7 18 TH															0	4	1 0	1 0	0 0						35.
19																										
20																										
21																										
22																										
23																										
24	7 25 TH															0	4	0 0	0 1				0 1			35.
25																										
26																										
27																										
28																										
29																										
30																										
31																										

MF MEDIA: RBL mEndo
TPC MEDIA:
BACTERIAL DENSITY
ARITH. MEAN
GEO. MEAN
DIST. SYSTEM
TOTAL NO. SAMPLES: 76
SAMPLES EXCEEDING 3/50 4/100 7/200 13/500 1: 0

LAB ID # 37807

GROUND WATER # 1087-W

Month AUGUST — CAMP JOHNSON — WATER TREATMENT PLANT AT Camp Lejeune — Method Code: 303

Year 1987 — REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES — Contaminant Code: 3000

Serial # 04-67-045 — N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1	2	3	4	5	REPEAT SAMPLES: COLIFORMS per 100 ml.			INCUBATOR TEMP.
1																										
2																										
3																										
4TH																0	2	0	0							35.4
5																										
6																										
7																										
8																										
9																										
10																										
11TH																0	2	0	0							35.0
12																										
13																										
14																										
15																										
16																										
17																										
18TH																0	2	0	1	0						35.2
19																										
20																										
21																										
22																										
23																										
24																										
25TH																0	2	0	0							35.2
26																										
27																										
28																										
29																										
30																										
31																										

MF MEDIA: BBL mEndo — BACTERIAL DENSITY — ARITH. MEAN — GEO. MEAN

TPC MEDIA

0 / 1 — DIST. SYSTEM — TOTAL NO. SAMPLES 8 — SAMPLES EXCEEDING 3/50. (4/100). 7/200. 13/500ml 0

LAB ID # 37807

4087-W

Month AUGUST

Year 1987

TARAWA TERRACE WATER TREATMENT PLANT AT Camp Lejeune

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES

Method Code: 303
Contaminant Code: 3000

Serial # 04-67-044

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																										
2																										
3																										
4	7 4TH															0	4	0 0	0 0							35.4
5																										
6																										
7																										
8																										
9																										
10																										
11	7 11TH															0	4	0 0		0 0						35.0
12																										
13																										
14																										
15																										
16																										
17																										
18	7 18TH															0	4	0 0			0 0					35.2
19																										
20																										
21																										
22																										
23																										
24																										
25	7 25TH															0	4	0 0					0 0			35.2
26																										
27																										
28																										
29																										
30																										
31																										

MF MEDIA: BBL mEndo
TPC MEDIA:

BACTERIAL DENSITY

ARITH. MEAN
GEO. MEAN

0
1

DIST. SYSTEM

TOTAL NO. SAMPLES: 16
SAMPLES EXCEEDING 0/50. 4/100. 7/200. 13/500: 0

LAB ID # 37807

Well # A087-W

Month AUGUST MARINE CORPS AIR STATION WATER TREATMENT PLANT AT Camp Lejeune Method Code: 303

Year 1987 REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES Contaminant Code: 3000

Serial # 04-67-042 N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																											
2																											
3																											
4	7/4TH															0	7	0 0	0 0	0 0	0						35.4
5																											
6																											
7																											
8																											
9																											
10																											
11	7/11TH															0	7	0 0	1 0	0		0	0 0				35.0
12																											
13																											
14																											
15																											
16																											
17																											
18	7/18TH															0	7	0 0 0	0 0	0 0							35.2
19																											
20																											
21																											
22																											
23																											
24																											
25	7/25TH															0	7	0 0 0	1 0	0 0							35.2
26																		0	0								
27																											
29																											
29																											
30																											
31																											

MF MEDIA: BBL mEndo — BACTERIAL DENSITY — ARITH. MEAN — GEO. MEAN

TPC MEDIA

DIST. SYSTEM: 6 / 1

TOTAL NO. SAMPLES: 28

SAMPLES EXCEEDING 3/50. (4/100). 7/200. 13/500ml: 0

LAB ID # 37807

Month AUGUST Year 1987 — HOLCOMB BLVD — WATER TREATMENT PLANT AT Camp Lejeune — Method Code: 303 — Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-043

DATE	RAW WATER COLIFORMS (MFF) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFF COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFF COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFF): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFF): NO. OF SAMPLES EXAMINED	COLIFORMS (MFF) 1: COLIFORMS per 100 ml.	COLIFORMS (MFF) 2: COLIFORMS per 100 ml.	COLIFORMS (MFF) 3: COLIFORMS per 100 ml.	COLIFORMS (MFF) 4: COLIFORMS per 100 ml.	COLIFORMS (MFF) 5: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																										
2																										
3																										
4 7 4TH																0	7	0 0	0 0	0 0	0	0				35.4
5																										
6																										
7																										
8																										
9																										
10 7 11TH																0	7	0 0	0 0	0 0	0	0				35
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18 7 18TH																0	7.	0 0	. 0	0 0	0	0				35.
19																										
20																										
21																										
22																										
23																										
24																										
25 7 25TH																0	7	0 0	1 0	0 0	0		0 0			35.
26																										
27																										
28																										
29																										
30																										
31																										

MF MEDIA: mEndo — BACTERIAL DENSITY — ARITH. MEAN — GEO. MEAN — DIST. SYSTEM: 0 — TOTAL NO. SAMPLES: 28

TPC MEDIA — SAMPLES EXCEEDING 3/50. 4/100. 7/200. 13/500ml: 0

LAB ID # 37807

DEPT GRADE B-WELL # 4087-W

Month AUGUST RIFLE RANGE WATER TREATMENT PLANT AT Camp Lejeune Method Code: 303

Year 1987 REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES Contaminant Code: 300

Serial # 04-67-046 N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																										
2																										
3																										
4	4 TH															0	3	0 0	0 1							35.
5																										
6																										
7																										
8																										
9																										
10																										
11	11 TH															0	3	0 0	1 0							35.
12																										
13																										
14																										
15																										
16																										
17																										
18	18 TH															0	3.	0 0		0 1						35.
19																										
20																										
21																										
22																										
23																										
24																										
25	25 TH															0	3	0 0		1 0						35.
26																										
27																										
28																										
29																										
30																										
31																										

MF MEDIA: RBL mEndo BACTERIAL DENSITY ARITH. MEAN TOTAL NO. SAMPLES 12

TPC MEDIA GEO. MEAN DIST. SYSTEM 0 1 SAMPLES EXCEEDING 3/50 4/100 7/200. 13/500ml 0

LAB ID # 37807 CAMP LEJEUNE-WETC # 4087-W

Month AUGUST — HADNOT POINT — WATER TREATMENT PLANT AT Camp Lejeune — Method Code: 303

Year 1987 — REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES — Contaminant Code: 3000

Serial # 04-67-041 — N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																										
2																										
3																										
4	47M															0	9	0 0	0 0	0 0	0 0	0				35.4
5																										
6																										
7																										
8																										
9																										
10	7/11 TH																									
11																0	9	0 0	0 0	0 0	0 0	0				35.
12																										
13																										
14																										
15																										
16																										
17	7/18 TH																									
18																0	9.	0 0	0 0	0 0	0 0	0				35.
19																										
20																										
21																										
22																										
23																										
24																										
25	7/25 TH															0	9	0 0	0 0	0	0 0					35.
26																		0 0								
27																										
28																										
29																										
30																										
31																										

MF MEDIA: BBL mEndo — BACTERIAL DENSITY — ARITH. MEAN — GEO. MEAN — DIST. SYSTEM: 0 / 1 — TOTAL NO. SAMPLES: 36

TPC MEDIA — SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500: 0

LAB ID # 37807 — TEST GRADE B-WELL # 4087-W

ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT

CHEMICAL ANALYSIS - WATER TREATMENT PLANTS

MCBCL 11330/3 (REV 7-87)

DATE COLLECTED: 8-4-87

DATE(S) ANALYZED: 8-4-87

PARAMETER (UNITS) \ PLANT	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLOW BEACH 04-67-048			
pH-LABORATORY	9.0	8.5	8.6	7.9	8.3	7.5			
STABILITY	+0.9	+0.1	+0.5	-0.4	-0.1	-0.7			
PHENOLTHALEIN ALKALINITY (PPM)	8	12	4	0	0	0			
METHYL ORANGE ALKALINITY (PPM)	54	152	60	170	160	150			
CARBONATES AS $CaCO_3$ (PPM)	16	24	8	0	0	0			
BICARBONATES AS $CaCO_3$ (PPM)	38	128	52	170	160	150			
CHLORIDES AS Cl (PPM)	16	80	14	16	26	14		!	
HARDNESS AS $CaCO_3$ (PPM)	60	56	66	54	54	82			
IRON AS Fe (PPM)	-	-	-						
FLUORIDE (PPM) AM / PM	0.41 / 0.64	0.63	1.07 / 1.04	0.12	0.12	0.15			
TURBIDITY (NTUS) AM / PM	0.3 / 0.2	0.2	0.1 / 0.2	0.1	0.1	0.1			
CHLORINE RESIDUAL (PPM)	1.1	0.8	1.2	1.2	1.0	1.5			

REMARKS:

COPY TO:

- ☒ UTIL DIR, BMD ☐ _____
- ☒ WATER TREATMENT, UTIL DIV, BMD
- ☒ PMO, NAVHOSP ☒ PMO, MCAS-NR
- ☒ DIVISION OF HEALTH SERVICES N.C. DEPT OF HUMAN RESOURCES
- ☐ NREAD ☒ FILE (ATTACH WKST)

REPORT DATE: 8-4-87

REPORT PREPARED BY: H. J. BURNS

ENCLOSURE (2)

ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT

CHEMICAL ANALYSIS - WATER TREATMENT PLANTS

MCBCL 11330/3 (REV 7-87)

DATE COLLECTED: 8-11-87

DATE(S) ANALYZED: 8-11-87

PARAMETER (UNITS) \ PLANT		HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLOW BEACH 04-67-048			
pH-LABORATORY		9.1	8.7	8.6	7.7	8.2	7.6			
STABILITY		-0.6	0.0	+0.2	-0.7	-0.3	-0.7			
PHENOLTHALEIN ALKALINITY (PPM)		8	12	2	0	0	0			
METHYL ORANGE ALKALINITY (PPM)		48	136	60	172	150	160			
CARBONATES AS $CaCO_3$ (PPM)		16	24	4	0	0	0			
BICARBONATES AS $CaCO_3$ (PPM)		32	112	56	172	150	160			
CHLORIDES AS Cl (PPM)		14	74	12	18	24	20			
HARDNESS AS $CaCO_3$ (PPM)		60	50	68	56	42	68			
IRON AS Fe (PPM)		—	—			—	—			
FLUORIDE (PPM)	AM	1.00	0.57	1.00	0.12	0.10	0.14			
	PM	1.00		0.94						
TURBIDITY (NTUS)	AM	0.8	1.0	0.8	0.6	0.7	0.9			
	PM	1.5		0.6						
CHLORINE RESIDUAL (PPM)		1.1	0.8	1.1	1.2	1.0	1.1			

REMARKS:

COPY TO:

- ☒ UTIL DIR, BMD ☐ _____
- ☒ WATER TREATMENT, UTIL DIV, BMD
- ☒ PMU, NAVHOSP ☒ PMU, MCAS-NR
- ☒ DIVISION OF HEALTH SERVICES N.C. DEPT OF HUMAN RESOURCES
- ☐ NREAD ☒ FILE (ATTACH WKST)

REPORT DATE: 8-11-87

REPORT PREPARED BY: H.J. BURNS

ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT

CHEMICAL ANALYSIS - WATER TREATMENT PLANTS

MCBCL 11330/3 (REV 7-87)

DATE COLLECTED: 8-25-87

DATE(S) ANALYZED: 8-25-87

PARAMETER (UNITS) \ PLANT	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLOW BEACH 04-67-048			
pH-LABORATORY	8.2	8.8	8.6	8.0	8.4	7.6			
STABILITY	-0.1	+0.2	0	-0.4	-0.1	-0.8			
PHENOLTHALEIN ALKALINITY (PPM)	0	8	4	0	0	0			
METHYL ORANGE ALKALINITY (PPM)	70	132	60	182	172	184			
CARBONATES AS $CaCO_3$ (PPM)	0	16	8	0	0	0			
BICARBONATES AS $CaCO_3$ (PPM)	70	116	52	182	172	184			
CHLORIDES AS Cl (PPM)	14	66	14	10	38	28		!	
HARDNESS AS $CaCO_3$ (PPM)	72	92	74	78	82	60			
IRON AS Fe (PPM)									
FLUORIDE (PPM) AM / PM	0.70 / 0.61	0.65	0.96 / 1.14	0.14	0.11	0.15			
TURBIDITY (NTUS) AM / PM	0.7 / 0.7	1.3	0.8 / 0.9	0.7	0.8	0.8			
CHLORINE RESIDUAL (PPM)	1.0	0.7	1.4	1.2	1.1	1.1			

REMARKS:

COPY TO:

- ☒ UTIL DIR., BMD ☐ _____
- ☒ WATER TREATMENT, UTIL DIV, BMD
- ☒ PMU, NAVHOSP ☒ PMU, MCAS-NR
- ☒ DIVISION OF HEALTH SERVICES N.C. DEPT OF HUMAN RESOURCES
- ☐ NREAD ☒ FILE (ATTACH WKST)

REPORT DATE: 8-25-87

REPORT PREPARED BY: CAROL S. SHORES

ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT

CHEMICAL ANALYSIS - WATER TREATMENT PLANTS

MCBCL 11330/3 (REV 7-87)

DATE COLLECTED: 8-18-87

DATE(S) ANALYZED: 8-18-87

PARAMETER (UNITS) \ PLANT	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLOW BEACH 04-67-048			
pH-LABORATORY	9.2	8.5	8.6	7.9	8.2	7.7			
STABILITY	+0.4	0	+0.3	-0.4	-0.2	-0.6			
PHENOLTHALEIN ALKALINITY (PPM)	12	6	2	0	0	0			
METHYL ORANGE ALKALINITY (PPM)	56	142	62	192	152	174			
CARBONATES AS $CaCO_3$ (PPM)	24	12	4	0	0	0			
BICARBONATES AS $CaCO_3$ (PPM)	32	130	58	192	152	174			
CHLORIDES AS Cl (PPM)	14	78	16	18	10	26			
HARDNESS AS $CaCO_3$ (PPM)	50	50	70	56	62	56			
IRON AS Fe (PPM)	—	—							
FLUORIDE (PPM) AM / PM	0.85 / 0.92	0.55	0.88 / 0.87	0.12	0.10	0.14			
TURBIDITY (NTUS) AM / PM	0.3 / 0.5	0.2	0.2 / 0.3	0.1	0.1	0.1			
CHLORINE RESIDUAL (PPM)	1.0	0.8	1.2	1.2	0.8	NONE RECORDED			

REMARKS:

COPY TO:

- ☒ UTIL DIR, BMD ☐ _____
- ☒ WATER TREATMENT, UTIL DIV, BMD
- ☒ PMU, NAVHOSP ☒ PMU, MCAS-NR
- ☒ DIVISION OF HEALTH SERVICES N.C. DEPT OF HUMAN RESOURCES
- ☐ NREAD ☒ FILE (ATTACH WKST)

REPORT DATE: 8-18-87

REPORT PREPARED BY: CAROL S. SHORES