6280 7-11335 NREAD

AUG 1 6 1985

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

Dear Mr. Rundgren:

Enclosed are the Radiological analyses conducted in 1984 for all eight water treatment plants aboard Marine-Gorps Base (MCB), Camp Lejeune. The final results were received 1 August 1985.

The sampling was done by personnel in the Water Quality Control Laboratory (WQC Lab), State Identification Number 37807, located in the Natural Resources and Environmental Affairs Division (NREAD), under the Assistant Chief of Staff, Facilities, MCB, Camp Lejeune, North Carolina. The analysis was performed by Grainger Laboratories, Incorporated of Raleigh, North Carolina. NREAD averaged the quarterly analysis provided by Grainger Laboratories for all eight drinking water systems aboard this installation which is contained in Enclosure (1). Enclosure (2) contains each quarters' analysis on required Radiological Reporting Forms.

Enclosure (3) contains second quarter data for all systems as originally received from Grainger Laboratories, Incorporated. NREAD transferred this data to the required forms in enclosure (2). Enclosure (4) contains Radium 226 and Radium 228 data from the fourth quarter analysis of Marine Corps Air Station, New River. This data was also transferred to enclosure (2) by NREAD.

Any questions regarding this matter should be forwarded to Ms. Elizabeth Betz, Supervisory Chemist, NREAD, telephone (919) 451-5977.

Sincerely,

R. A. TIEBOUT Colonel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

Encl: (1) Radiological Analysis Table (2) Radiological Reporting Forms (3) Grainger 1tr of 13 Sept 1984 (4) Grainger 1tr of 29 July 1985 Blind copy to: BMO (Attn: UtilDir) Copy to:

LANTDIV (Code 114)

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UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

6280/5 NREAD

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

Dear Mr. Rundgren:

- I Enclosed are the Radiological analyses conducted in 1984 for all eight water treatment plants aboard Marine Corps Base, Camp Lejeune. The final results were received 1 August 1985.
- The sampling was done by personnel in the Water Quality Control Laboratory (WQC Lab), State Identification Number 37807, located in the Natural Resources and Environmental Affairs Division (NREAD) under the Assistant Chief of Staff, Facilities. The analysis was performed by Grainger Laboratories, Incorporated Instead & Raleigh, North Carolina.

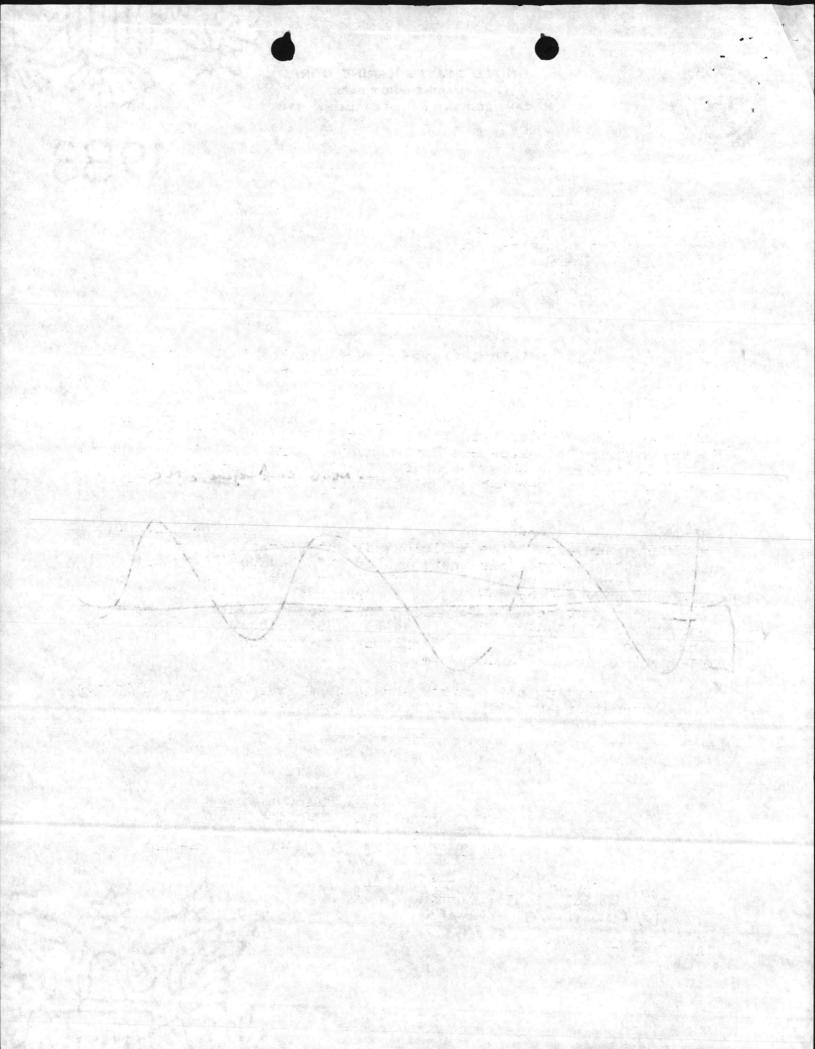
Quarterly samples were analyzed and then averaged. Enclosure (1) provides a summary of the Radiological data for all eight drinking water systems aboard this installation. Enclosure (2) contains each quarters' analysis. The system information and collection data were provided by the WQC Lab. Grainger provided analysis data. Please note that results for Rifle Range water supply for the second quarter and the Radium 226 and Radium 228 results for Marine Corps Air Station, New River water supply system for the fourth quarter are provided in memorandum form.

Questions regarding this matter should be forwarded to Ms. Elizabeth Betz, Supervisory Chemist, NREAD, telephone (919) 451-5977.

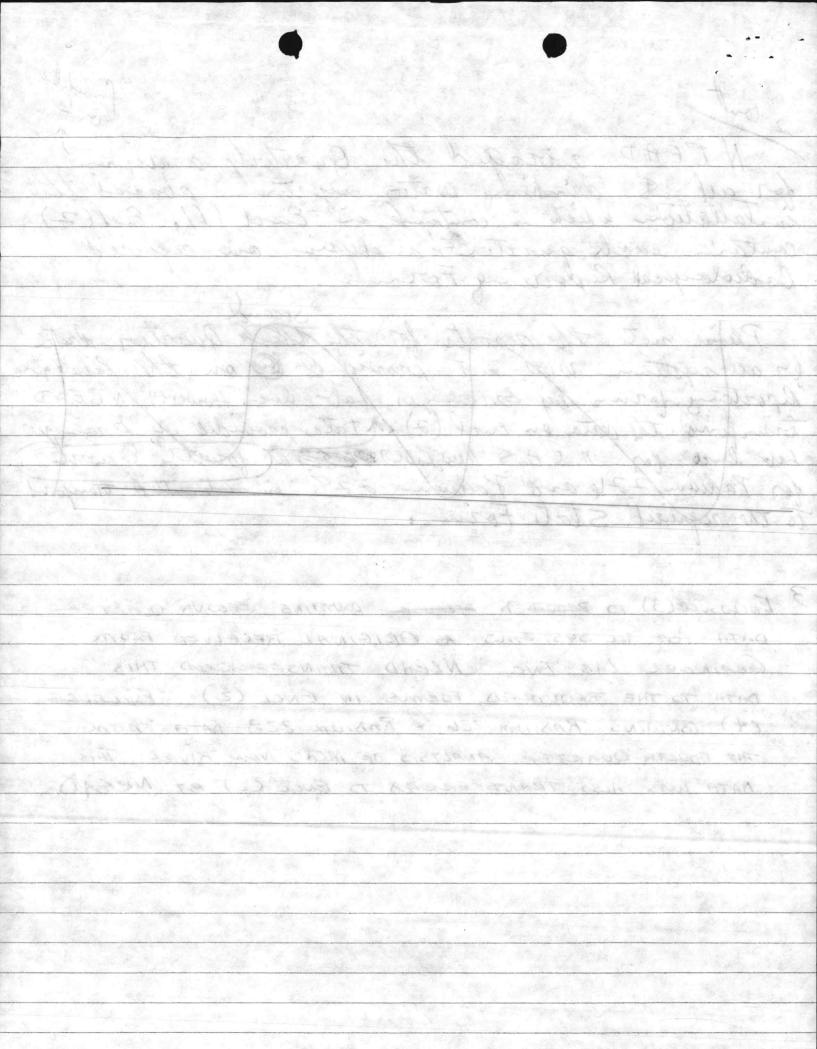
Sincerely,

R. A. TIEBOUT Colonel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

Encl: (1) Radiological Analysis Table (2) Radiological Reporting Forms (3) Gramon Then 13 Supt 84 Copy to 14 " " 29 Buty 85 LANTDIV (Code 114)



Provided buy 2 coul NREAD averaged the Quarterly analym for all & drinking water system aboard this installation which is contained in End (11, Enel(2) Contain each quarters' analysis on required Radiological Reporting Form. Please note the results for the the quarter data for all system work not provide of on the ladograd Reporting forms by Granger hab due, However NREDD transford the data on Engl (2) A Data provided by Granger Lab and box MCAS New Reper the Jourth Quarter to the aquired State Form. 3 ENCLOSURE (3) IS PROVIDED BEERUSE CONTRING SECOND QUARTER DATA FOR ALL SYSTEMS AS GRIGINAL RECEIVED FROM GRAINGER LAB INC. NREAD TRANSFERRED THIS DATA TO THE REQUIRED FORMS IN ENCL (2). ENCLOSURE (4) CONTAINS RASIUM 226 \* RASIUM 223 DATA FROM THE FOURTH QUARTER ANALTSIS OF MCAS NEW RIVER. THIS BATA WAS ALSO TRANSFERRED TO ENCL (2) BY NREAD



Mr. Charles E. Rundgren Water Supply Branch Division of Health Services North Carolina Department of Human Resources Post Office Sox 2091 Baleigh, North Carolina 27602

Dear Mr. Rundgron:

Enclosed are the Radiological Analyses conducted in 1984 for all eight water treatment plants aboard Marine Corps Base, Camp Lejeune. The final results were received 1 August 1985.

The sampling was done by personnel in the Nater Quality Control Laboratory (WQC Lab), state identification number 37807, located in the Natural Resources and Environmental Affairs Division (NREAD), under the Assistant Chief of Staff, Facilities. The analysis was performed by Grainger Laboratories, Incorporated located in Releigh, North Carolina.

Quarterly samples were analyzed and then averaged. Enclosure (1) provides a summary of the rediclogical data for all eight drinking water systems aboard this installetion. Enclosure (2) contains each quarters' analysis on the required Radiological Reporting Form (RE Form). The system information and collection data was filled out the WCC Lab. Grainger provide most analysis data on these forms. The HS Forms for the second quarter were not provided by Grainger, so Grainger's report is also included in the enclosure. The Radium 225 and Radium 228 for the fourth quarter were provided in a separate letter so it is also included in the enclosure.

Questions regarding this matter should be forwarded to Ms. E. Betz, Supervisory Chesist, NREAD, telephone (919) 451-5977.

Sincerely,

R. A. TIEBOUT Colonel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

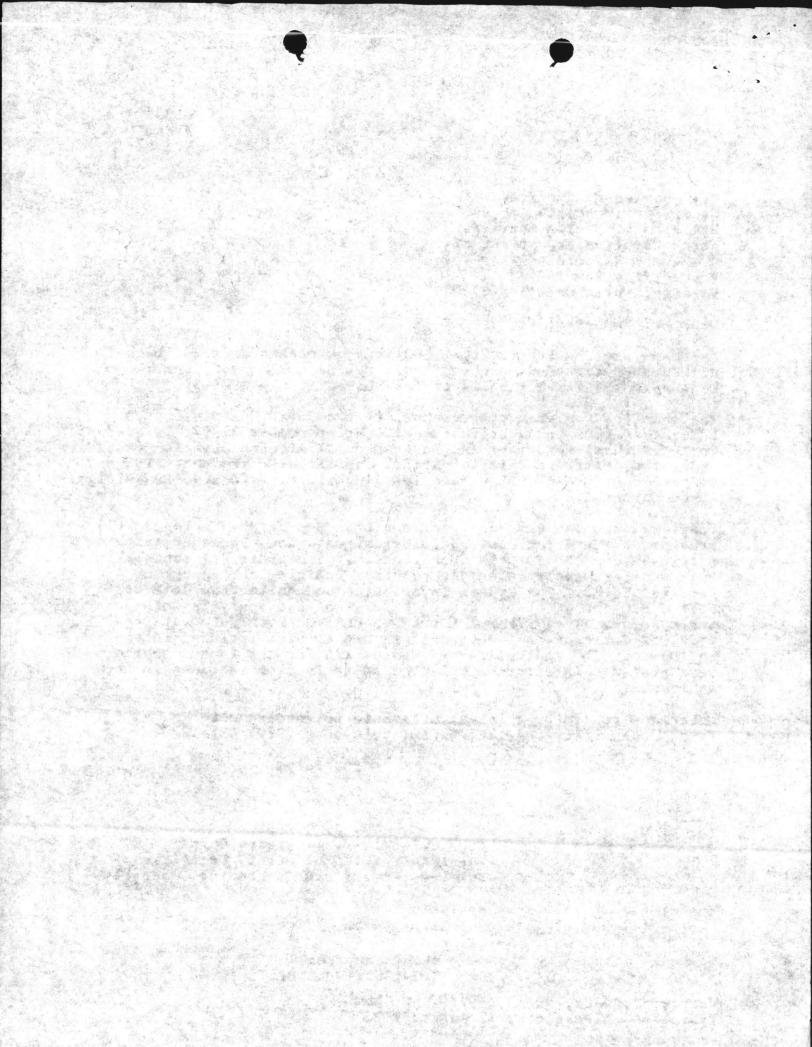
11335 NREAD

REPORTING

Encls: (1) Radiological Analysis Table (2) Radiological Reporting Forms

Copy to: LANTDIV (Code 114) Blind copy to: BNO (Attn: UtilDir)

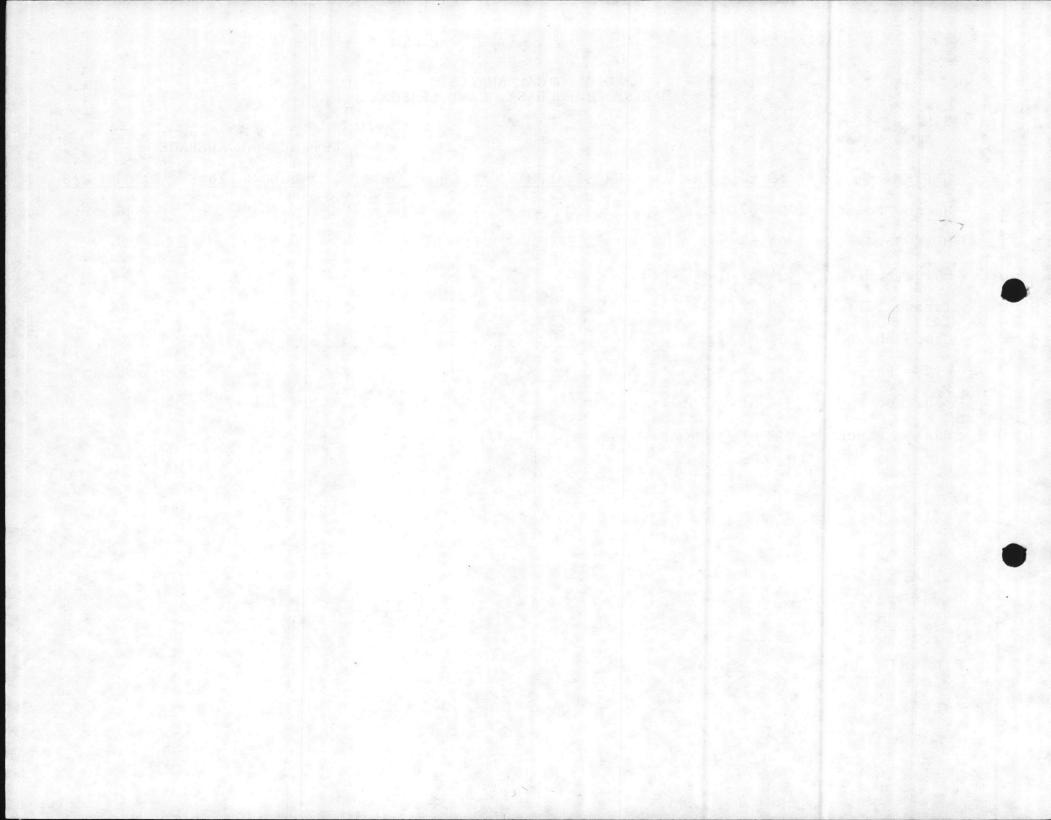
Writer: E. Betz, NREAD, 5977 Supv Chem Typist: A. Blackstock, 12 August 1985



#### RADIOLOGICAL ANALYSIS MARINE CORPS BASE, CAMP LEJEUNE

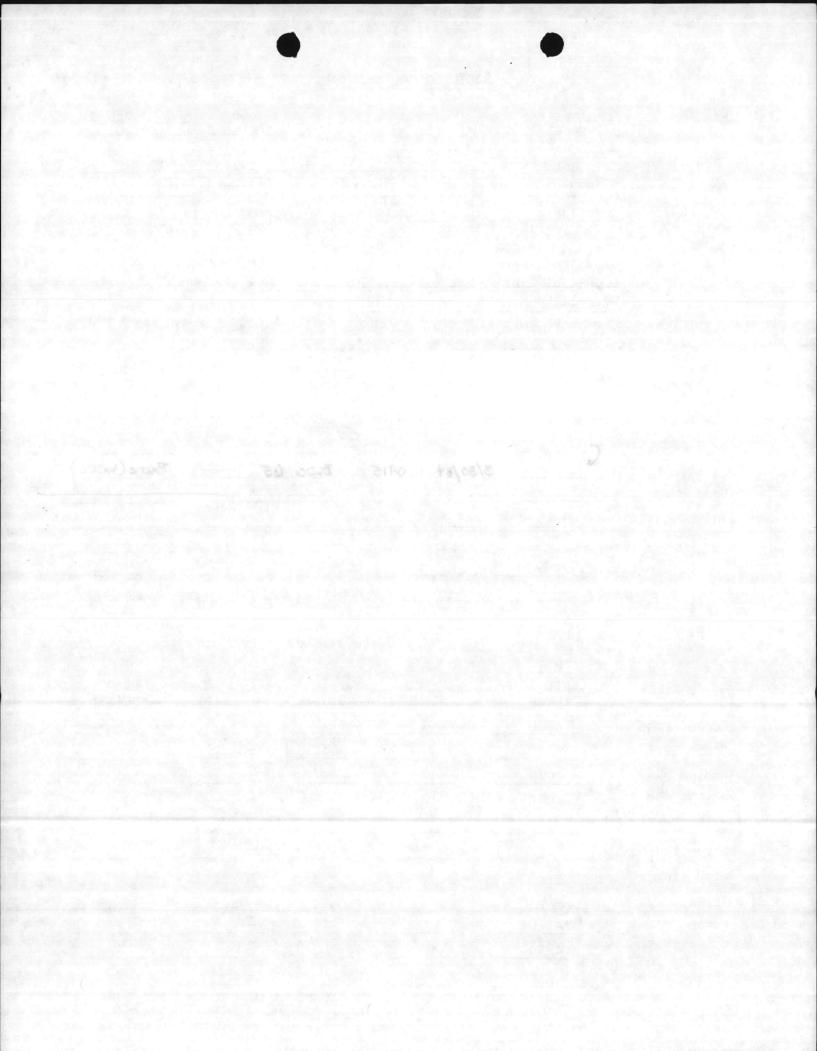
#### 1984 ANNUAL AVERAGE

SYSTEM	<u>ID #</u>	GROSS ALPHA	GROSS BETA	RADIUM 226	RADIUM 228
Hadnot Point	04-67-041	∠1.0	3.3	NA	NA
MCAS-New River	04-67-042	<b>41.0</b>	10.3	<0.6	<0.4
Holcomb Blvd	04-67-043	41.0	2.4	NA	NA
Tarawa Terrace	04-67044	41.0	2.7	NA	NA
Camp Johnson	04-67-045	<b>~1.0</b>	∠1.0	NA	NA
Rifle Range	04-67-046	<b>~1.0</b>	1.5	NA	NA
Courthouse Bay	04-67-047	<1.0	2.0	NA	NA
Onslow Beach	04-67-048	∠1.0	1.3	NA	NA



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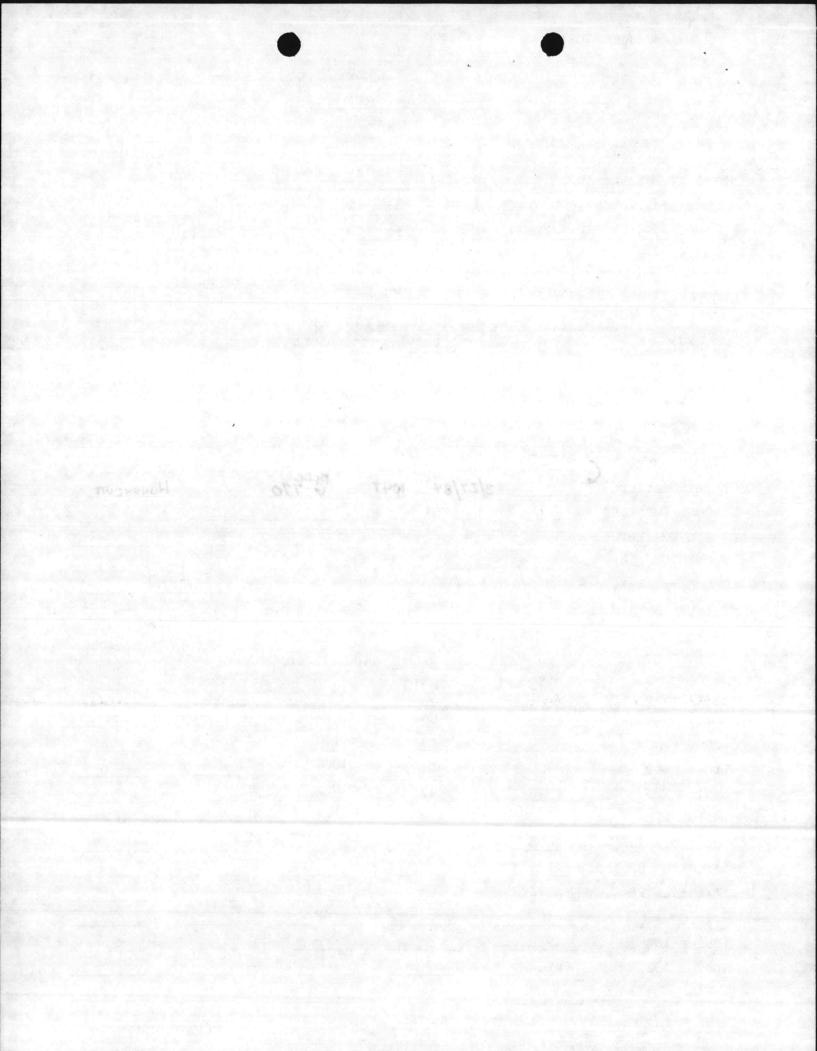
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T.C. Anal	/ <u>2/1/</u> 2/0/0/ lyzing Lab I.D.			04 - Water Si	<u>67</u> - <u>041</u> upply I.D. No
Name of PWS:	HADNOT POINT			County:	ONSLOW
Address:	MARINE CORPS H	BASE		Telephone #:	
	CAMP LEJEUNE, NO	z Zip;	28542	Type of Water	
Report to:	COMMANDING GENER	PAT	a farma a constantina	( ) Raw	(X) Treate
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	1./10/04	ample <u>Tim</u>	samp	le Location	Collected E
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Second Quarte	er		_		
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. Lab Samp]	Le No.: GLI 84-6050	ICAL VALUES	The Martin State of the State of the	by: McCoy	& McCoy, Inc.
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Lab Sampl Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium Strontium 89 Strontium 90 Tritium Cesium 134	Le No.: GLI 84-4050 <u>ANALYTI</u> MSIS Contaminant <u>Code</u> 4000 4100 4020 4020 4030 n <u>4006</u> 4172 4174 4102	ICAL VALUES MSIS Method Code 401 401 417	Reported (pCi/lite <u>Results</u> < 1.0	by: <u>McCoy</u> r) <u>Counting</u> <u>Error</u> <u>+</u> - <u>+</u> 2.3 <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>	Detectio Limit 
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Address: _	COMMANDING GEN	RINE CORPS	BASE	urce of Wate (X) Ground	
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		COLLECTION	DATA		
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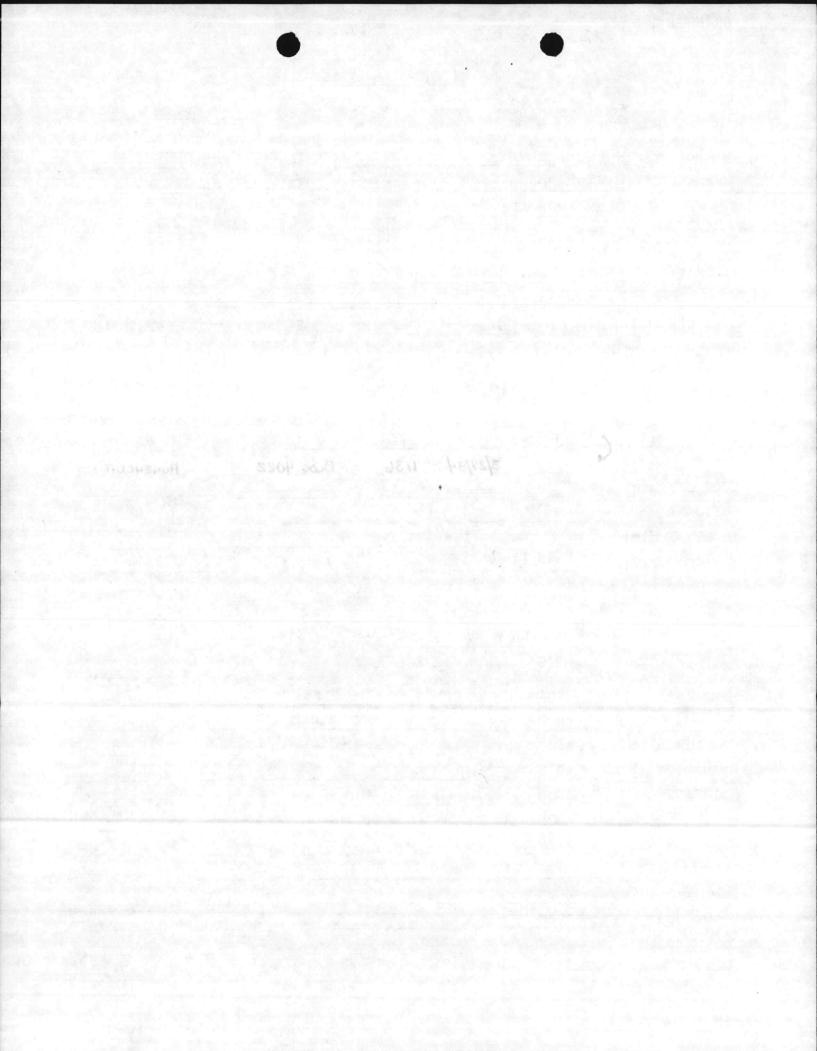
Gross Alpha	4000	401	< 1.0	<u>+</u> _	1.0
Gross Beta	4100	401	10.4	<u>+</u> 3.4	1.0
Radium 226	4020	417	< 0.6	± -	0.6
Radium 228	4030	418	1.4	+ 0.4	0.4
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Strontium 89	4172			±	
Strontium 90	4174	han berten an se		<u>+</u>	
Tritium	4102			÷.	
Cesium 134	4270	alarikan kura di Karitan		±	
Iodine 131	4264			±	
Other		All the second	and the second second	±	



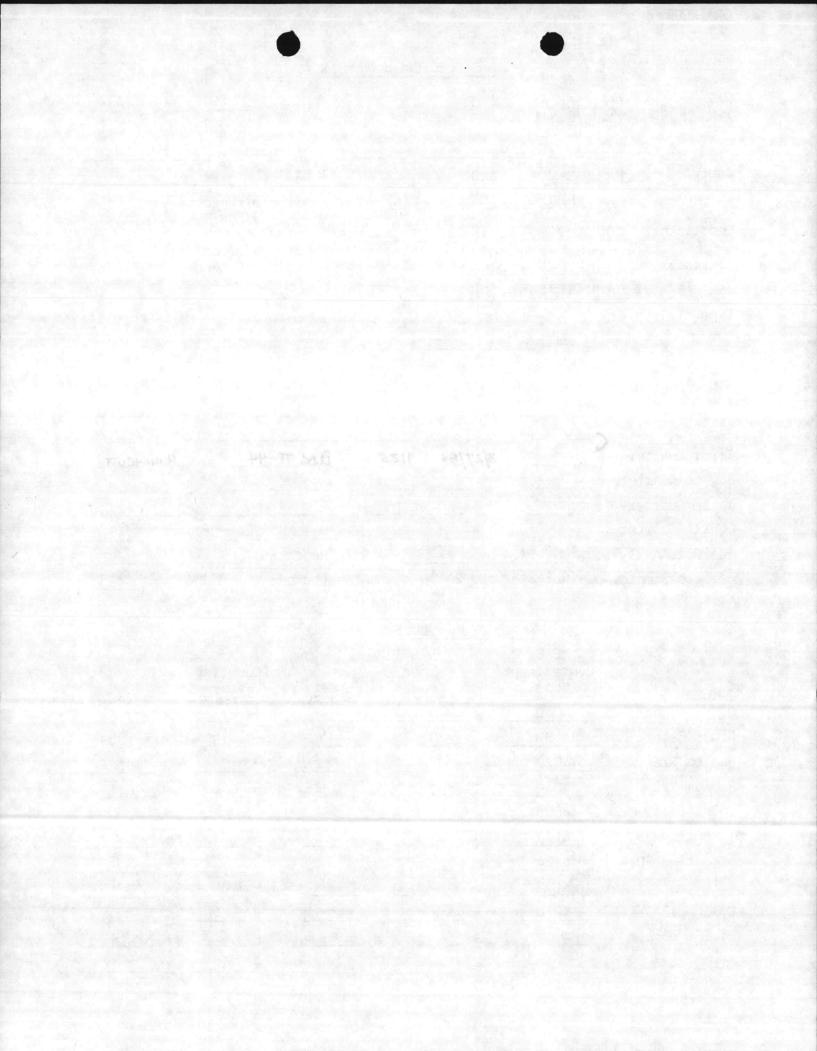
RADIOLOGICAL ANALYSIS

	zing Lab I.D.			Water Su	pply I.D. No.
Name of PWS: 1	HOLCOMB BLVD		C	ounty:	ONSLOW
Address:	MARINE CORPS BA	SE	Ti	elephone #:	
	CAMP LEJEUNE, N	IC Zip	28542 T	pe of Water:	
Report to:	COMMANDING GENE	RAL	AND CALER	( ) Kaw	(X ) Treated
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Date Analy	zed: 5/14/84 No.: GLI 84-1050 <u>ANALYTI</u>	CAL VALUES		by: McCoy &	m mit
Date Analy	zed: 5/14/84 No.: GLI 84-1050	CAL VALUES MSIS	Reported t	y: McCoy &	McCoy, Inc.
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Date Analy Lab Sample Gross Alpha	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant	CAL VALUES MSIS Method	Reported to (pCi/liter) Results < 1.0	McCoy & Counting Error ± _	McCoy, Inc. Detection
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Date Analy Lab Sample Gross Alpha Gross Beta Radium 226 Radium 228	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100	CAL VALUES MSIS Method Code 401 401	Reported to (pCi/liter) Results < 1.0	McCoy & McCoy & Counting Error ± ±	McCoy, Inc. Detection Limit 1.0 1.0
Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100 4020	CAL VALUES MSIS Method Code 401 401 417	Reported to (pCi/liter) Results < 1.0	Dy: McCoy & Counting <u>Error</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>	McCoy, Inc. Detection Limit 1.0 0.6
Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium Strontium 89	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100 4020 4030	CAL VALUES MSIS Method Code 401 401 417	Reported to (pCi/liter) Results < 1.0	Dy: McCoy & Counting <u>Error</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u></u>	McCoy, Inc. Detection Limit 1.0 0.6
Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium Strontium 89 Strontium 90	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100 4020 4030 4006 4172 4174	CAL VALUES MSIS Method Code 401 401 417	Reported to (pCi/liter) Results < 1.0	Dy: McCoy & Counting <u>Error</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>	McCoy, Inc. Detection Limit 1.0 0.6
Gross Alpha Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium Strontium 89 Strontium 90 Tritium	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100 4020 4020 4030 4006 4172 4174 4174 4102	CAL VALUES MSIS Method Code 401 401 417	Reported to (pCi/liter) Results < 1.0	Dy: McCoy & Counting <u>Error</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>	McCoy, Inc. Detection Limit 1.0 1.0 0.6
Gross Alpha Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium Strontium 89 Strontium 90 Tritium Cesium 134	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100 4020 4030 4006 4172 4174	CAL VALUES MSIS Method Code 401 401 417	Reported to (pCi/liter) Results < 1.0	Dy:	McCoy, Inc. Detection Limit 1.0 0.6
Gross Alpha Gross Alpha Gross Beta Radium 226 Radium 228 Total Uranium Strontium 89 Strontium 90 Tritium	zed: 5/14/84 No.: GLI 84-1050 ANALYTI MSIS Contaminant Code 4000 4100 4020 4020 4030 4006 4172 4174 4174 4102	CAL VALUES MSIS Method Code 401 401 417	Reported to (pCi/liter) Results < 1.0	Dy: McCoy & Counting <u>Error</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>	McCoy, Inc. Detection Limit 1.0 1.0 0.6

(ENCLOSURE 2)



	<u>114</u>	DIOLOGICAL	ANAL 1313		
<u>0/9</u> T.C. Anal	/ <u>2/1/2/0/</u> 0/ lyzing Lab I.D.				67 - 044 pply I.D. No.
Name of PWS:	TARAWA TERRACE		Co	unty: (	ONSLOW
Address:	MARINE CORPS BA	SE	Te	lephone #:	
	CAMP LEJEUNE, N	C Zip	28542 Ty	pe of Water:	
Report to:	COMMANDING GENE	RAL		( ) Raw	(X ) Treateo
A start and a start	Participation and the state of the		Sc.	urce of Wate	The second stand of the second standard stand
Address:	ATTN: NREA, MAR			( X) Ground	( ) Surface
ing . tratil to an an an an an	CAMP LEJEUNE, NO		and the second		
Type of Samp	le: (X ) D-Regular	• ( ) C-Ch	eck () S-	Special (	) E-Composite
		COLLECTION	DATA		
		A state of the second			
and the second s	Date Dat Received Sa	e mple Tim	e Sample	Location	Collected By
Single Sample	and the second		•		······································
. First Quarter		7/84 112	5 BLDG 7	T-44	HUNEYCUTT
Second Quarte					
Third Quarter		The second			
Fourth Quarte	r			No.	0
Date Anal	yzed: 5/14/84		Date Repor	ted:5/	15/84
Lab Sampl	e No.: GLI-84-1050	9-2A-2	Reported b	y: At	Amith
			And and a second	McCoy &	McCoy, Inc.
	ANALYTI	CAL VALUES	(pCi/liter)		
ASPENDEN	MSIS	MSIS		On und int	D-1
	Contaminant Code	Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± _	1.0
Gross Beta	4100	401	2.9	± 2.5	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		<b>±</b>	0.4
Total Uranium	4006	la service de la companya de la comp		t same	an atomatic sets
Strontium 89	4172		A. A. Star	. ±	al and a second
Strontium 90	4174			····· <u>+</u> ······························	
Tritium	4102		and the second	<u>+</u>	
Cesium 134	4270			±	
Iodine 131	4264		e de la composition d Reference de la composition de la compos	±	
Other				<u>+</u>	Alter A
	a service a service			Contra a contra a	



GR/	IN	GER	

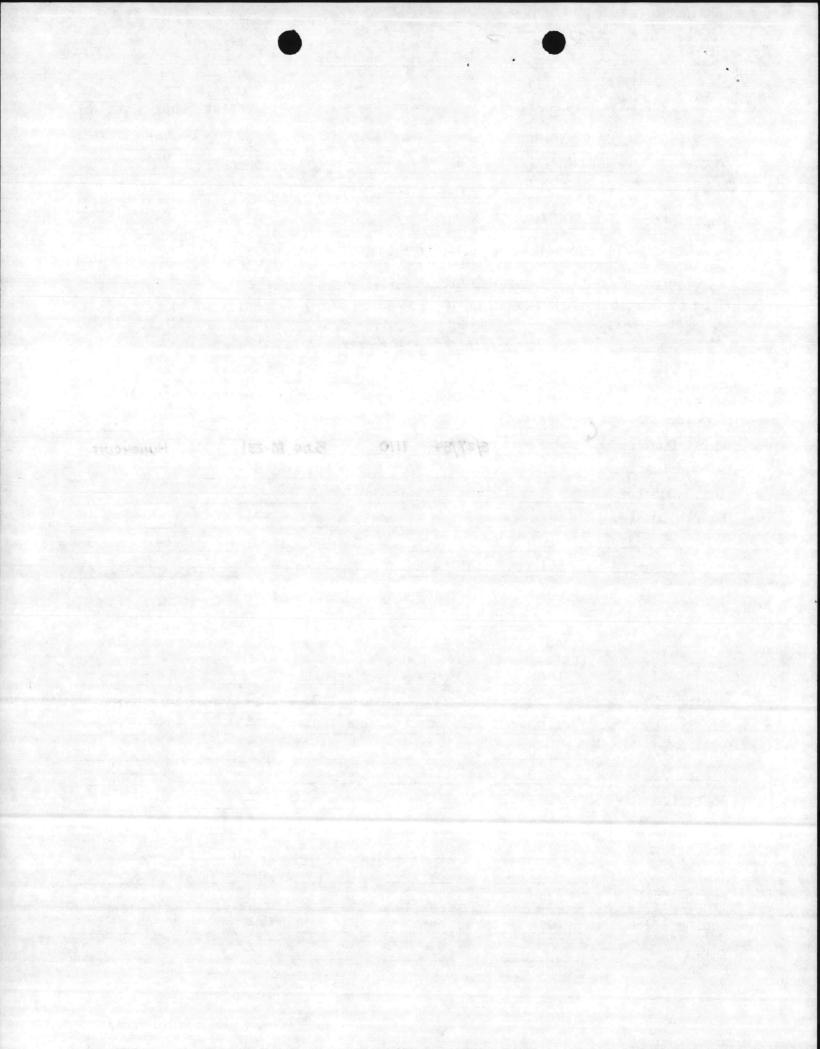
	. RADIOLOGICAL ANALYSIS	
0/9 T.C. Anal	/ <u>2/1/7/0/0/</u> Lyzing Lab I.D.	04 - 67 - 045 Water Supply I.D. No.
Name of PWS:	CAMP JOHNSON	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip28542	Type of Water:
Report to:	COMMANDING GENERAL	( ) Raw ( X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X) Ground () Surface
and the second	CAMP LEJEUNE, NC Zip 28542	
Type of Samp]	e: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

•	Date <u>Receive</u>		Time	Sample Location	n <u>Collected</u> By
Single	e Sample4/12	2/84			
, First	Quarter	3/27/84	1110	BLDG M-231	HUNEYCUTT
Second	d Quarter			And the second second	
Third	Quarter				
Fourth	h Quarter	and the second second	and the second		$\int d$
• , <sub>\</sub> Da	ate Analyzed:5/	/14/84	Da	ate Reported:	5/15/84
La	ab Sample No.: GLI #	84-10510-84-2	2) Re	eported by:	At mith

COLLECTION DATA

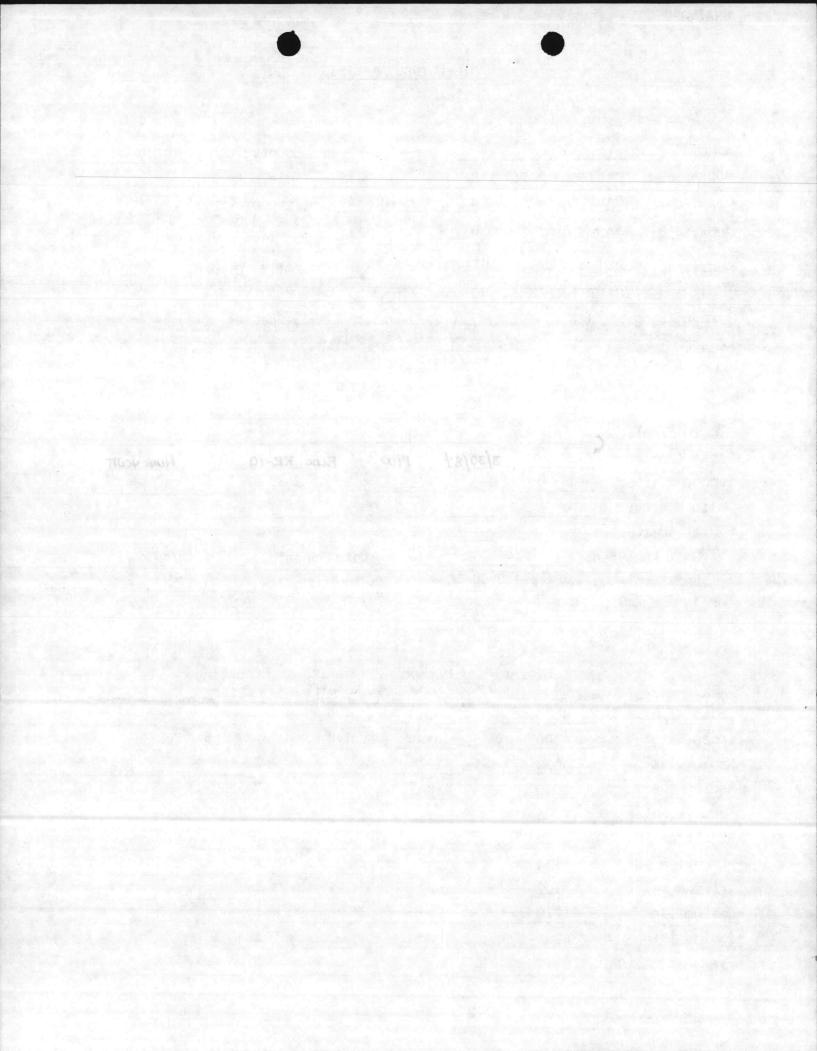
	ANALYTICAL VALUES		(pCi/liter)	McCoy & McCoy, Inc.	
	MSIS Contaminant Cooe	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	±	1.0
Gross Beta	4100	401	< 1.0	±	
Radium 226	4020	417		<u>+</u>	0.6
Radium 228	4030	418		<u>+</u>	0.4
Total Uranium	4006			±	
Strontium 89	4172			<u>+</u>	
Strontium 90	4174			<u>+</u>	
Tritium	4102		· · · · · · · · · · · · · · · · · · ·	<u> </u>	n an
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				<u>+</u>	

(ENCLOSURE 2)

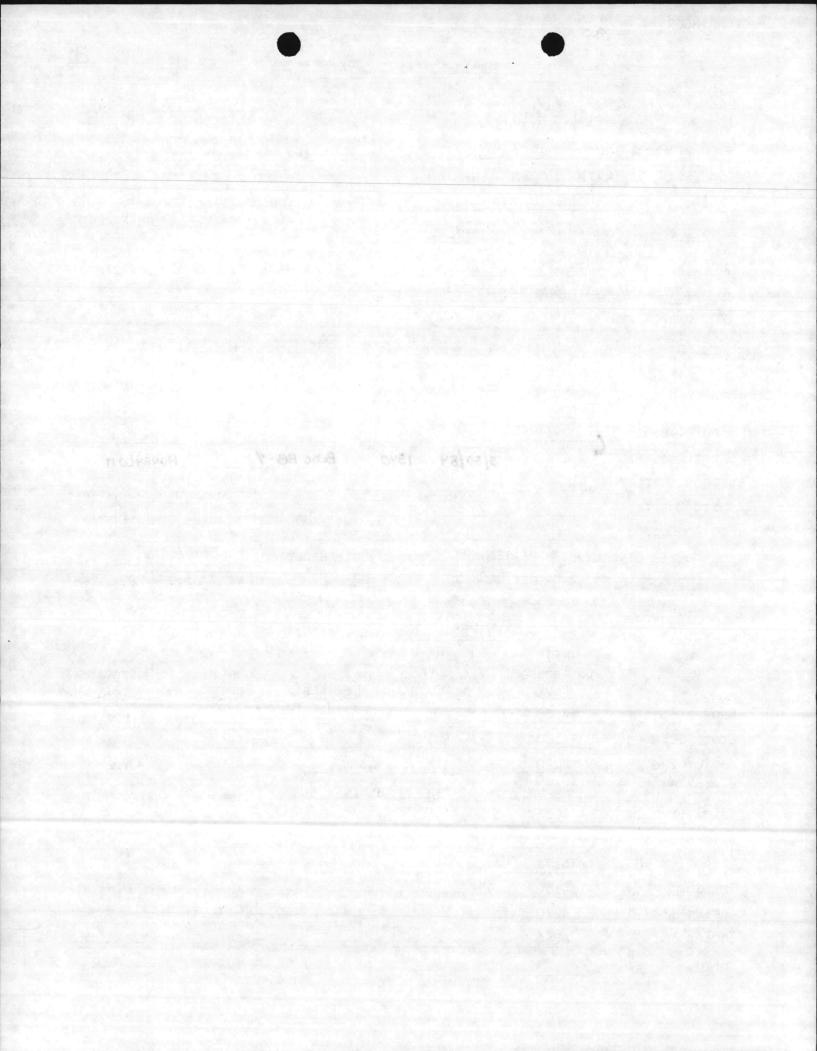


RADIOLOGICAL ANALYSIS 0/9 / 2/ 1/ 2/ 0/ 0/ T.C. Analyzing Lab I.D. 04 - 67 - 046 Water Supply I.D. No. Name of PWS: RIFLE RANGE County: ONSLOW Address: MARINE CORPS BASE Telephone #: Zip 28542 CAMP LEJEUNE, NC Type of Water: () Raw (X) Treated Report to: COMMANDING GENERAL Source of Water: ATTN: NREA, MARINE CORPS BASE Address: (X) Ground () Surface CAMP LEJEUNE, NC Zip 28542 Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite COLLECTION DATA 1.1.5 Date Date Time Received Sample Sample Location Collected By 4/12/84 Single Sample First Quarter 3/30/84 1400 BLDG RR-10 HUNEYCUTT Second Quarter Third Quarter Fourth Quarter 5/14/84 Date Analyzed: 5/15/84 Date Reported: Lab Sample No.: GLI 84-10508-6A-3 Reported by: McCoy & McCoy, Inc. ANALYTICAL VALUES (pCi/liter) MSIS MSIS Contaminant Method Counting Detection Code Code Results Limit Error 4000 < 1.0 Gross Alpha 401 1.0 1.8 Gross Beta 1.5 4100 401 1.0 + Radium 226 4020 417 0.6 + Radium 228 4030 418 0.4 + Total Uranium 4006 + Strontium 89 4172 + Strontium 90 4174 + Tritium 4102 + Cesium 134 4270 4264 Iodine 131 + Other

GRAINGER



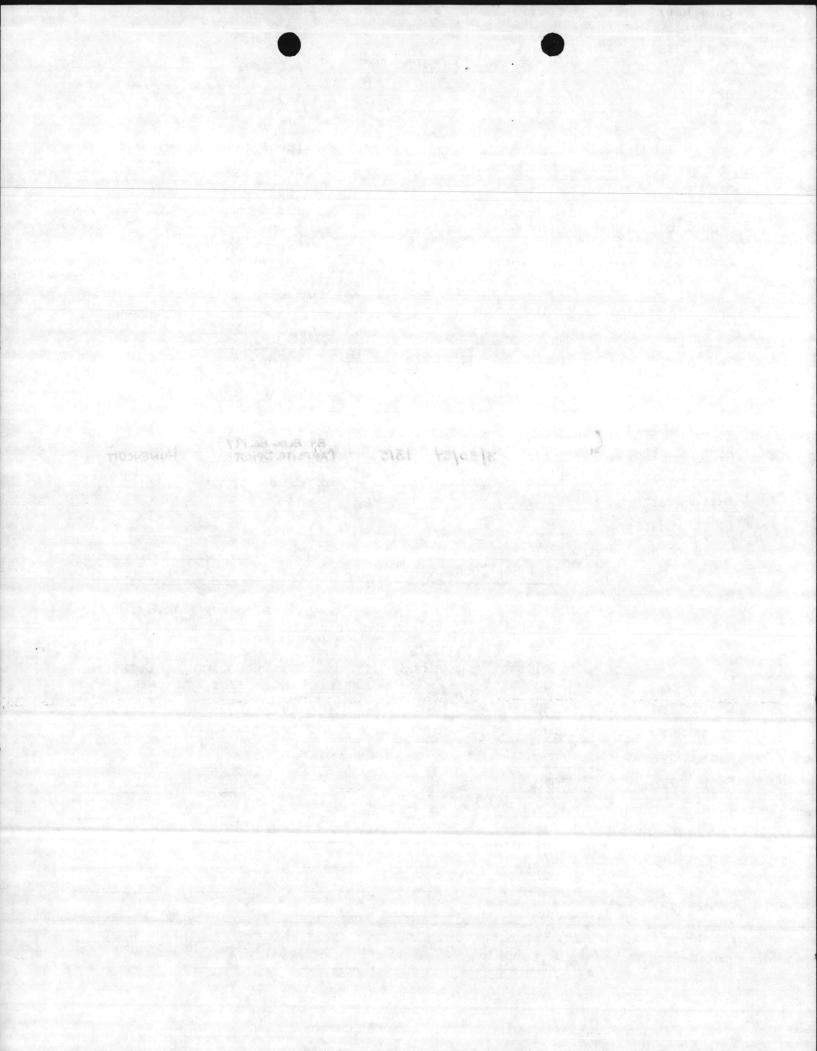
0/9 T.C. Anal	/ <u>2/1/7/0/0/</u> yzing Lab I.D.		and a second	<u>04</u> - Water Su	67 - 047 pply I.D. No.
Name of PWS:	COURTHOUSE BAY			County:	ONSLOW
	MARINE CORPS BA	SE	and the second	Telephone #:	
	CAMP LEJEUNE, N		28542	Type of Water: ( ) Raw	(X ) Treated
Report to:	COMMANDING GENE	RAL		Source of Wate	
Address:	ATTN: NREA, MAR	INE CORPS	BASE	Source of Wate ( X) Ground	( ) Surface
	CAMP LEJEUNE, N	IC Zip	28542		
Type of Sampl	e: ( X) D-Regular	r ( ) C-Ch	eck ( ')	S-Special (	) E-Composite
• \	• Date Dat <u>Received Sa</u>	COLLECTION		le Location	Collected By
Single Sample	4/12/84				
First Quarter	3	30/84 1340	D BLDE	BB-7	HUNEYCU IT
Second Quarte	r	a the second second			
Third Quarter		an and a second a se	Museumin	A Stranger	a da fil dana
Fourth Quarte	r			the second	$1 - \alpha$
Date Anal		Brite .	Date Rep	orteo: 5/15	5/84
. Lab Sampl	e No.: GLI 84-1050	18-5A-2	Reported	by: A	mf mit
				McCoy &	McCoy, Inc.
	ANALYT	ICAL VALUES	(pCi/lite	r)	
langa ta sana ta sa	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	<u>+</u> -	1917 - A.H
Gross Beta	4100	401	2.3	<u>+</u> 2.0	1.0
Radium 226	4020	417		<u>+</u>	0.6
Radium 228	4030	418		± Harris	0.4
Total Uranium	and the second			<u>+</u>	
Strontium 89	4172			<u>+</u>	
Strontium 90	4174		and the contraction	· <u>+</u>	at seat the sea
Tritium	4102		Marth	<u>+</u>	••••••••••••••••••••••••••••••••••••••
Cesium 134	4270			<u>+</u>	
Iodine 131	4264	olemies niek niek of ko		<u>+</u>	
Other				+	
		Billion of the standard strength of the standard strength of the strength of t	and the second sec	and the second	er bereite Cit werde ist



RADIOLOGICAL ANALYSIS

	· <u>RA</u>	DIOLOGICAL	ANALYSIS		
<u>0/9</u> T.C. Anal	/ <u>2/1/2/0/</u> 0/ Lyzing Lab I.D.			<u>04</u> - <u>67</u> Water Sup	- 048 ply I.D. No.
Name of PWS:	ONSLOW BEACH		Co	unty: ON	ISLOW
Address:	MARINE CORPS BA	SE	Те	lephone #:	
	CAMP LEJEUNE, N	C Zip		pe of Water:	
Report to:	COMMANDING GENE	RAL		( ) Raw	(X) Treated
Address:	ATTN: NREA, MAR	INE CORPS		urce of Water ( X) Ground	
	CAMP LEJEUNE, N	han and the second	28542		
Type of Samp]	e: (X) D-Regular	: ( ) C-Ch	neck ( ') S-	Special ( )	E-Composite
		and the second of		Sec. 4 Start Street	and the second
		COLLECTION	DATA		
	Date Dat				
Ser & way		e mple Tim	e Samole	Location	Collected By
Single Sample					
First Quarter		30/84 131	5 CAMPSIT	E SPICET	HUNEYCUTT
Second Quarte	and the second of the second			A Maria	
Third Quarter	an a the second a		THE OWNER		
Fourth Quarte	r		時代であった	~	A 44
Date Anal			Date Repor	ted: (5/	15/84
. Lab Sampl	01 7 04 70	508-4A-1	Reported by	and Auditing	Amith
Aller Meri				Station of	C/
	ANALYTI	CAL VALUES	(pCi/liter)	McCoy & M	AcCoy, Inc.
	MSIS	MSIS			
	Contaminant	Method		Counting	Detection
Alexandre ( 1996)	Code	Code	Results	Error	Limit
Gross Alpha	4000	401	< 1.0	÷	1.0
Gross Beta	4100	401	< 1.0	···±	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174		·	±	Rep II - and
Tritium	4102		ran. Bergana sabaira sa	+	And the second s
Cesium 134	4270			<u>+</u>	
Iodine 131	4264	-			
Other				•••• <u>+</u>	
			the second second second		

(ENCLOSURE 2)

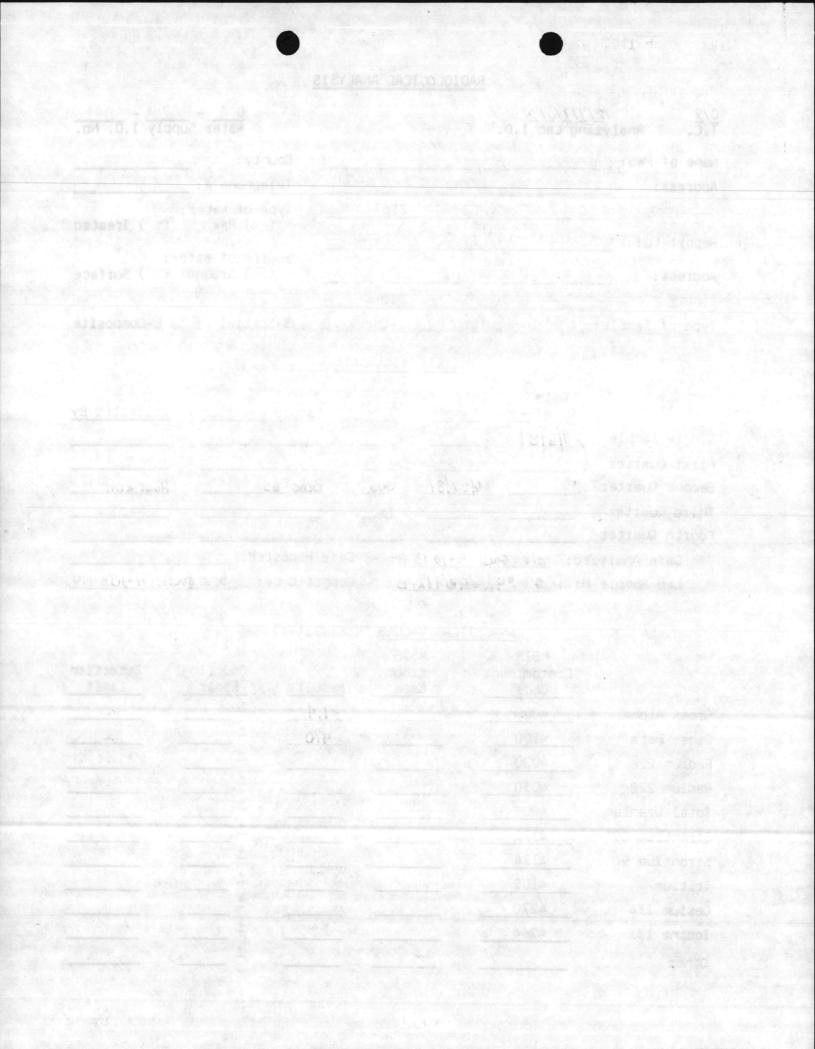


<u>0/9</u> T.C. Ana	/ <u>2/1/1/0/0</u> / lyzing Lab I.D.	<u>04 - 67 - 041</u> Water Supply I.D. No.
Name of PWS:	HADNOT POINT	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water:
Report to:	COMMANDING GENERAL	() Raw (X) Treated
hepoire co.		Source of Water:
Address:	ATTN: NREA, MARINE CORPS BASE	(X) Ground () Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Samp	ole: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

## COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	1/6/84			1 <u>- 10 - 10 - 5 - 5</u>	
First Quarter Second Quarter		6/27/84	1500	BLDG 65	HUNEHCUTT
Third Quarter					
Fourth Quarter					
Date Analyz	ed: SEE G	LI LTR 9-13	-84 D	ate Reported:	
Lab Sample	No .: 5 the	A + 98 11A	B R	eported by: SEE	GLI LTR 9-13-84

5	MSIS Contaminant Code	MSIS Method Code	Results	Counting	Detection Limit
Gross Alpha	4000	401	<1.4	±	1.0
Gross Beta	4100	401	4.0	+	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		<u>+</u>	0.4
Total Uranium	4006			<u>+</u>	
Strontium 89	4172			<u>+</u>	
Strontium 90	4174			<u>+</u>	and the second s
Tritium	4102	nation disease and a second		±	
Cesium 134	4270	And the second		<u>+</u>	
Iodine 131	4264		1997 - Y. C. 1997 -	±	
Other		-		+	

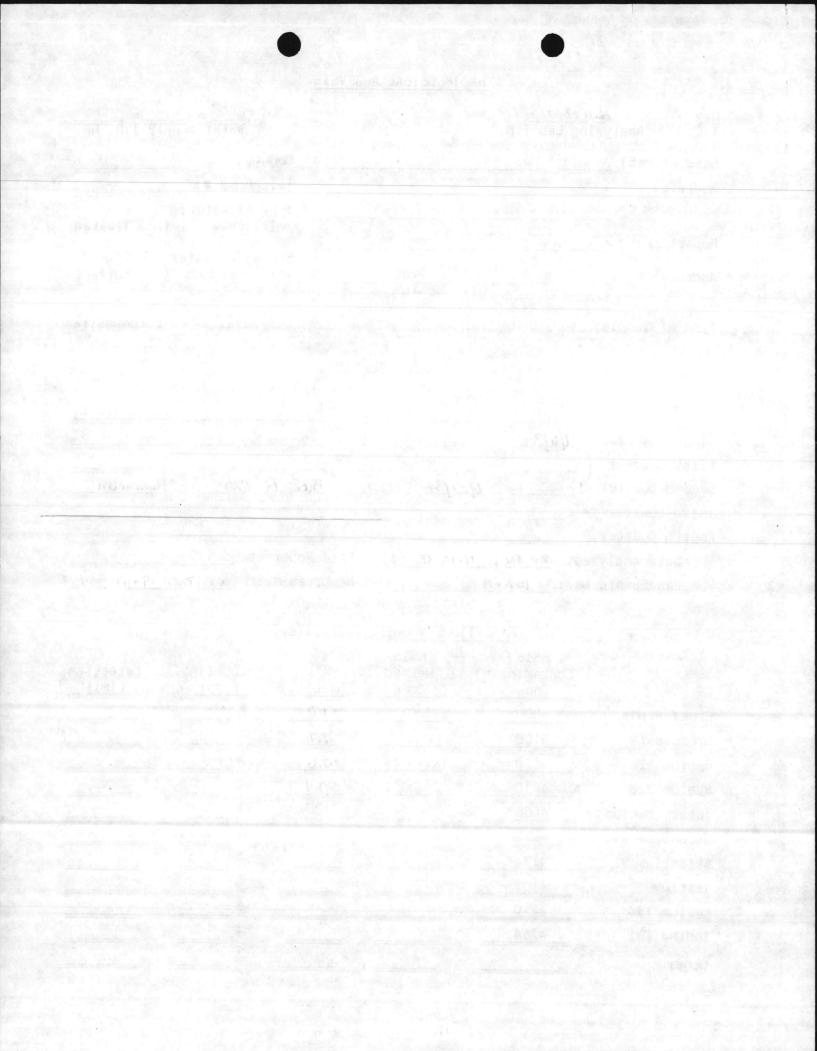


<u>0/9</u> T.C. Ana	/ <u>2///7/0/0/</u> Nyzing Lab I.D.	04-67-042 Water Supply I.D. No.
Name of PWS:	MCAS - NEW RIVER	County: ONSLOW
Address:	MARINE CORPS BASE .	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water:
Report to:	COMMANDING GENERAL	() Raw (X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X ) Ground ( ) Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Samp	ole: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

#### COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	, 7/6/84				
First Quarter	(		de <u>n an</u>		
Second Quarter	7	6/27/84	1220	BLOG G-770	HUNEYCUTT
Third Quarter	e				
Fourth Quarter					
Date Analyz	ed: SEE GL	I LTR 9-13	-84	Date Reported:	
Lab Sample	No .: 154	в		Reported by: SEE G	LI LTR 9-13-84

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	<1.0	±	_1.0
Gross Beta	4100	401	7.7	±	1.0
Radium 226	4020	417	<0.6	±	0.6
Radium 228	4030	418	< 0.4	±	0.4
Total Uranium	4006		· · · · · · · · · · · · · · · · · · ·	+	
Strontium 89	4172	1		±	
Strontium 90	4174	1999 Aug		±	
Tritium	4102	a a construction of the state	enanen er en eller er	+	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

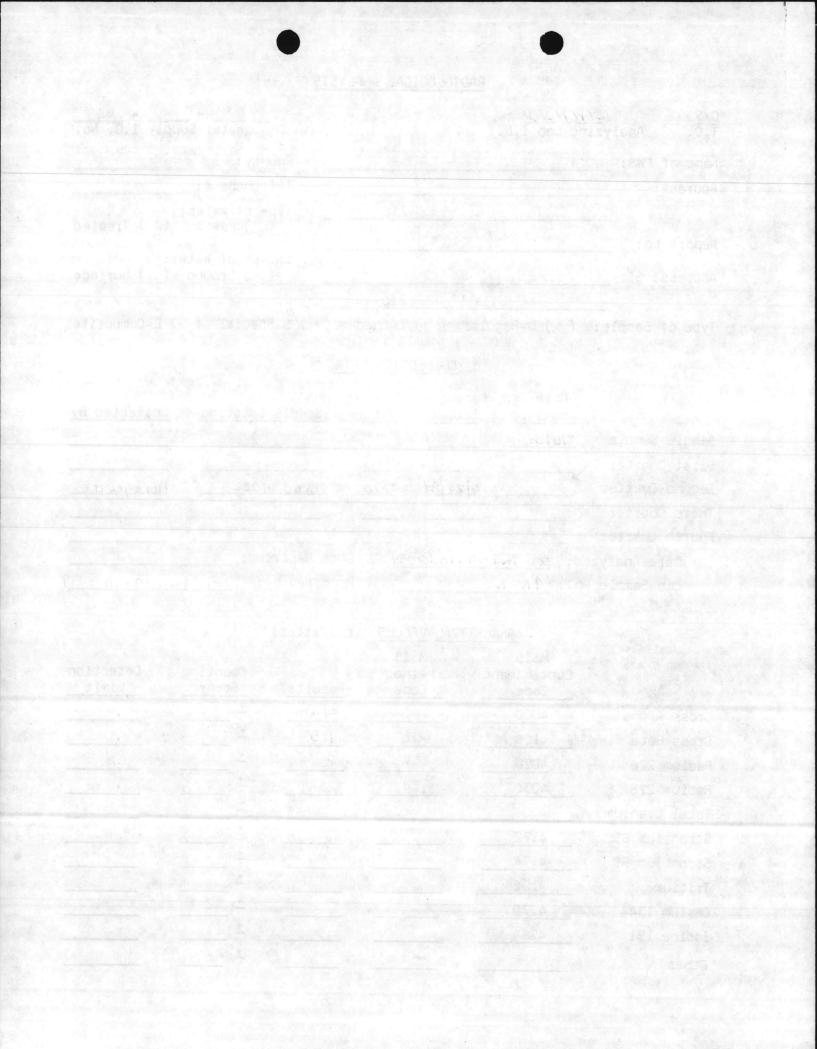


<u>0/9</u> T.C. Ana	/ <u>2/1/1/0/0/</u> alyzing Lab I.D.	04 - <u>67</u> - <u>043</u> Water Supply I.D. No.
Name of PWS	HOLCOMB BLVD	County: <u>ONSLOW</u>
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water: () Raw (X) Treated
Report to:	COMMANDING GENERAL	
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: ( X) Ground ( ) Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Sam	ole: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

### COLLECTION DATA

	Date <u>Received</u>	Date <u>Sample</u>	Time	Sample Location	Collected By
Single Sample	17/6/84				
First Quarter					<u> </u>
Second Quarter		627 34	0900	BLDC 4022	HUNEYCUTT
Third Quarter				*	
Fourth Quarter					
Date Analyz	ed: SEE GL	I LTR 9-13-	84 [	ate Reported:	
Lab Sample	No .: 9 A + B	5	F	eported by: SEE 3	GLI LTR 9-13-84

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	<1.0	±	1.0
Gross Beta	4100	401	1.5	+	1.0
Radium 226	4020	417		<u>+</u>	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	and the second second
Strontium 89	4172		<u> </u>	±	
Strontium 90	4174	a unitaria a la	and the second	<u>+</u>	gan e ann an thairte an Anns
Tritium	4102			* <u>*</u> *	(6),
Cesium 134	4270			±	
Iodine 131	4264	este per diterture	and the second secon	<u>+</u>	denson vertig vier sekkir p Selver
Other		-		+	

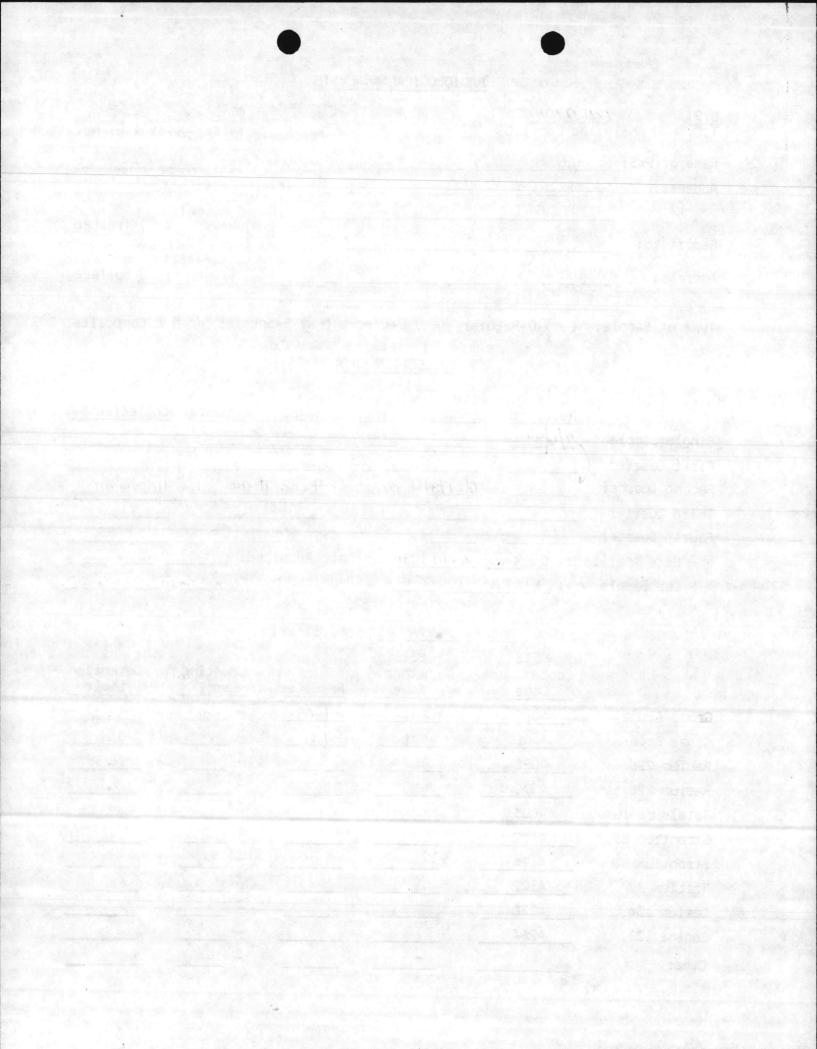


	/2/1/1/0/0/ yzing Lab I.D.	04 - 67 - 044 Water Supply I.D. No.
Name of PWS:	TARAWA TERRACE	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUENE, NC Zip 28542	Type of Water:
Report to:	COMMANDING GENERAL	() Raw (X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X ) Ground ( ) Surface
	CAMP LEJEUENE, NC Zip 28542	
Type of Samp]	Le: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

#### COLLECTION DATA

	Date Received	Date <u>Sample</u>	<u>Time</u>	Sample Location	<u>Collected By</u>
Single Sample	,7/684				n and the second second
First Quarter	(				- 1
Second Quarter	۷	6 27/84	0922	BLDG TT-44	HUNEYCUTT
Third Quarter					
Fourth Quarter					_ · _
Date Analyz	ed: SEE GL	I ITE 9-13-	<u>84</u> D	ate Reported:	
Lab Sample	NO .: 10 ++	в	R	eported by: <u>SEE</u>	GIL UR 9-13-84

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	<1.0	±	
Gross Beta	4100	401	<1.0	±	1.0
Radium 226	4020	_417		<u>+</u>	0.6
Radium 228	4030	418	and the second	<u>+</u>	0.4
Total Uranium	4006			<u>+</u>	<u> Angelen angelen a</u>
Strontium 89	4172			<u>+</u>	
Strontium 90	4174	A Constanting	(	±	
Tritium	4102			+	
Cesium 134	4270			+	
Iodine 131	4264	April Constant	and death way	<u>+</u>	
Other		-		±	



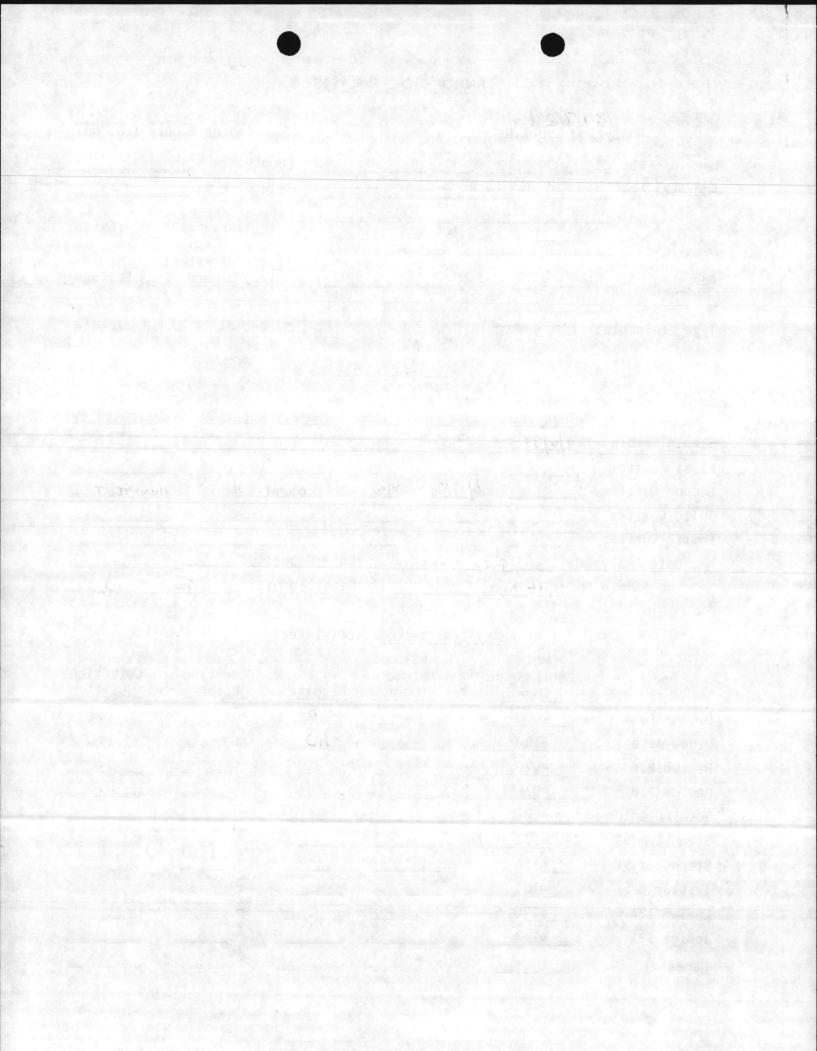
<u>0/9</u> T.C. Anal	/2/1/7/0/0/ yzing Lab I.D.	<u>04 - 67 - 045</u> Water Supply I.D. No.
Name of PWS:	CAMP JOHNSON	County: ONSLOW
Address:	MARINE CORPS BASE	· Telephone #:
	CAMP LEJEUNE, NC Zip 2	B542 Type of Water: () Raw (X) Treated
Report to:	COMMANDING GENERAL	
Address:	ATTN: NREA, MARINE CORPS	BASE (X) Ground () Surface
	CAMP LEJEUNE, NC Zip 2	3542
Type of Sampl	le: (X) D-Regular ( ) C-Chec	ck ( ) S-Special ( ) E-Composite

# COLLECTION DATA

	Date Received	Date <u>Sample</u>	Time	Sample Loca	tion <u>Collected By</u>
Single Sample	7/4/84				
First Quarter (					
Second Quarter	A	6/27/84	0940	BLDG M-231	HUNEYGUTT
Third Quarter					
Fourth Quarter					
Date Analyze	d: SEE G	LT ET 9-13	-84	Date Reported:	• • • • • • • • • • • • • • • • • • •
Lab Sample M	10 .: 16 AT	в		Reported by:	SEE GLI LTE 9-13-84

## ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	<1.0	±	1.0
Gross Beta	4100	401	<1.0	<u>+</u>	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006		W Linter -	<u>+</u>	
Strontium 89	4172		<u> </u>	<u>+</u>	
Strontium 90	4174			±	ara kana sebuah sara sara sara Mana sara sara sara sara sara sara sara s
Tritium	4102			<u>+</u>	
Cesium 134	4270			±	
Iodine 131	4264			<u>+</u>	ingeneration of the second population
Other	- and the second	-	ni	<u>+</u>	



	/ <u>Z/1/7/0/</u> yzing Lab I.D.	04 - 67 - 046 Water Supply I.D. No.
Name of PWS:	RIFLE RANGE	County: ONSLOW
Address:	MARINE CORPS BASE .	Telephone #:
Report to:	CAMP LEIEUNE, NC Zip 28542 COMMANDING GENERAL	Type of Water: ( ) Raw ( <sub>X</sub> ) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X) Ground () Surface
AUGIESS.	CAMP LEJEUNE, NC Zip 28542	
1	(X) D D = los ( ) C Charle (	) C Consist ( ) E Composito

Type of Sample: ( X ) D-Regular ( ) C-Check ( ) S-Special ( ) E-Composite

### COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	7/6/84				
First Quarter					
Second Quarter	7	6/27/84	1340	BLOG RF-10	HUNEYCUTT
Third Quarter					
Fourth Quarter					
Date Analyze	d: SEE G	LI LTR 9-13	3-84 1	Date Reported:	
Lab Sample M	NO .: 14 A+	в	I	Reported by: SEE	GLITTR 9-13-84

## ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	<1.0	±	1.0
Gross Beta	4100	401	1.4	±	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006	and the second		<u>+</u>	an a
Strontium 89	4172			<u>+</u>	
Strontium 90	4174		nan an	<u>+</u>	
Tritium	4102			<u>+</u>	
Cesium 134	4270			<u>+</u>	
Iodine 131	4264	an da ang ang ang ang ang ang ang ang ang an		±	
Other				<u>+</u>	

PAGE 6

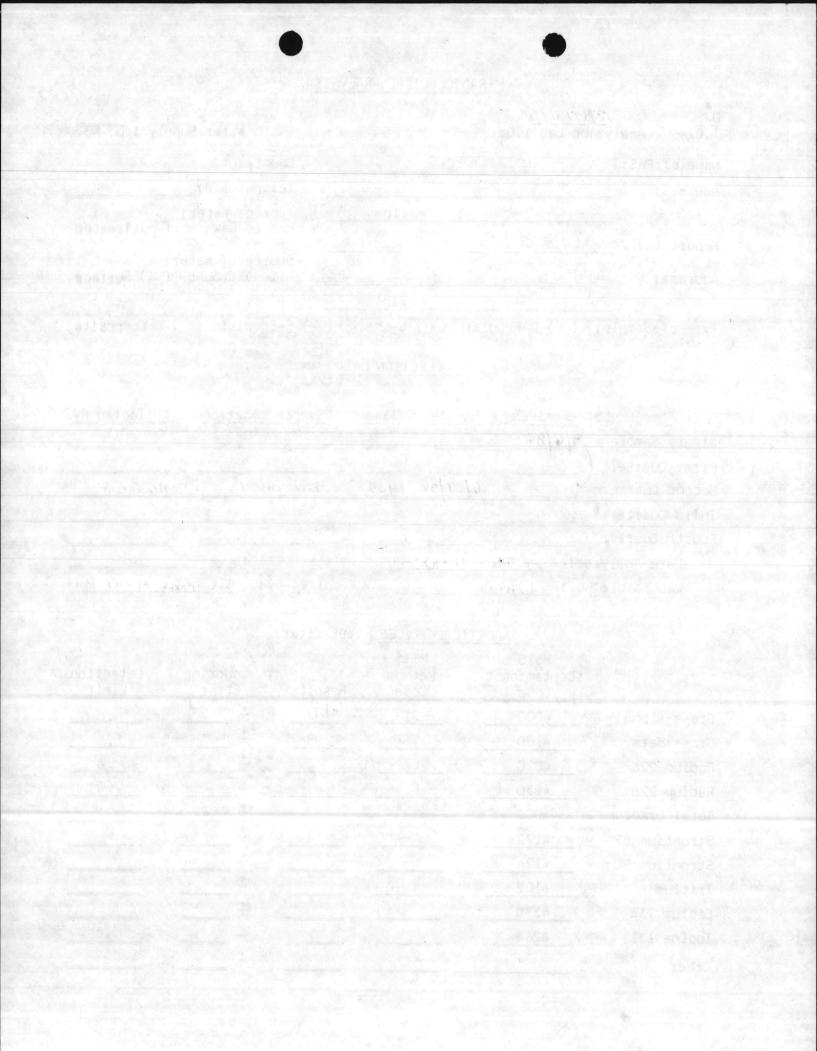
	/2/1/7/0/0/ yzing Lab I.D.	<u>04 - 67 - 047</u> Water Supply I.D. No.
Name of PWS:	COURTHOUSE BAY	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water:
Report to:	COMMANDING GENERAL	() Raw (X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X ) Ground ( ) Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Sampl	Le: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

## COLLECTION DATA

	Date Received	Date <u>Sample</u>	Time	Sample Location	Collected By
Single Sample	1/6/84				
First Quarter		A Carlos Carlos			
Second Quarter	7	6/27/34	1405	BLDG BB-7	HUNBYCUTT
Third Quarter	111 A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				
Fourth Quarter			Maria Maria		100 100 100 100 100 100 100 100 100 100
Date Analyz	ed: SEE G	LI LTR 9-13	-84	Date Reported:	
Lab Sample	No .: 13 A	+B		Reported by: SEE	GLI LTE 9-13-84

## ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	_401	<1.0	±	1.0
Gross Beta	4100	401	2.8	±	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006		1. <u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>	±	
Strontium 89	4172		-	±	
Strontium 90	4174	i de la constante de la constante Novembre de la constante de la c		<u>+</u>	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264	internetien an erste seinen. Geher <u>erste seine</u> er	enderspectralen er en	±	
Other				±	



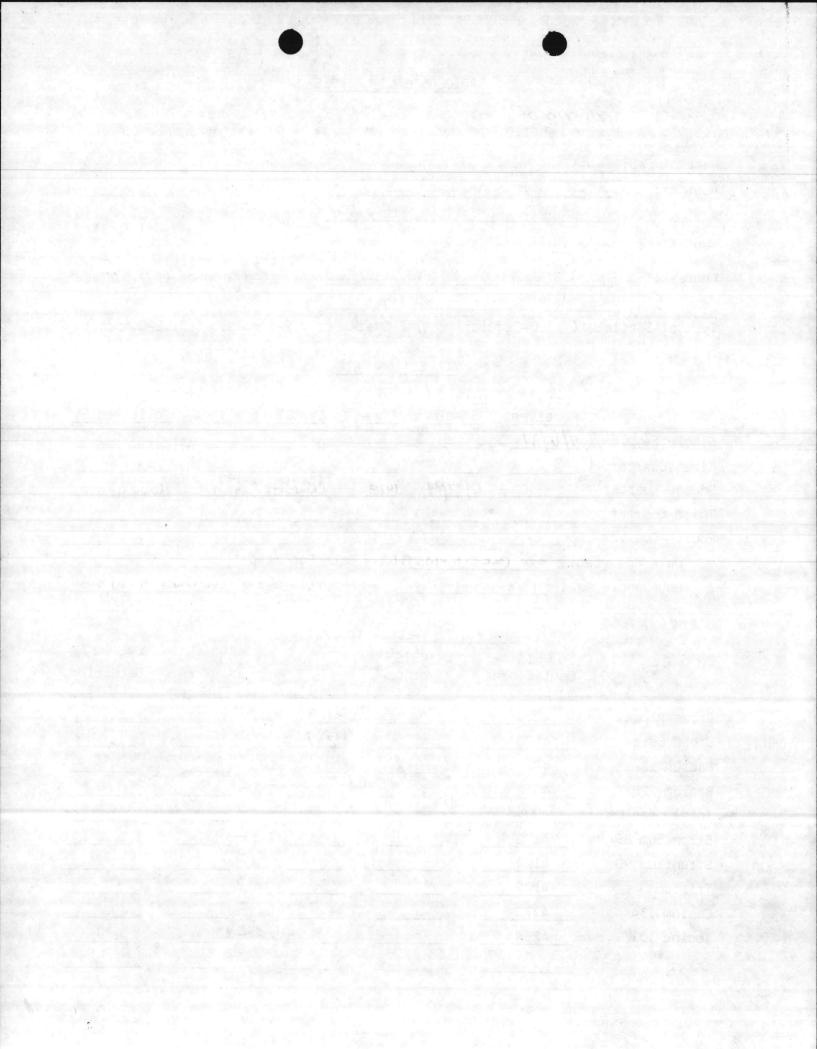
<u>0/9</u> T.C. Ana	/ <u>2/1/7/0/0/</u> lyzing Lab I.D.	04- <u>67</u> - <u>048</u> Water Supply I.D. No.
Name of PWS:	ONSLOW BEACH	County: ONSLOW
Address:	MARINE CORPS BASE .	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water:
Report to:	COMMANDING GÉNERAL	() Raw (X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X ) Ground ( ) Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Samp	ole: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

## COLLECTION DATA

Single Sample	Date Received	Date <u>Sample</u>	<u>Time</u>	Sample Location	Collected By
First Quarter Second Quarter Third Quarter Fourth Quarter		4/27/84	<u>1418</u>	UMPSITE SPIGOT	NUNEACUT
Date Analyz		B B	And a start of	ate Reported: eported by:	GII LTR 9-13-84

# ANALYTICAL VALUES (pCi/liter)

		and the second se			
	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	<1.0	<u>+</u>	_1.0
Gross Beta	4100	401	2.7	<u>+</u>	
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006	n the offer		±	
Strontium 89	4172			±	
Strontium 90	4174			±	and the second
Tritium	4102			±	an a
Cesium 134	4270			±	100
Iodine 131	4264		Alexandra Sector	±	et i son de la compañía
Other				<u>+</u>	



GRAINGER LABORATORIES

## RADIOLOGICAL ANALYSIS

<u>0/9</u> T.C. Anal	/ <u>2/1/2/0/</u> 0/ Lyzing Lab I.D.	<u>0</u> 4 - 67 - 041 Water Supply I.D. No.
Name of PWS: Address:	HADNOT POINT MARINE CORPS BASE	County: ONSLOW
Report to:	CAMP LEJEUNE, NC Zip 28542 COMMANDING GENERAL	Type of Water: ( ) Raw (X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE CAMP LEJEUNE, NC Zip 28542	Source of Water: (X) Ground ( ) Surface
Type of Samp]	Le: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

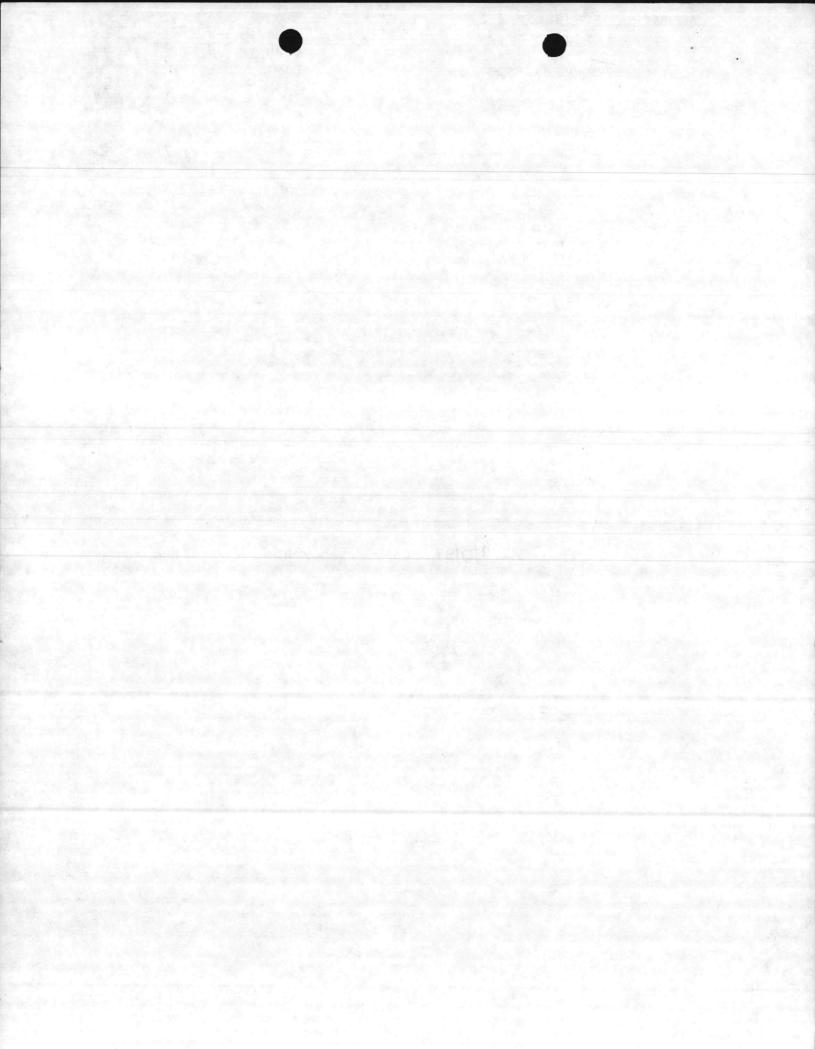
#### COLLECTION DATA

	Date <u>Receivea</u>	Date <u>Sample</u>	Time	Sample Location	Collected By
Single Sample	, 10/31/84				
First Quarter	-			Descence of the Party of the Pa	
Second Quarter	· · · · ·				a a star a st
Third Quarter	7	9/21/84	0830	BLDC 65	HUNEYCUTT
Fourth Quarter	B Property and a second second second second				0-0
Date Analyze	d: 11/1	2/84	D	ate Reportec:	12/17/84
Lab Sample No		190-19	R	eported by:	on such

VOLUTE

McCoy & McCoy, Inc.

	ANALYII	ICAL VALUES	(pli/liter)			
	MSIS Contaminant Cooe	MSIS Methoa Code	Results	Counting Error	Detection Limit	
Gross Alpha	4000	401	< 1.0	+ _	1.0	
Gross Beta	4100	401	4.1	± 2.9	1.0	
Radium 226	4020	417	Martinita your 2.40 Annual Marting and a ser		0.6	
Radium 228	4030	418		*)- 	0.4	
Total Uranium	4006			+		
Strontium 89	4172	ale <u>and a</u> le		+	Sec. 4900 - 4900 - 4900 - 49, 1900 - 49, 1900 - 49, 1900 - 49, 1900 - 49, 1900 - 49, 1900 - 49, 1900 - 49, 190	
Strontium 90	4174					
Tritium	4102					
Cesium 134	4270	an <u>1478</u> 1.091		+		
lodine 131	4264			+		
Other				+		



GRAINGER

0/9 T.C. Ana	/ <u>2/1/2/0/</u> 0/ lyzing Lab I.D.		67 _ 042 Supply I.D. No.
Name of PWS:	MCAS - NEW RIVER	County:	ONSLOW
Address:	MARINE CORPS BASE	Telephone #:	
	CAMP LEJEUNE, NC Zip 28542	Type of Wate	r:
Report to:	COMMANDING GENERAL	( ) Raw	(X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Wa (X) Groun	ter: d ( ) Surface
	CAMP LEJEUNE, NC Zip 28542		
Type of Samp	le: (X) D-Recular ( ) C-Check (	S-Special (	) E-Composite

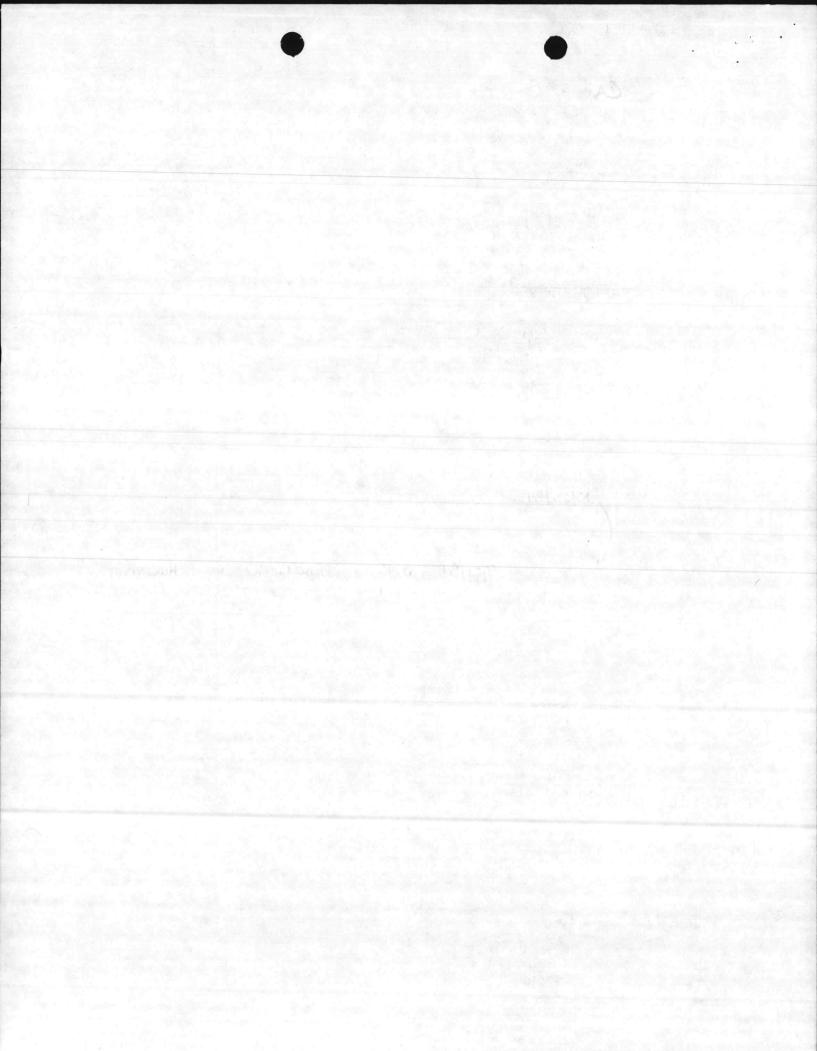
## COLLECTION DATA

	Date Receiveo	Date <u>Sample</u>	Time	Sample Location	<u>Collected By</u>
Single Sample	10/25/84				-
First Quarter (					-
Second Quarter					-
Third Quarter		9/21/84	0945	BLDC G-770	HUNEYCUTT
Fourth Quarter	Beauty and an and the state of the state	the state of the s	Built research and		$\cap$
Date Analyze	d: 11/	02/84	Da	ate Reported:	11/30/84
Lab Sample No	84-12	2021-23	Re	eported by:	In A mith

17 :

McCoy & McCoy, Inc.

	ANALYTICAL VALUES		(pCi/liter)		
	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gros. Alpha	4000	401	< 1.0	±	0
Gross Beta	4100	401	8.7	<u>+</u> 3.3	1.0
Radium 226	4020	417	< 0.6	<u>+</u>	0.6
Radium 228	4030	418	< 0.4	<u>+</u>	0.4
Total Uranium	4006		an a	<u>+</u>	
Strontium 89	4172	To day lot to service of the set of the service of the set of the		+	
Strentium 90	4174			+	
Tritium	4102				
Cesium 134	4270		lande standardstander and standardstander Standardstander standardstander standardstander standardstander standardstander standardstander standardstander	<u>+</u>	
lodine 131	4264			+	
Other	-			<u>+</u>	



GRAINGER LABORATORIES

Second Quarter

Third Quarter

Fourth Quarter

Other

Date Analyzed:

#### RADIOLOGICAL ANALYSIS

	/2/1/2/0/ yzing Lab I.D.	<u>04</u> - <u>67</u> - <u>043</u> Water Supply I.D. No	-
Name of PWS:	HOLCOMB BLVD	County: ONSLOW	
Address:	MAPINE CORPS BASE	Telephone #:	
Report to:	CAMP LEJEUNE, NC Zip 28542	Type of Water: ( ) Raw (X) Treater	C
Address:	ATTN: NREA, MARINE CORPS BASE CAMP LEJEUNE, NC Zip 28542	Source of Water: (X) Ground ( ) Surface	e
Type of Sampl	e: (X) D-Regular () C-Check (	) S-Special ( ) E-Composite	e
	COLLECTION DATA	and the second se	
Single Sample First Quarter	/10/25/84	ample Location Collected By	× I

0851

BLDG 4022

Date Reporteo:

9/21/84

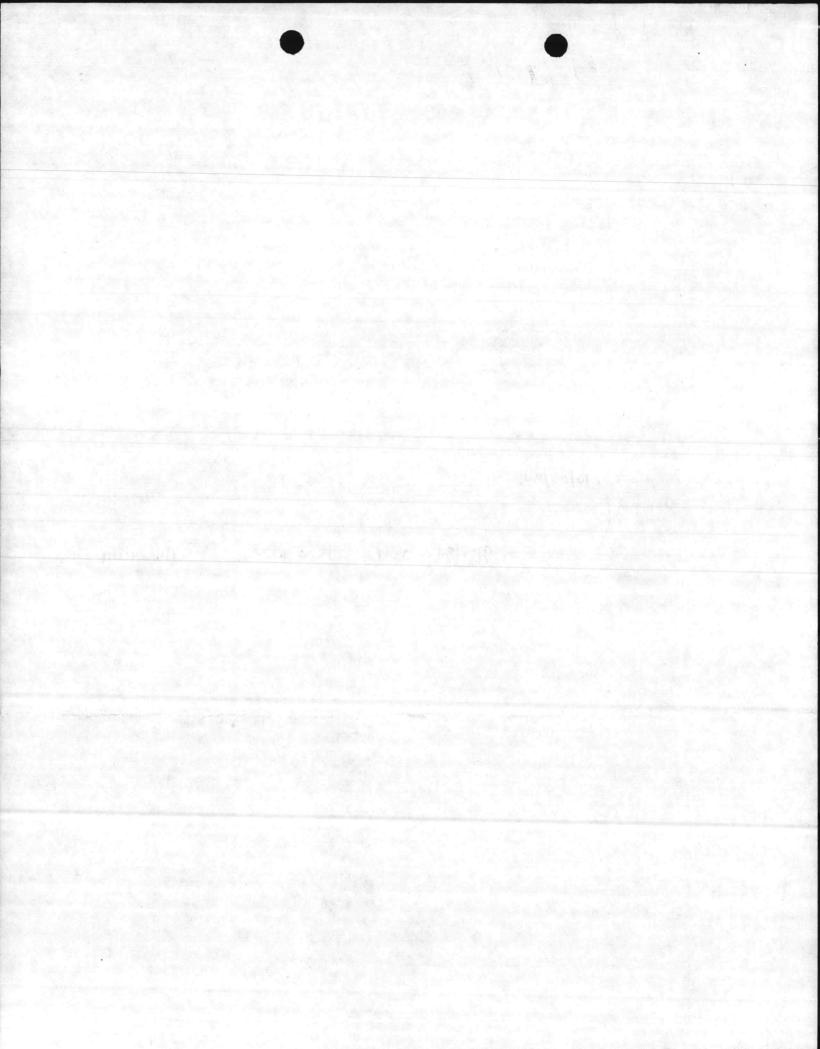
11/12/84

Lab Sample No.:85-1190-17		Reported b	y:	A on mith		
	ANALYTICAL VALUES		(pCi/liter)		cCoy & 1	leCoy, Inc.
	MSIS Contaminant Code	MSIS Method Code	Results		nting ror	Detection Limit
Gross Alpha	4000	401	< 1.0	<u>+</u>		1.0
Gross Beta	4100	401	3.6	+	2.8	1.0
Radium 226	4020	417	Non-municipal many young an	+ _	- de la composición d	0.6
Radium 228	4030	418		* -		0.4
Total Uranium	4006			+		
Strontium 89	4172	P1118-000-000-000-000-000-000-000-000-000		+		Maria and S
Strontium 90	4174			<u>+</u>		
Tritium	4102	-	Provide and a providence and a	<u> </u>		
Cesium 134	4270			+		
lodine 131	4264			<u>+</u>		

(ENCLOSURE 2)

HUNEYCUTT

12/11/84



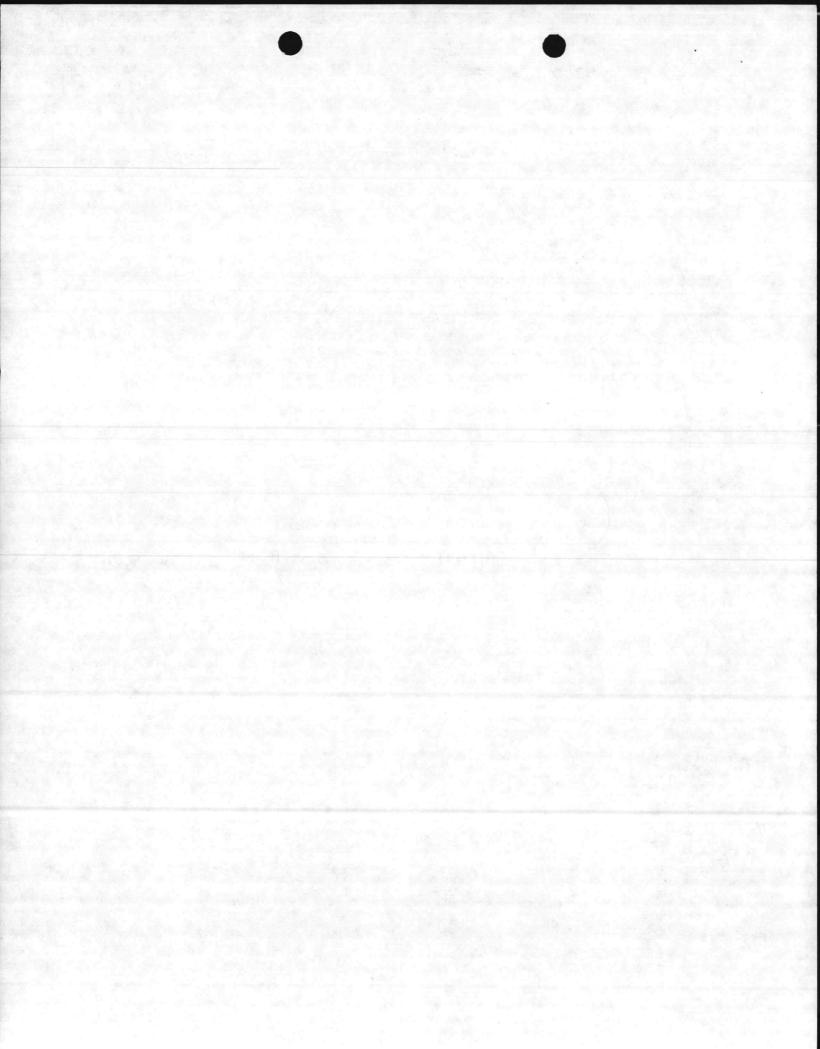
	/_2/_1/_7/_0/_0/ .yzing Lab I.D.	<u>04-67-044</u> Water Supply I.D. No.
Name of PWS:	TARAWA TERRACE	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water:
Report to:	COMMANDING GENERAL	() Raw (X) Treateo
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: (X) Ground () Surface
	CAMP LEJEUNE, NC Zip 28542	and the second
Type of Sampl	e: (X) D-Regular () C-Check (	) S-Special ( ) E-Composite

## COLLECTION DATA

	Date <u>Receiveo</u>	Date Sample	Time	Sample Location	Collected By
Single Sample	10/31/84				
First Quarter /					-
Second Quarter					
Third Quarter	7	9/21/84	0905	BLDG TT-44	HUNEYCUIT
Fourth Quarter		• 1			0-0
Date Analyz	ed: 11/1	2/84	Da	ate Reported:	12/11/84
Lab Sample 1	No.: 85-1	190-18	Re	eported by:	for mith

McCoy & McCoy, Inc.

	ANALYTICAL VALUES		(pCi/liter)				
	MSIS Contaminant Coce	MSIS Method Code	Results		nting ror	Detection Limit	
Gross Alpha	4000	401	< 1.0	+	-	1.0	
Gross Beta	4100	401	4.2	+	2.9	1.0	
Radium 226	4020	417		+		0.6	
Radium 228	4030	418		±		0.4	
Tetal Uranium	4006	Annual suradiants another metal de		+			
Strontium 89	4172			+			
Strontium 90	4174			<u>+</u>			
Tritium	4102						
Cesium 134	4270			+			
Iodine 131	4264			+			
Other				<u>+</u> .			



GRAINGER LABORATORIES.

#### RADIOLOGICAL ANALYSIS

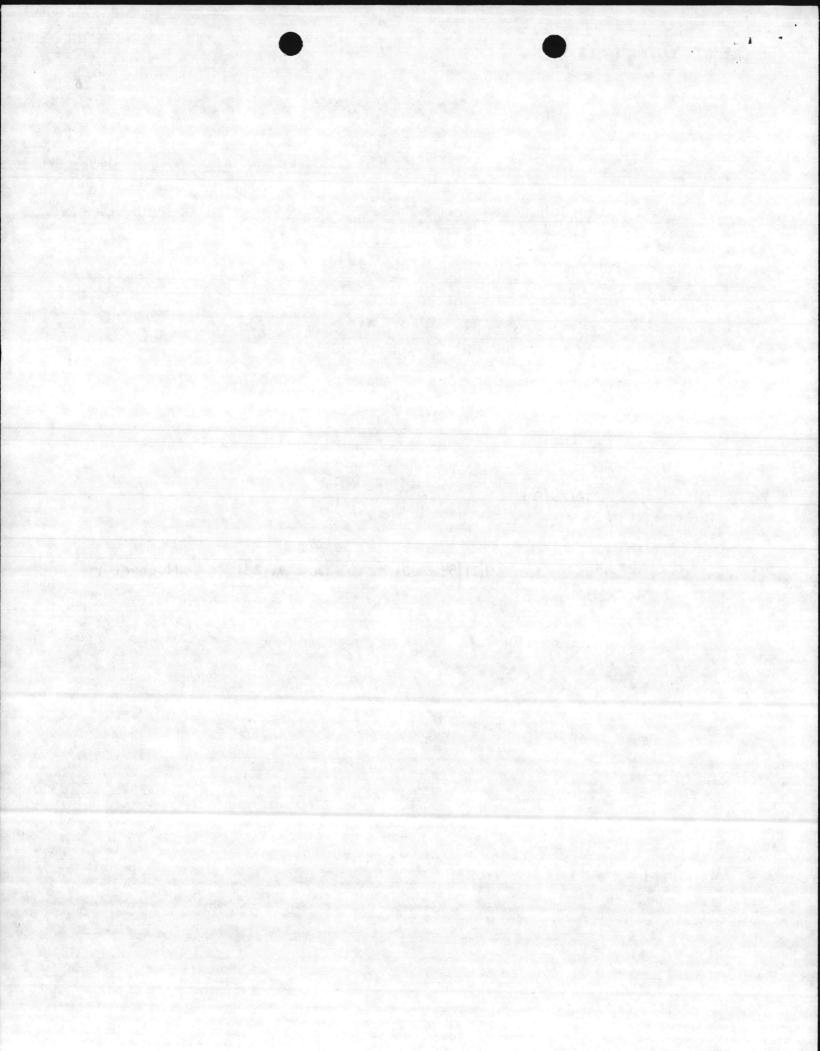
0/9 T.C. Anal	/2/1/2/0/0/ yzing Lab I.D.	<u>04-67-045</u> Water Supply 1.D. No.
Name of PWS:	CAMP JOHNSON	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water: ( ) Raw ( <b>x</b> ) Treated
Report to: Address:	COMMANDING GENERAL ATTN: NREA, MARINE CORPS BASE	Source of Water: (x) Ground ( ) Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Sampl	e: (X) D-Regular ( ) C-Check (	) S-Special ( ) E-Composite

#### COLLECTION DATA

i i i i i i i i i i i i i i i i i i i	Date Receiveo	Date <u>Sample</u>	Time	Sample Location	Collected By
Single Sample /_	10/25/84				
First Quarter /				Disease in a subsection of the	مود که دارد از مواد و از مواد و از مواد و مواد و مواد و مواد و
Second Quarter				a management and an and an and an and an and a second and a second and an and a second and an an and a second a	
Third Quarter	1	9/21/84	0924	BUDG M-231	HUNEYCUTT
Fourth Quarter				(	)
Date Analyzed	: 11/02	2/84	Da	ate Reporteo:	1/30/84
Lab Sample No.	.: 84-120	021-24	Re	eported by:	m mith

McCoy & McCoy, Inc.

	ANALYTICAL VALUES		(pCi/liter)		
	MSIS Contaminant Coce	MSIS Method Cope	Results	Counting Error	Detection Limit
Gros Alpha	4000	401	< 1.0	+ -	1.0
Gross Beta	4100	401	1.5	<u>+</u> 0.9	1.0
Radium 226	4020	417		+	0.6
Radium 228	4030	418		+	0.4
Total Uranium	4006			+	
Strontium 89	4172			+	
Strontium 90	4174	have go and a second	-	4)- 	ana ang ang ang ang ang ang ang ang ang
Tritium	4102				
Cesium 134	4270	a na sa	· · · · · · · · · · · · · · · · · · ·	+	
Iodine 131	4264		<u> </u>	<u>+</u>	An output sold the state of a submer
Other				+	
			Notes and the second second	(ENCLOS	URE 2)



GRAINGER

Other

0/9 T.C. Anal	/ <u>/////0/0/</u> yzing Lab I.D.		67 _ 046 upply I.D. No.
Name of PWS:	RIFLE RANGE	County:	ONSLOW
Address:	MARINE CORPS BASE	Telephone #:	
	CAMP LEJEUNE, NC Zip 28542 COMMANDING GENERAL	Type of Water ( ) Raw	: (X) Treated
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Wat ( X) Ground	er: ( ) Surface
	CAMP LEJEUNE, NC Zip 28542 e: (X) D-Regular () C-Check ()	S-Special (	) E-Composite

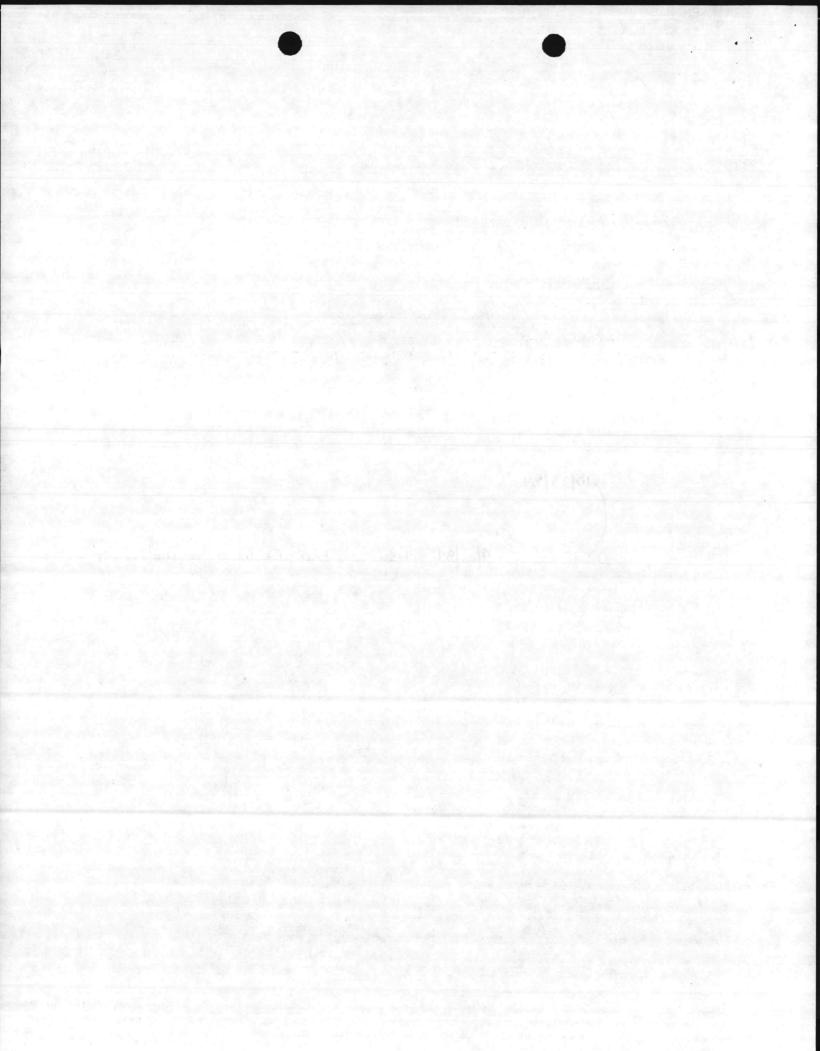
#### COLLECTION DATA

	Date <u>Receiveo</u>	Date Sample	Time	Sample Location	Collected By
Single Sample	10/25/84				
First Quarter		anna Album nyang mantu kaung yang bag		Freedom, and an and an an an and a second	
Second Quarter		A			
Third Quarter	7	9/21/84	1135	BLDG RR-10	HUNEYCUTT
Fourth Quarter	8. W. 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	1 1		(	20
Date Analyz	red: 11/0	2/84	Da	ate Reporteo:	1/1/80/84
Lab Sample	No.: 84-120	21-22	Re	ported by:	minth

ANALYTICAL VALUES (pCi/liter) MSIS MSIS Counting Method Detection Contaminant Results Error Limit Code Code + 1,0 Gross Alpha 4000 401 < 1.0 + 1,0 Gross Beta 401 4100 < 1.0 + Radium 226 4020 417 0.6 + Radium 228 4030 418 0.4 + Total Uranium 4006 + Strontium 89 4172 + 4174 Strontium 90 Tritium 4102 + Cesium 134 4270 + Iodine 131 4264 +

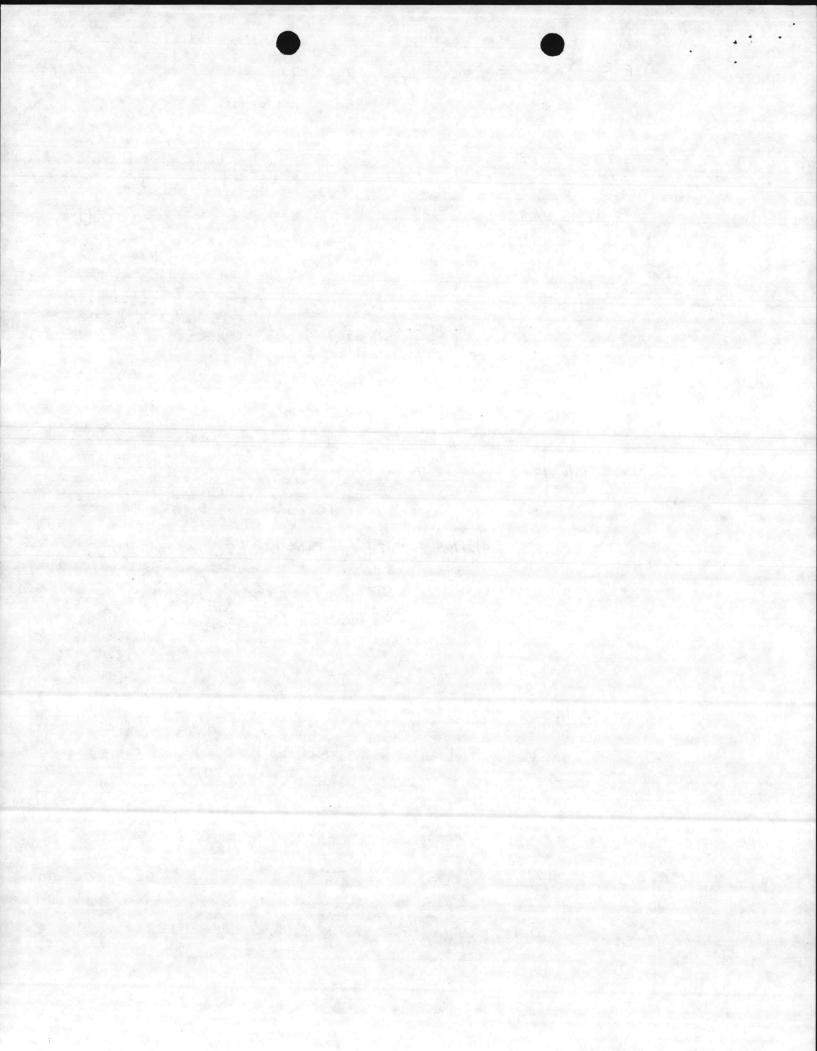
(ENCLOSURE 2)

McCoy & McCoy, Inc.



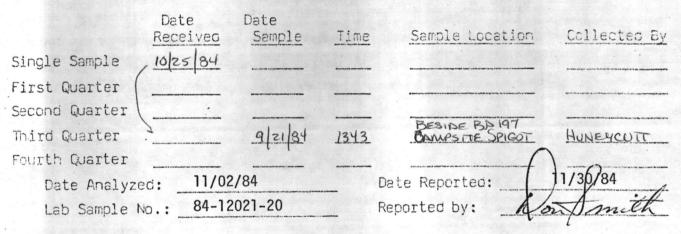
0/9 T.C. Ana	/ <u>2/1/2/0/0/</u> alyzing Lab I.D.				67 - 047 Supply 1.D. No.
Name of PWS:	COURTHOUSE BAY		Cou	unty:	ONSLOW
Address:	MARINE CORPS BAS	E	Te	lephone #:	
Report to:	CAMP LEJEUNE, NO COMMANDING GENER	Provide and the second s	542 Ty	ce of Wate ( ) Raw	r: (X) Treateo
Address:	ATTN: NREA, MARI			urce of Wa (X) Groun	ter: d ( ) Surface
	CAMP LEJEUNE, NO				
Type of Samp	ble: (X) D-Regular	( ) C-Chec	:k () S-:	Special (	) E-Composite
		COLLECTION D	ATA		
		e <u>mple Time</u>	Sample	Location	Collected By
Single Sampl	/				
First Quarte					and the design of a fee classical sugarity and the
Third Quarte		21/84 1312	BLOC	BB-7	HUNFYCUTT
Fourth Quart			la mana di salarita e tata		1
Date Ana	alyzed: 11/02/	34	Date Repor	ted: <u>(1</u>	1/30/84
Lab Samp	ble No.: 84-12021-	21	Reported b	y: A	of mith
	ANALYTI	CAL VALUES	(pCi/liter)	МеСоу	& McCoy, Inc.
	MSIS Contaminant Code	MSIS Method Code	Results	Countin	Detection
Gross Alpha	4000	401	< 1.0	+	1.0
Gross Beta	4100	401	1.1	+ 0.	7 1.0

Gross Alpha	4000	401	< 1.0		1.0
Gross Beta	4100	401	1.1	<u>+ 0.7</u>	1.0
Radium 226	4020	417		+	0.6
Radium 228	4030	418	Barr Marcel and Party State State States	+ 	0.4
Total Uranium	4006			+	
Strontium 89	4172			+	
Strontium 90	4174			+	
Tritium	4102				
Cesium 134	4270			+	
Iodine 131	4264			+	Economic and an economic states and
Other				. +	



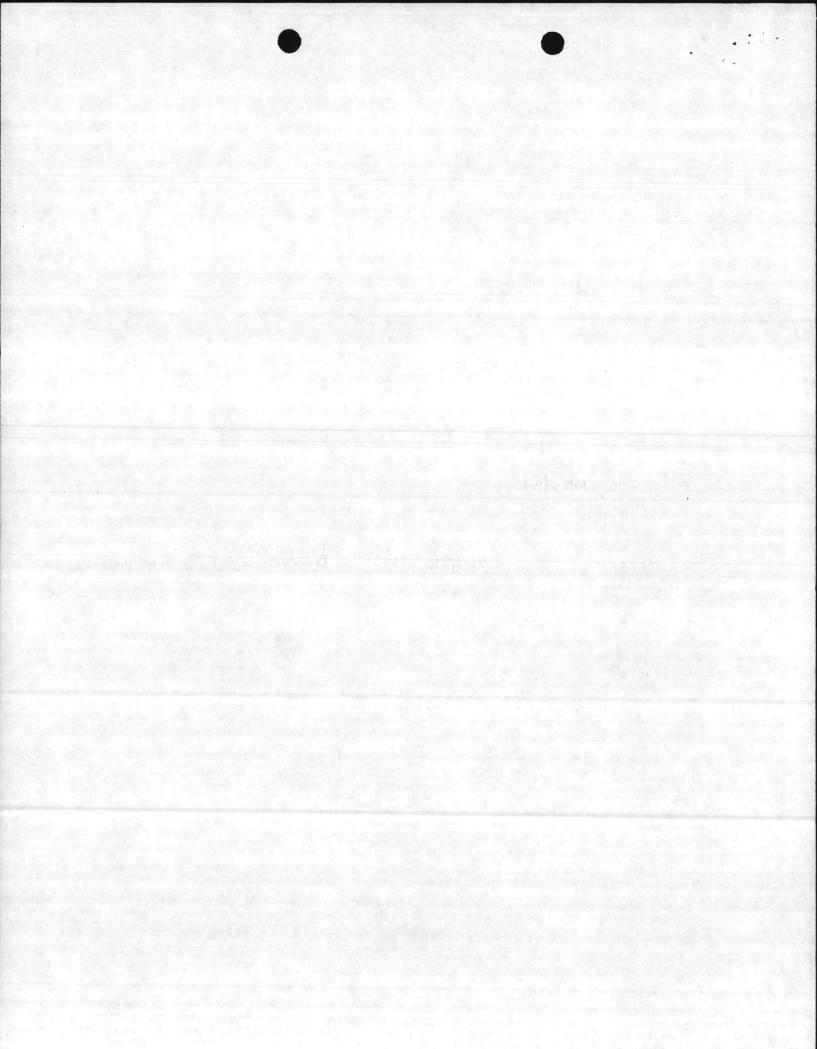
<u>0/9</u> T.C. Anal	/ <u>2/1/2/0/0/</u> yzing Lab I.D.	<u>0</u> <u>4</u> <u>-</u> <u>67</u> <u>-</u> <u>048</u> Water Supply 1.D. No.
Name of PWS:	ONSLOW BEACH	County: ONSLOW
Address:	MARINE CORPS BASE	Telephone #:
	CAMP LEJEUNE, NC Zip 28542	Type of Water: () Raw (x) Treated
Report to:	COMMANDING GENERAL	Same of hoter
Address:	ATTN: NREA, MARINE CORPS BASE	Source of Water: ( X) Ground ( ) Surface
	CAMP LEJEUNE, NC Zip 28542	
Type of Sampl	e: (x) D-Recular ( ) C-Check (	) S-Special ( ) E-Composite

#### COLLECTION DATA

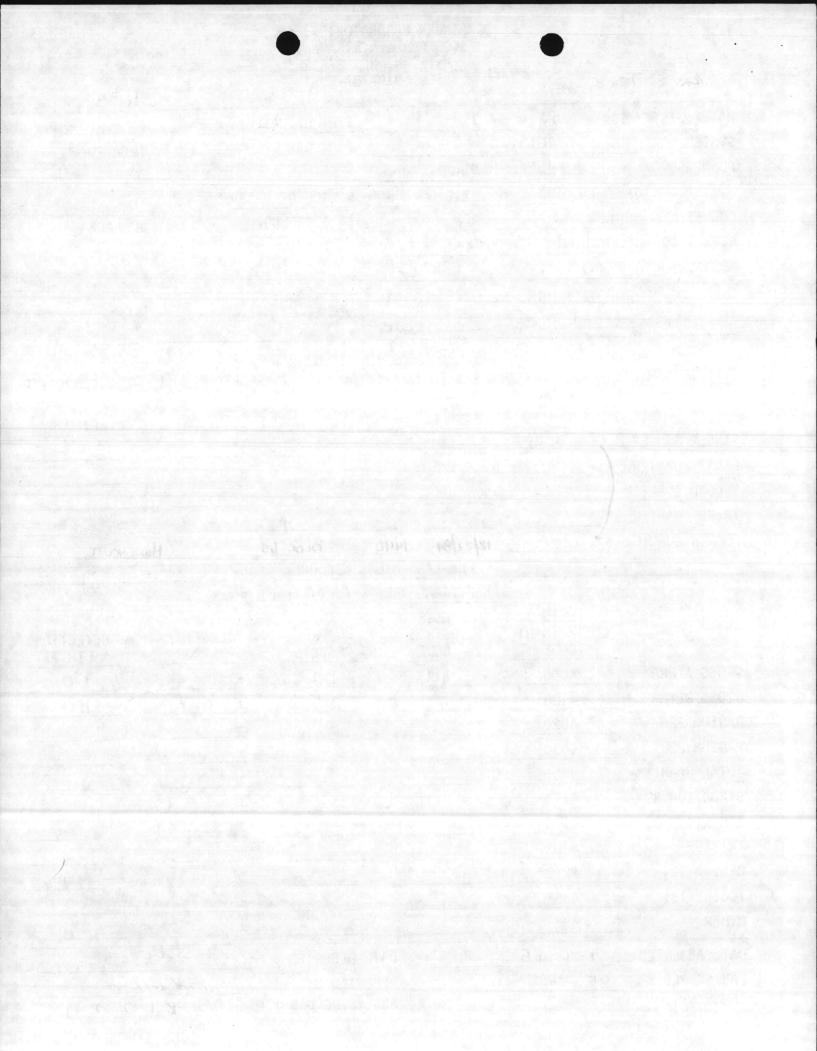


McCoy & McCoy, Inc.

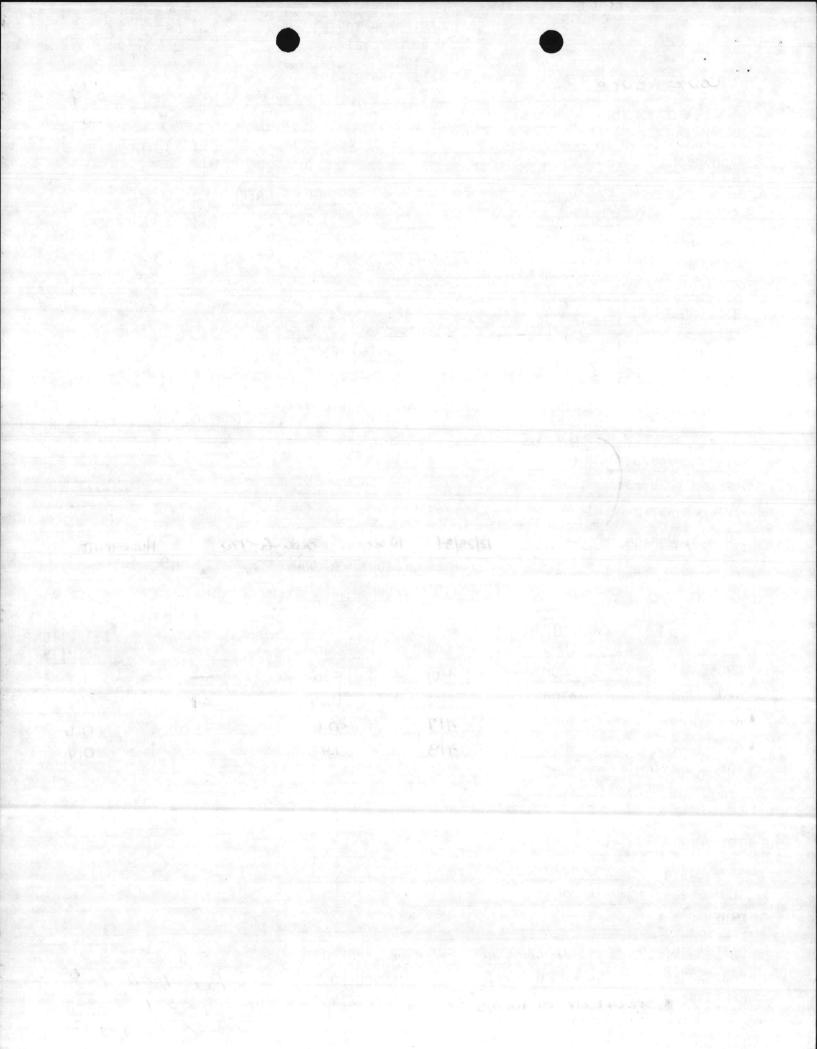
	ANALYTI	ICAL VALUES	(pCi/liter)		
	MSIS Contaminant Cooe	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	±	1.0
Gross Beta	4100	401	1.3	<u>+</u> 0.8	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		+	0.4
Total Uranium	4006			+	
Strontium 89	4172			+	
Strontium 90	4174			<u>+</u>	
Tritium	4102				
Cesium 134	4270			+	
lodine 131	4264			+	
Other				+	-



S. C. Mark	Bine	Raleigh,	ncial Avenu NC 27612 9-787-3061		C#+ #0
WATER SYSTEM	ID# 04 - 6	7 - 0 4 1	TYPE OF WA	TFR.	Site#3
	HADNOT POINT		() RAW	( x	) TREATED
Sector Contraction of the sector of the	MARINE CORPS B	ASE		(X	, INCAILD
CA	MP LEJEUNE, NC	ZIP 28542	SOURCE OF	WATER:	
COUNTY: ON	SLOW	- 14 Mar 19 19 19 19	(X) GROUN	and the second	) SURFACE
REPORT TO: CO	MMANDING GENER	AL			, con , ce
ADDRESS: AT	TN: NREA, MARI	NE CORPS BA	SE		
CA	MP LEJEUNE, NC ( )	ZIP 28542			
SINGLE SAMPLE FIRST QUARTER SECOND QUARTER THIRD QUARTER	<u>RECEIVED</u> <u>4-5-85</u>	<u>SAMPLE</u> <u>T</u>	IME SAMPI	LE LOCATION	COLLECTED B
FOURTH QUARTER	1	12/27/84 144	0 BLAC (	5	Hunshoutt
	4	12/27/84 144 FOR LABORAT	DRY USE ONLY	5	HUNEYCUTT
	A	FOR LABORAT			HUNEYCUTT
		FOR LABORAT	ORY USE ONLY	<u>·)</u> COUNTING	G DETECTIO
FOURTH QUARTER	AI MSIS CONTAMINANT	FOR LABORAT VALYTICAL VAL MSIS METHOD	DRY USE ONLY JES (pCi/liter 	COUNTING	G DETECTIO
FOURTH QUARTER	AI MSIS CONTAMINANT CODE	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE	ORY USE ONLY JES (pCi/liter	COUNTING	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA	AI MSIS CONTAMINANT CODE 4000	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	COUNTING ERROR ± 0.8	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228	AI MSIS CONTAMINANT CODE 4000 4100	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\frac{\text{COUNTING}}{\text{ERROR}}$ $\frac{\pm 0.8}{\pm 0.74}$	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM	AI MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\frac{COUNTING}{ERROR}$ $\frac{\pm 0.8}{\pm 0.77}$ $\pm$	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89	AI MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\frac{COUNTING}{ERROR}$ $\frac{\pm 0.8}{\pm 0.77}$ $\frac{\pm}{\pm}$	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	<u>MSIS</u> CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\begin{array}{r} \underline{\text{COUNTING}} \\ \underline{\text{COUNTING}} \\ \underline{\text{ERROR}} \\ \underline{\pm} \\ \underline{0.8} \\ \underline{\pm} \\ \underline{0.77} \\ \underline{\pm} \\ \underline{\pm} \\ \underline{\pm} \\ \underline{\pm} \\ \underline{\pm} \\ \underline{\pm} \end{array}$	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174 4102	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\begin{array}{r} \underbrace{\text{COUNTING}} \\ \underline{\text{COUNTING}} \\ \underline{\pm} \\ \underline{0.8} \\ \underline{\pm} \\ \underline{0.77} \\ \underline{\pm} $	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\begin{array}{r} \underline{\bullet} \\ $	G DETECTIO
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174 4102	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter RESULTS	$\begin{array}{r} \underbrace{\text{COUNTING}} \\ \underline{\text{COUNTING}} \\ \underline{\pm  0.8} \\ \underline{\pm  0.77} \\ \pm $	G DETECTIO
	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401 401	DRY USE ONLY JES (pCi/liter RESULTS	$\begin{array}{r} \underline{\bullet} \\ $	G DETECTIO LIMITS 1.0 1.0

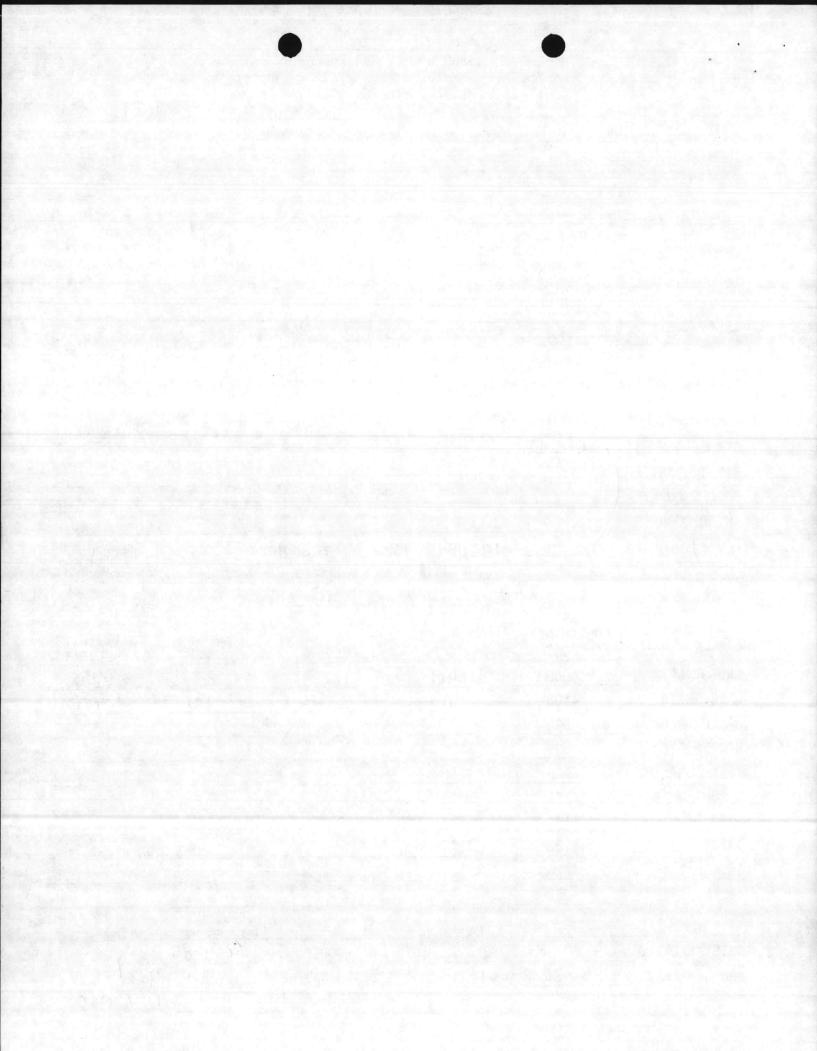


<u> </u>	Red William and an and	and the second	-787-3061	an in the 1999.	Site #7
WATER SYSTEM			TYPE OF WA	TER:	
A REAL PROPERTY OF A REAL PROPER	CAS - NEW RIVE		( ) RAW	( X)	TREATED
	ARINE CORPS BA				
	MP LEJEUNE, NC	ZIP 28542	SOURCE OF 1	WATER:	
	SLOW		(X) GROUNI	D ()	SURFACE
	MMANDING GENER	AL			
• • • • • • • • • • • • • • • • • • • •	TN: NREA, MAR	and the second sec	ASE		
CA	MP LEJEUNE, NC	ZIP 28542			
TELEPHONE:	( )				
FIRST QUARTER					
SECOND QUARTER THIRD QUARTER			DRY USE ONLY		IUNEYCUTT
SECOND QUARTER THIRD QUARTER	A	FOR LABORATO			luneycutt
SECOND QUARTER THIRD QUARTER		FOR LABORATO	DRY USE ONLY		DETECTION
SECOND QUARTER THIRD QUARTER FOURTH QUARTER	MSIS CONTAMINANT	FOR LABORATO NALYTICAL VALU MSIS METHOD	DRY USE ONLY JES (pCi/liter	COUNTING	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER	MSIS CONTAMINANT CODE	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE	DRY USE ONLY JES (pCi/liter 	COUNTING ERROR	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA	MSIS CONTAMINANT CODE 4000	FOR LABORATO VALYTICAL VALU MSIS METHOD CODE 401	DRY USE ONLY JES (pCi/liter 	COUNTING ERROR ±	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226	MSIS CONTAMINANT CODE 4000 4100	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401	DRY USE ONLY JES (pCi/liter 	COUNTING ERROR ± ± 3	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM	AI MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 	COUNTING ERROR ± ± ± ±	DETECTION LIMITS 1.0 1.0 0.6
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 	COUNTING ERROR ± ± ± ± ± ±	DETECTION LIMITS 1.0 1.0 0.6
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	AI MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 		DETECTION LIMITS 1.0 1.0 0.6
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 	) COUNTING ERROR <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>	DETECTION LIMITS 1.0 1.0 0.6
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 29 STRONTIUM 90 TRITIUM CESIUM 134	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 	<u> COUNTING</u> <u>ERROR</u> <u> ± </u> <u> ±</u>	DETECTION LIMITS 1.0 1.0 0.6
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 FOTAL URANIUM STRONTIUM 29 STRONTIUM 90 FRITIUM CESIUM 134 FODINE 131	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 	<u> COUNTING</u> <u> ERROR <u> </u> <u> + </u></u>	DETECTION LIMITS 1.0 1.0 0.6
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 29 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORATO NALYTICAL VALU MSIS METHOD CODE 401 401 2417	DRY USE ONLY JES (pCi/liter 		DETECTION LIMITS 1.0 1.0 0.6
	All MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORATO	DRY USE ONLY JES (pCi/liter 	) COUNTING ERROR <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>	DETECTION LIMITS 1.0 1.0 0.6 0.4

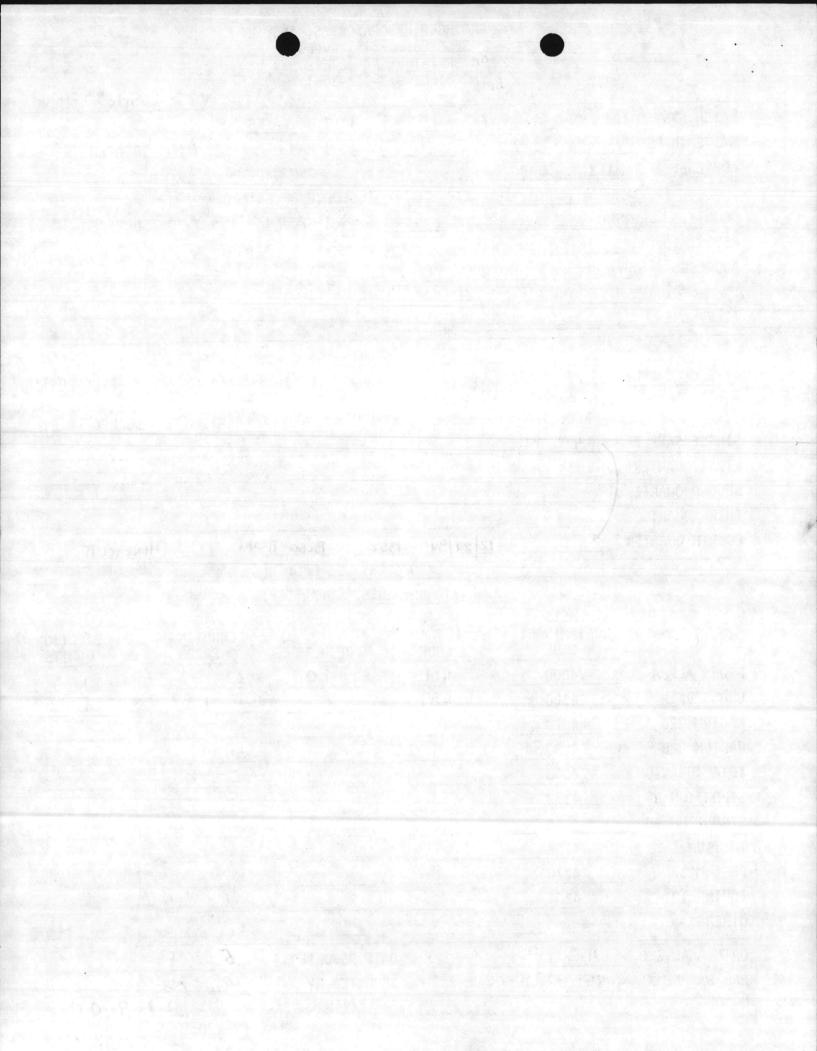


			cial Avenue		
			NC 27612 -787-3061		
				Si	te#1
WATER SYSTEM I		<u>7 - 0 4 3</u>	TYPE OF WAT	ER:	
SYSTEM NAME: H	and the second		_ ( ) RAW	( X)	TREATED
ADDRESS: <u>N</u>	MARINE CORPS	BASE			
0.01111714	MP LEJEUNE, NC	ZIP 28542			
	DNSLOW		( x) GROUND	()	SURFACE
and the second	MANDING GENER				
	TN: NREA, MARI	and the second	SE		
A CONTRACTOR OF A CONTRACTOR O	AP LEJEUNE, NC	ZIP 28542			
TELEPHONE:	(				
		SAMPLE IN			an in the search
TYPE OF SAMPLE:	: (X) D-REGUL	AR ( ) C-	CHECK ()	S-SPECIAL (	) E-COMPOSITE
	DATE RECEIVED	DATE SAMPLE T	IME SAMPL	E LOCATION	COLL FOTED DV
SINGLE SAMPLE	1 4-5-85	SAMPLE 1	IPIL SAMPL	LUCATION	COLLECTED BY
	/		The Automation	the second s	
FIRST OUARTER					
a state of the second					1000
SECOND QUARTER	(				
SECOND QUARTER THIRD QUARTER	\	2/27/84 13:			MALEYCOTT
SECOND QUARTER THIRD QUARTER	\	2/27/84 13: FOR LABORAT	26 BLDC 40 ORY USE ONLY	022	LUMERCUTT
SECOND QUARTER THIRD QUARTER		FOR LABORAT			JUNEYCUTT
FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER	MSIS AI	FOR LABORAT VALYTICAL VAL MSIS	ORY USE ONLY	)	JUMERCUTT
SECOND QUARTER THIRD QUARTER	MSIS CONTAMINANT	FOR LABORAT VALYTICAL VAL MSIS METHOD	ORY USE ONLY UES (pCi/liter	) COUNTING	DETECTION
SECOND QUARTER THIRD QUARTER	MSIS CONTAMINANT CODE	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE	ORY USE ONLY UES (pCi/liter 	) COUNTING ERROR	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER	MSIS CONTAMINANT	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$\frac{COUNTING}{ERROR}$ $\pm 0.8$	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA	MSIS CONTAMINANT CODE 4000	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE	ORY USE ONLY UES (pCi/liter 	$\frac{COUNTING}{ERROR}$ $\frac{\pm 0.8}{\pm 1.70}$	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226	MSIS CONTAMINANT CODE 4000 4100	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$\frac{COUNTING}{ERROR}$ $\frac{\pm 0.8}{\pm 1.00}$ $\pm$	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228	MSIS CONTAMINANT CODE 4000 4100 4020	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$\frac{COUNTING}{ERROR}$ $\frac{\pm 0.8}{\pm 1.70}$ $\frac{\pm}{\pm}$	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM	MSIS CONTAMINANT CODE 4000 4100 4020 4030	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$\frac{COUNTING}{ERROR}$ $\frac{\pm 0.8}{\pm 1.00}$ $\pm$	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$ \begin{array}{r}         COUNTING \\         ERROR \\         \pm 0.8 \\         \pm 1.70 \\         \pm \\         \pm \\         \pm \\         $	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$\begin{array}{r} \begin{array}{c} \text{COUNTING} \\ \text{ERROR} \\ \underline{\pm} & 0.8 \\ \underline{\pm} & 1.70 \\ \underline{\pm} \end{array}$	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$ \begin{array}{c}         COUNTING \\         ERROR \\         \pm 0.8 \\         \pm 1.70 \\         \pm \\         \pm \\         \pm \\         $	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4102	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$\begin{array}{r} \begin{array}{c} \begin{array}{c} \text{COUNTING} \\ \text{ERROR} \\ \pm & 0 \cdot 8 \\ \pm & 1 \cdot 70 \\ \pm \\ $	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 29 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102           4270	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE _401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$ \begin{array}{c}         COUNTING \\         ERROR \\         \pm 0.8 \\         \pm 1.70 \\         \pm \\         \pm \\         \pm \\         $	DETECTION LIMITS
SECOND QUARTER THIRD QUARTER FOURTH QUARTER FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 29 STRONTIUM 90 TRITIUM CESIUM 134	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102           4270	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401 401	ORY USE ONLY UES (pCi/liter RESULTS 1.2	$ \begin{array}{c}                                     $	DETECTION LIMITS

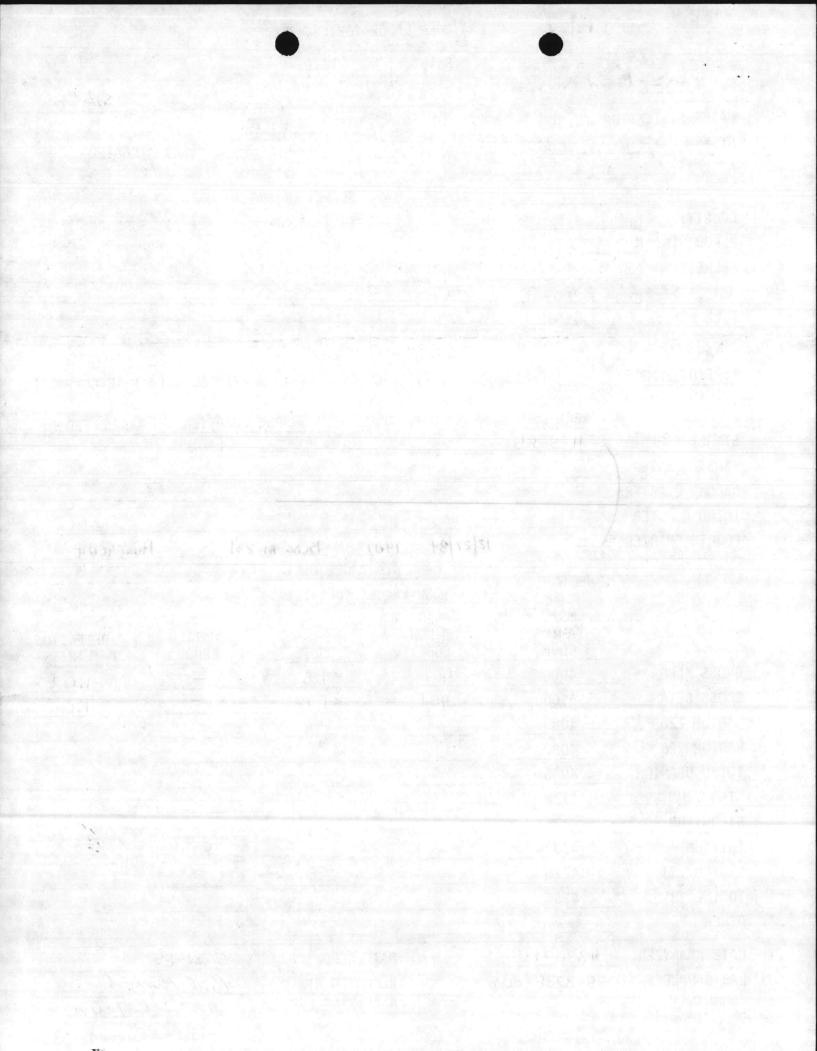
<sup>(</sup>ENCLOSURE 2)



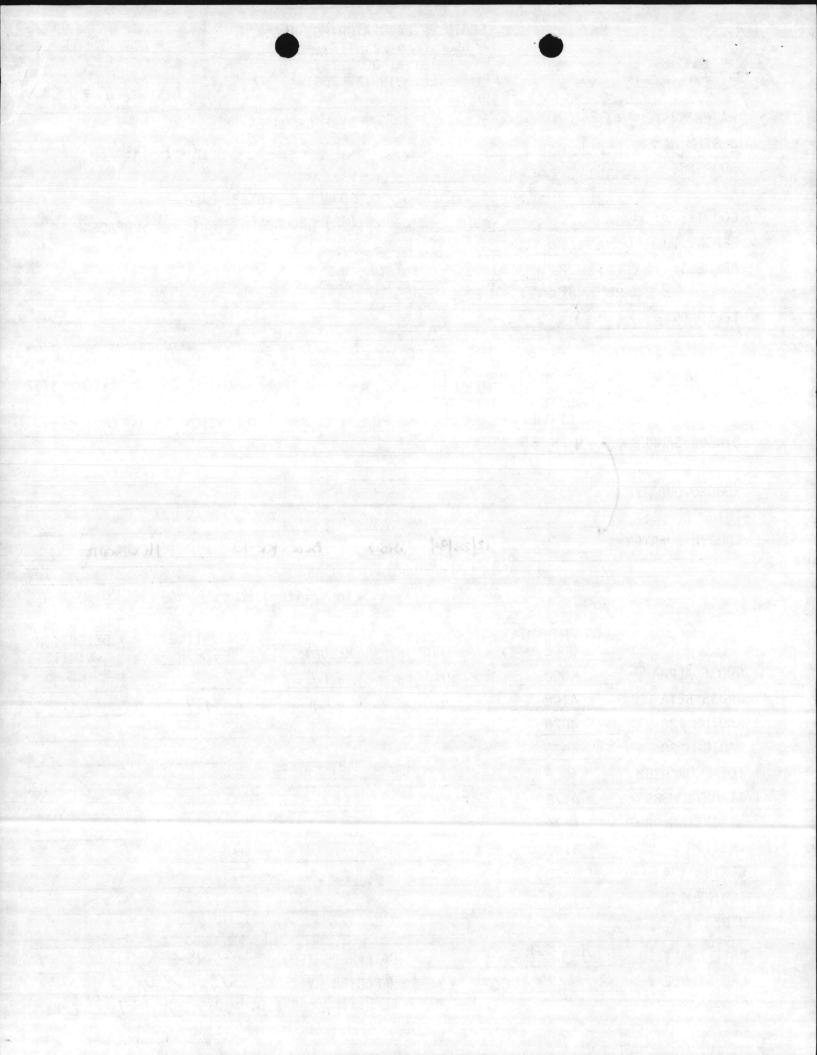
		5500 Comme Raleigh,	ORATORIES, LNC rcial Avenu NC 27612 9-787-3061			
			and an and the second second day. The		ala ini T	Site#2
WATER SYSTEM		7 - 0 4 4		TER:		
ADDDECO	TARAWA TERRACI	a second s	_ ( ) RAW		( X)	TREATED
	MARINE CORPS 1		-			
	AMP LEJEUNE, NO	<u>Z ZIP 28542</u>				
	NSLOW		_ (X) GROUNI	D	()	SURFACE
ADDDEESS	OMMANDING GENER		- 7 - 1 - 1 - 1 - 5 - 5 - 5 - 5 - 5 - 5 - 5			
	TN: NREA, MARI					
	MP LEJEUNE, NO	ZIP 28542				
TELEPHONE:	( )					
		SAMPLE IN	FORMATION	A. 49. 44		Section in the second
FIRST QUARTER SECOND QUARTER	R ( )					
THIRD QUARTER				<u>.</u>		
THIRD QUARTER FOURTH QUARTER	2		52 BLDG T	Г-44	<u> </u>	TUNEYCUTT
		FOR LABORAT	ORY USE ONLY		<u> </u>	LUNEYCUIT
	<u>A</u>	FOR LABORAT			<u> </u>	HUNEYCUIT.
	MSIS CONTAMINANT	FOR LABORAT NALYTICAL VAL MSIS METHOD	ORY USE ONLY UES (pCi/liter	) COUN	TING	
FOURTH QUARTER	MSIS CONTAMINANT CODE	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE	ORY USE ONLY UES (pCi/liter 	) COUN		DETECTIO LIMITS
FOURTH QUARTER	MSIS CONTAMINANT CODE 4000	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN <u>ER</u> ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA	MSIS CONTAMINANT CODE 4000 4100	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE	ORY USE ONLY UES (pCi/liter 	<u>)</u> COUN <u>ER</u> <u>±</u> <u>±</u>	TING	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226	MSIS CONTAMINANT CODE 4000 4100 4020	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN <u>ER</u> <u>±</u> <u>±</u> <u>±</u>	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228	A MSIS CONTAMINANT CODE 4000 4100 4020 4030	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN ER ± ± ± ± ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM	A MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN ER ± ± ± ± ± ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	2) COUN ER ± ± ± ± ± ± ± ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN ER ± ±   ± ± ± ± ± ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN ER ± ±   ± ± ± ± ± ± ± ± ± ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102           4270	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	<pre>     COUN     ER     ±</pre>	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102	FOR LABORAT NALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/liter RESULTS < 1.0	) COUN ER ± + + + ± ± ± ± ± ± ± ± ± ± ± ± ±	TING ROR	DETECTIO LIMITS
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131 OTHER	A MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4172 4174 4172 4174 4102 4270 4264	FOR LABORAT	ORY USE ONLY UES (pCi/liter RESULTS < 1.0 3.6	<pre>     COUN     ER     ±</pre>		DETECTION LIMITS 1.0 1.0
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131 OTHER DATE ANALYZED	A MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4172 4174 4102 4270 4264 4-30-85	FOR LABORAT	ORY USE ONLY UES (pCi/liter RESULTS < 1.0 3.6	<u>COUN</u> <u>ER</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>	TING ROR .2 .2 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	DETECTION LAMITS 1.0 1.0
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131 OTHER	A MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4172 4174 4172 4174 4102 4270 4264	FOR LABORAT	ORY USE ONLY UES (pCi/liter RESULTS < 1.0 3.6	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} $	TING ROR .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	DETECTIO LIMITS 1.0 1.0



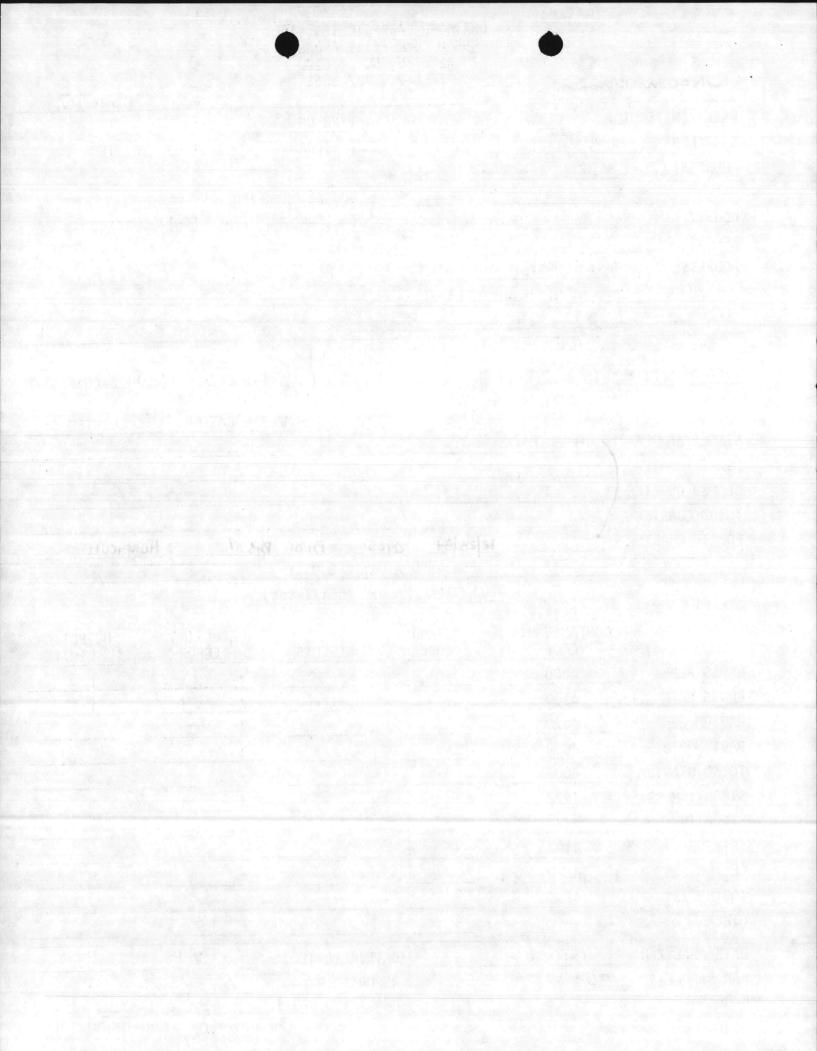
	G	RAINGER LABO 5500 Commerce Raleigh, M TEL. 919-	IC 27612		c.) #0
WATER SYSTEM	ID# 0 <u>4-6</u>	7 - 0 4 5	TYPE OF WAT	ED.	Site #8
	CAMP JOHNSON		() RAW	March and the second second	TOPATED
	MARINE CORPS BA	SE	( ) КАМ	(-)	TREATED
	MP LEJEUNE, NC		SOURCE OF W	ATED.	
COUNTY	SLOW		(x) GROUND		SURFACE
	MMANDING GENERAL	L	(A) anothe		JURFALE
	TN: NREA, MARIN		E		
CAL	MP LEJEUNE, NC ( )	ZIP_28542			
		SAMPLE INF	ORMATION		· · · ·
SINGLE SAMPLE FIRST QUARTER SECOND QUARTER THIRD QUARTER	4-5-85	DATE		E LOCATION	) E-COMPOSITE COLLECTED 3Y
FOURTH QUARTER	12	27/84 140 FOR LABORATO		-231 1	HUNEYCUT
	ANA		ES (pCi/liter)		
	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	- COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	< 1.0	± ~	1.0
GROSS BETA	4100	401	<1.0	± 5	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174		-	±	
RITIUM	4102			±	
CESIUM 134	4270			±	a la serie de l
IODINE 131	4264			±	
DTHER				± 6	n and a second second second second
DATE ANALYZED	4-30-85	DAT	E REPORTED	5-31-85	
AB SAMPLE #	85-3238-008	the second s	ORTED BY	Paul Brg	the second se
REMARKS:			LYZING LAB I.	D. <u>0/9</u> 2	1700
				T.C. (ENC	CLOSURE 2)



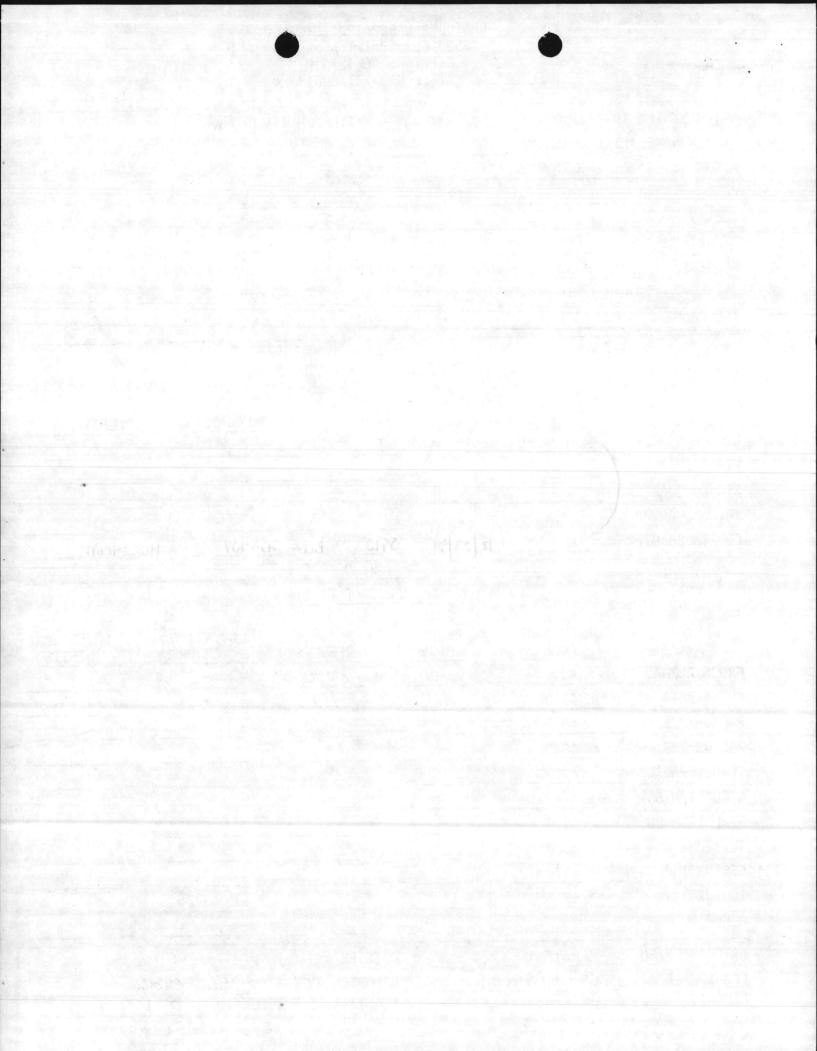
Fartran	Care la	TEL. 91	NC 27612 9-787-3061			Site #6
WATER SYSTEM		7 - 0 4 6	TYPE OF W	ATER:		
SYSTEM NAME:	RIFLE RANGE		( ) RAW		(X)	TREATED
ADDDCCC.	MARINE CORPS B	ASE				
CA	MP LEJEUNE, NC	ZIP 28542	SOURCE OF	WATER:		
COUNTY: ON	ISLOW	<u>.</u>	(X) GROU	ND	()	SURFACE
REPORT TO: CO	MMANDING GENER	AL				
ADDRESS: AT	TN: NREA, MARI	NE CORPS BA	SE			
CA	MP LEJEUNE, NC					
TELEPHONE:	( )					
TYDE OF SAMDIE	: ( <sub>X</sub> ) D-REGUL		FORMATION			
SINGLE SAMPLE FIRST QUARTER SECOND QUARTER THIRD QUARTER			<u>IME</u> SAM	PLE LOCATI		COLLECTED B
FOURTH QUARTER		12/28/84 09	50 BLDG	RR-10.	]	HUNFEYCUTT
FOURTH QUARTER		FOR LABORAT	ORY USE ONLY		]	HUNEYCUTT
FOURTH QUARTER	<u>A</u>	FOR LABORAT			1	HUNRYCUTT
FOURTH QUARTER	<u>Ar</u> MSIS	FOR LABORAT VALYTICAL VAL MSIS	ORY USE ONLY	er)		
	<u>A</u>	FOR LABORAT	ORY USE ONLY	<u>er)</u> COUN		DETECTI
GROSS ALPHA	MSIS CONTAMINANT	FOR LABORAT VALYTICAL VAL MSIS METHOD	ORY USE ONLY UES (pCi/lite	<u>er)</u> COUN	FING	DETECTI
GROSS ALPHA GROSS BETA	MSIS CONTAMINANT CODE	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE	ORY USE ONLY UES (pCi/lite RESULTS	er) COUN ERI ± -	FING	DETECTI LIMIT
GROSS ALPHA GROSS BETA RADIUM 226	MSIS CONTAMINANT CODE 4000	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	er) COUN ERI ± -		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228	<u>MSIS</u> CONTAMINANT <u>CODE</u> <u>4000</u> <u>4100</u> <u>4020</u> <u>4030</u>	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	er) COUN ERI <u>±</u> <u>±</u> /		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM	<u>MSIS</u> CONTAMINANT <u>CODE</u> <u>4000</u> <u>4100</u> <u>4020</u> <u>4030</u> <u>4006</u>	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	er) COUN ER <u>±</u> <u>±</u> <u>±</u>		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89	An MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	<u>er)</u> <u>COUN</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	An MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4174	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	er) COUN ERI <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	AI MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174 4174 4102	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	er) COUN ERI <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102           4270	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	<u>er)</u> <u>COUN</u> <u>ERI</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	AI MSIS CONTAMINANT CODE 4000 4100 4020 4030 4006 4172 4174 4174 4102	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	<u>er)</u> <u>COUN</u> <u>ER</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>		DETECTI LIMIT /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131	All MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4174 4174 4102 4270 4264	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0 2.9	er) COUN ERI <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>	FING ROR	DETECTI LIMIT /.0 /.0
GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131 OTHER	MSIS           CONTAMINANT           CODE           4000           4100           4020           4030           4006           4172           4174           4102           4270	FOR LABORAT VALYTICAL VAL MSIS METHOD CODE 401 401	ORY USE ONLY UES (pCi/lite RESULTS <1.0	er) COUN ERI <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u> <u>±</u>	TING ROR 57	DETECTI LIMIT /.0 /.0



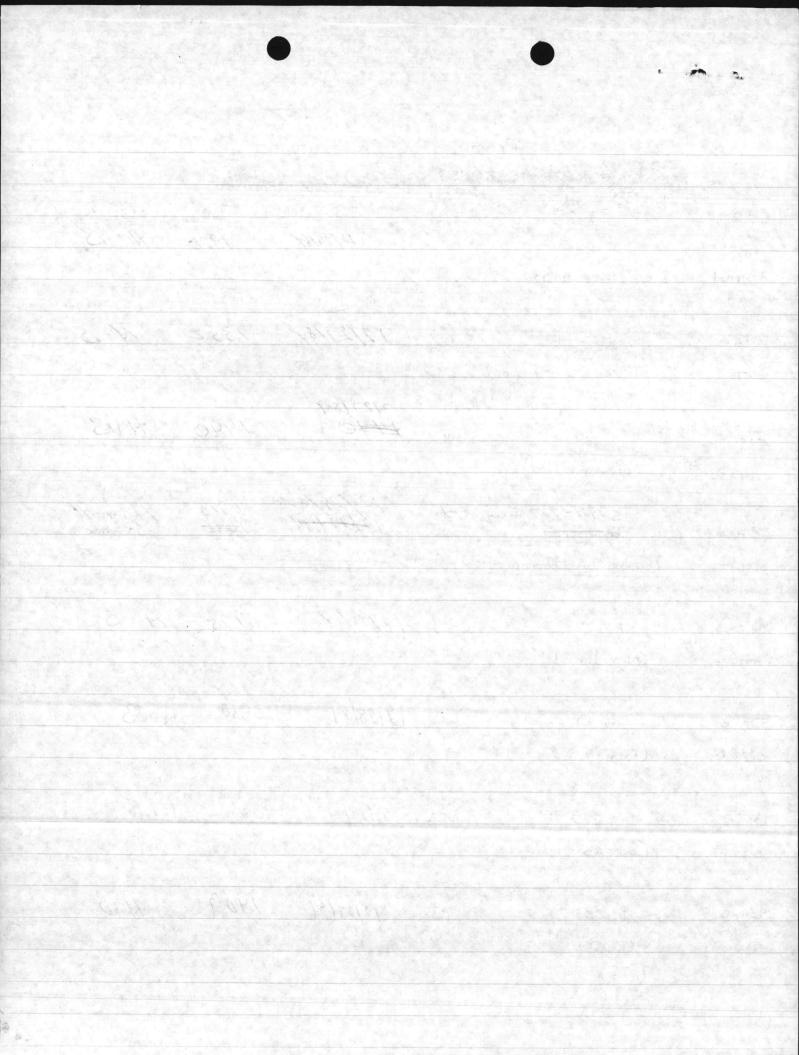
Carry 1, st	atter Part	IEL. 9	19-787-3061		Site#5
WATER SYSTEM	ID# 0 <u>4</u>	6 7 - 0 4	7 TYPE OF WA	TER:	Jile J
	COURTHOUSE BA		( ) RAW	( X	() TREATED
ADDRESS: M	ARINE CORPS	BASE			
. <u> </u>	AMP LEJEUNE,	NC ZIP 2854	2 SOURCE OF	WATER:	
COUNTY: 0	NSLOW		(X) GROUN	D (	) SURFACE
REPORT TO: _C	COMMANDING GE	NERAL			
ADDRESS: A	TTN: NREA, M	ARINE CORPS	BASE		
_ <u>_</u> C	AMP LEJEUNE,	NC ZIP 28542			
TELEPHONE:	( )		_	ALLE TIMES	
		SAMPLE I	NFORMATION		
TYPE OF SAMPLE	: (X) D-REG	ULAR () C	C-CHECK ()	S-SPECIAL	( ) E-COMPO
	DATE	DATE			
	RECEIVED	SAMPLE	TIME SAMPL	E LOCATION	COLLECTED
SINGLE SAMPLE	1-4-5-85				
FIRST QUARTER					
SECOND QUARTER					· · ·
TUIDD OUADTED					
THIRD QUARTER	7				
THIRD QUARTER FOURTH QUARTER	4		925 BLDG	BB-7	HUNEYCUIT
	4	FOR LABORA	TORY USE ONLY		HUNEYCUIT
		FOR LABORA ANALYTICAL VA			HUNEYCUIT
and the second	MSIS CONTAMINANT	FOR LABORA ANALYTICAL VA MSIS METHOD	TORY USE ONLY LUES (pCi/liter		
FOURTH QUARTER	MSIS CONTAMINANT CODE	FOR LABORA ANALYTICAL VA MSIS METHOD CODE	TORY USE ONLY LUES (pCi/liter 	<u>)</u>	
FOURTH QUARTER	MSIS CONTAMINANT CODE 4000	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	) COUNTING ERROR ±	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA	MSIS CONTAMINANT CODE 4000 4100	FOR LABORA ANALYTICAL VA MSIS METHOD CODE	TORY USE ONLY LUES (pCi/liter 	$\frac{\text{COUNTING}}{\text{ERROR}}$ $\frac{\pm}{\pm} = 0.59$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226	MSIS CONTAMINANT CODE 4000 4100 4020	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{\text{COUNTING}}\\ \underline{\text{COUNTING}}\\ \underline{\text{ERROR}}\\ \underline{\pm} \\ \underline{\pm} \\ \underline{\pm} \\ \underline{0.59}\\ \underline{\pm} \end{array}$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228	MSIS CONTAMINANT CODE 4000 4100 4020 4030	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{\text{COUNTING}} \\ \underline{\text{COUNTING}} \\ \underline{\text{ERROR}} \\ \underline{\pm} \end{array}$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{\textbf{COUNTINO}}\\ \underline{\textbf{COUNTINO}}\\ \underline{\textbf{ERROR}}\\ \underline{\textbf{\pm}}\\ \underline{\textbf{\pm}}\\$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{r} \hline \begin{array}{c} \hline \\ \hline $	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4174	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{r} \hline \begin{array}{c} \hline \\ \hline $	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4174 4174 4102	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{} \\ \underline{} \\$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131	MSIS CONTAMINANT CODE 4000 4100 4020 4020 4030 4006 4172 4174 4174 4102	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 40\	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{} \\ \underline{} \\$	G DETECT
FOURTH QUARTER GROSS ALPHA GROSS BETA RADIUM 226 RADIUM 228 TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	MSIS CONTAMINANT CODE 4000 4100 4020 4030 4030 4006 4172 4174 4174 4102 4270	FOR LABORA ANALYTICAL VA MSIS METHOD CODE 401 401	TORY USE ONLY LUES (pCi/liter RESULTS ~ 1.0	$\begin{array}{c} \underline{\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	G DETECT LIMI 1.0 1.0

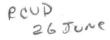


COUNTY: OI REPORT TO: CO ADDRESS: A	<u> </u>		<u>TYPE OF WAT</u> () RAW SOURCE OF W	TER:	Site#4 REATED
SYSTEM NAME: OI ADDRESS: M. CAI COUNTY: OI REPORT TO: CO ADDRESS: A	NSLOW BEACH ARINE CORPS BA MP LEJEUNE, NC NSLOW	SE	( ) RAW		REATED
ADDRESS: M. CAL COUNTY: OI REPORT TO: CO ADDRESS: A	ARINE CORPS BA MP LEJEUNE, NC NSLOW				REATED
COUNTY: OI REPORT TO: CO ADDRESS: A	MP LEJEUNE, NC NSLOW				
COUNTY: OI REPORT TO: CO ADDRESS: A	NSLOW			ATED.	
REPORT TO:        ADDRESS:     A'	Card and the second		(X) GROUND		
ADDRESS: A		RAT.			URFACE
States and the second	TTN: NREA, MAR		ASE		
CAL	MP LEJEUNE, NC				
TELEPHONE:	( )				
SINGLE SAMPLE FIRST QUARTER SECOND QUARTER THIRD QUARTER	<u>RECEIVED</u> <u>4-5-85</u>	<u>SAMPLE 1</u>	IME SAMPL	<u>E LOCATION</u>	COLLECTED BY
FOURTH QUARTER	1		110 BLDE SP ORY USE ONLY	34-107 Hu	NEYCUTT
	AN		UES (pCi/liter)	)	
	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTIO LIMITS
GROSS ALPHA	4000	401	< 1.0	± -	1.0
GROSS BETA	4100	401	1.2	± 0.8	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			<u>+</u>	
	1000		and the second	±	
	4006	the state of the s	· · ·		and the state of the state of the state
TOTAL URANIUM	4006			<u>±</u>	
TOTAL URANIUM STRONTIUM 89	1	, <u>,</u>		±	
TOTAL URANIUM STRONTIUM 89 STRONTIUM 90	4172			and the second	
TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM	4172 4174			<u>±</u>	
TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134	4172 4174 4102			±	
TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131 OTHER	4172 4174 4102 4270	······································		± ±	
TOTAL URANIUM STRONTIUM 89 STRONTIUM 90 TRITIUM CESIUM 134 IODINE 131	4172 4174 4102 4270		ATE REPORTED	± ± ±	



<i>.</i> •					
	Rai	DIONUCLID	E SAMPLING		
		ATH QU	ARTER		
SAMPLE #	BLDG #	SYSTEM	DATE	TIME	COLLECTOR(5)
25 A+B	4022	HB	12/27/84	1326	HiB
SITE 1	(FIRE STATION)				
ZGAYB	77-44	π	12/27/84	1352	NºB
STER	(COMMUNITY BLDG	)			
			12/27/84		
27 AVB	65	HP	###C)	1440	HHB
SITE 3	(SEWAGE LAB)	n n gé Transie			
28 A+B	SBA-107 Surg	ve Alert OB	12/28/84 12/29/84	0910	Huneycutt Barbee
SITE 4	(BESIDE BA 197 THM 5	πε)			
Z9 A+B	BB-7	CHB	12/28/84	0925	A:B
SITE 5	(MESS HALL)				
			- Alexandra	10-0	
30 A+B	RR-ID	RR	12/28/84	0550	NiB
SITE 6	(EXCHANGE)				
			, , ,	Contraction Contraction	111 8
31 A+B	G-170	MCAS	12/23/84	1030	HLB
SITE 7	(DISPENSARY)		and the second second		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
				14ng	H'B
32A+B	m-231	CJ	12/27/84	110 [	AU
SITE 8	(BOQ)			<u>e Recupieres a colos</u> e 1995 - Bille Colos	
					and the second





DATE 6/18/85 GLI# 0853238

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Analytical and Consulting Chemists PAGE 1

Quality Control Lab,USMCB Att:Elizabeth Betz,Supvsr NREAD, Building 1103 Camp Lejeune,NC 28542

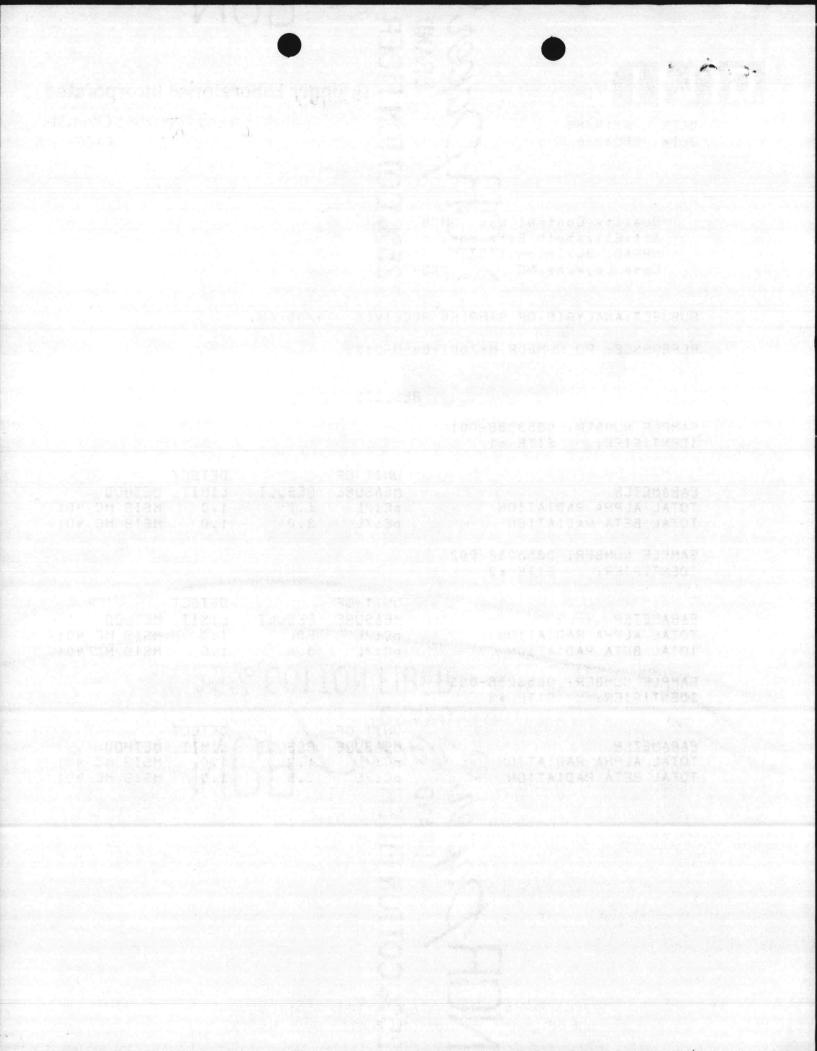
SUBJECT: ANALYSIS OF SAMPLES RECEIVED 4/05/85.

REFERENCE: PO NUMBER M67001-84-M-5159

RESULIS

SAMPLE NUMBER: 0853238-001 IDENTIFIER: SITE #1

PARAMEIER Total Alpha Radiation Total beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI 1.2 3.0	DETECT LIMII_ 1.0 1.0	MSIS MC	401 401
SAMPLE NUMBER: 0853238-002 IDENTIFIER: SITE #2					
PARAMEIER Total alpha radiation Total beta radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 3.6	DETECT LIMII_ 1.0 1.0	MEIHOD MSIS MC MSIS MC	
SAMPLE NUMBER: 0853238-003 IDENTIFIER: SITE #3					
PARAMEIER Total Alpha Radiation Total beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI 1.2 2.5	DETECT LIMII_ 1.0 1.0	MEIHOD Msis Mc Msis Mc	401 401

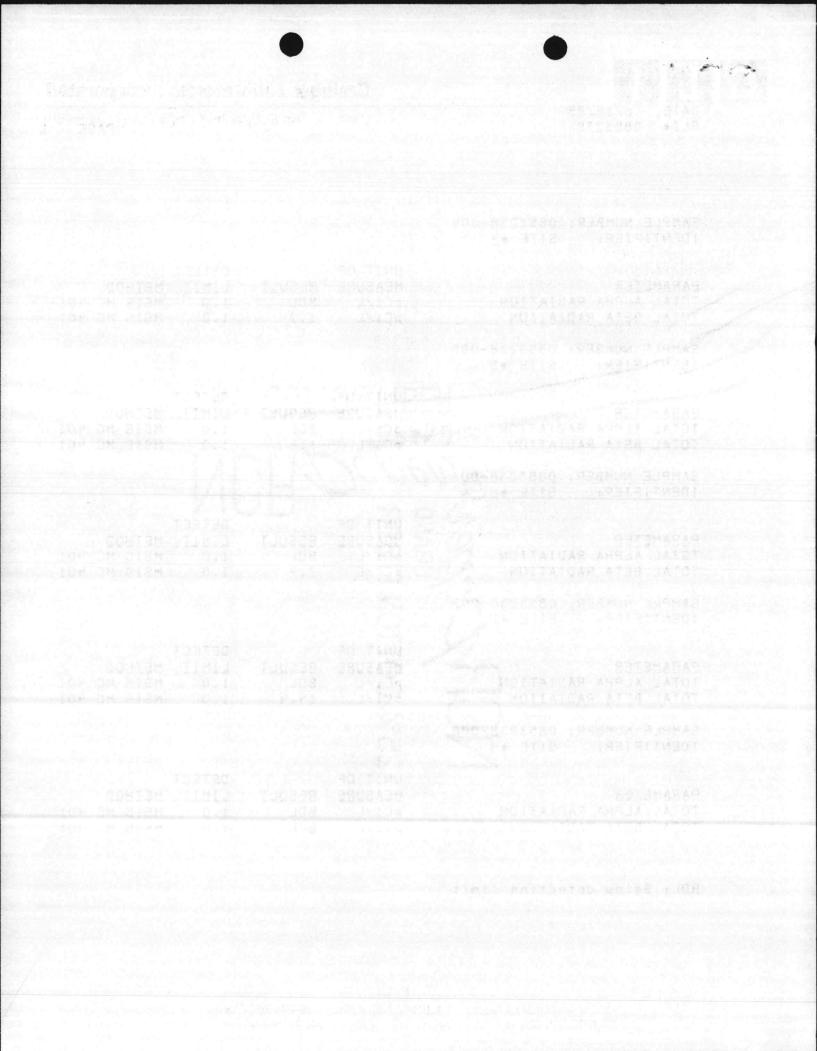




Analytical and Consulting Chemists,

SAMPLE NUMBER: 0853238-004 IDENTIFIER: SITE #4					
PARAMEIER Total Alpha Radiation Total beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 1.2	DETECT LIMII_ 1.0 1.0	MEIHOD MSIS MC MSIS MC	
SAMPLE NUMBER: 0853238-005 IDENTIFIER: SITE #5					
PARAMEIER Total Alpha Radiation Total Beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 1.6	DETECT LIMII_ 1.0 1.0	MEIHOD MSIS MC MSIS MC	
SAMPLE NUMBER: 0853238-006 IDENTIFIER: SITE #6					
PARAMEIER Total alpha radiation Total beta radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 2.9	DETECT LIMII_ 1.0 1.0	MEIHOD MSIS MC MSIS MC	
SAMPLE NUMBER: 0853238-007 IDENTIFIER: SITE #7					
PARAMEIER Total Alpha Radiation Total Beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 14.4	DETECT LIMII_ 1.0 1.0	MEIHOD MSIS MC MSIS MC	
SAMPLE NUMBER: 0853238-008 IDENTIFIER: SITE #8					
PARAMEIER Total Alpha Radiation Total Beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL BDL	DETECT LIMII_ 1.0 1.0	MEIHOD MSIS MC MSIS MC	

BDL: Below detection limit





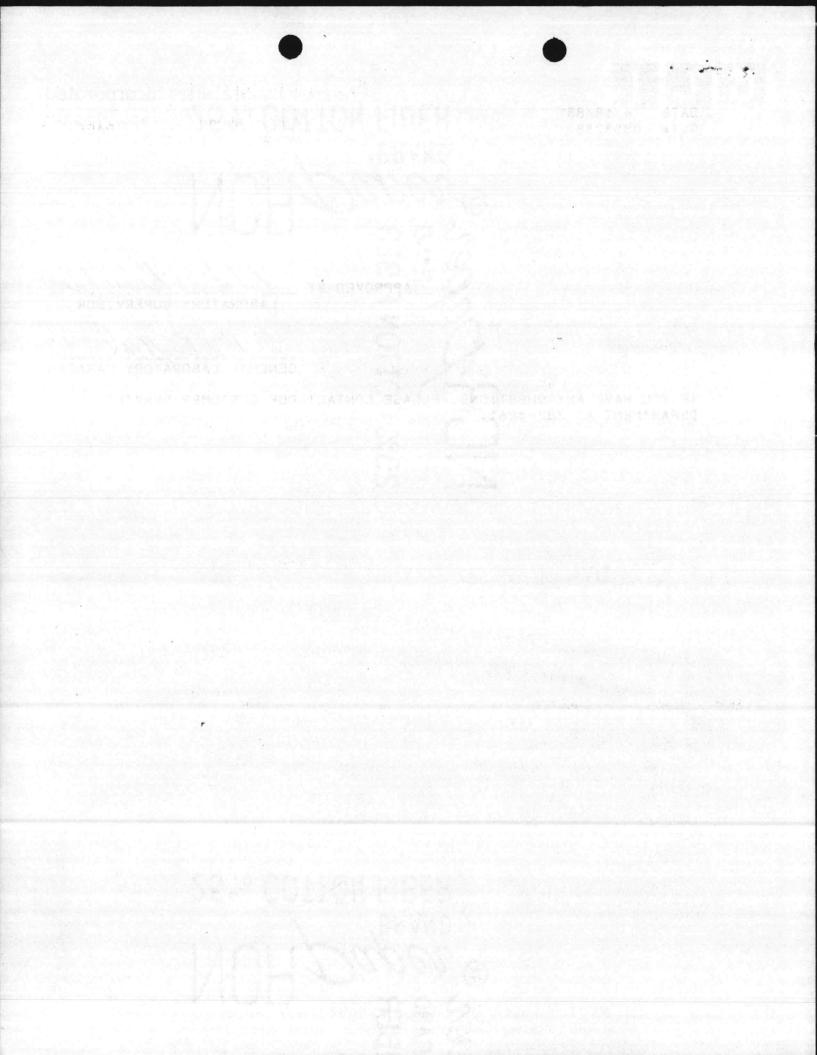


Analytical and Consulting Chemists

um APPROVED BY LABORATORY SUPERVISOR

GENERAL LABOR MANAGER

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR CUSTOMER SERVICE DEPARTMENT AT 787-3061.





Analytical and Consulting Chemists

July 29, 1985 GLI #0853238

Quality Control Lab, USMCB Attention: Elizabeth Betz, Supervisor NREAD, Building 1103 Camp Lejeune, NC 28542

Subject: Analysis of Samples Received 04/05/85

Sample Identification:

PO Number M67001-84-M-5159

0853238-007 Site #7

RESULTS

PARAMETER	RESULT	DETECT LIMIT	METHOD
Radium 226, pCi/Liter	< 0.6	0.6	MSIS MC 417
Radium 228, pCi/Liter	0.43		MSIS MC 418

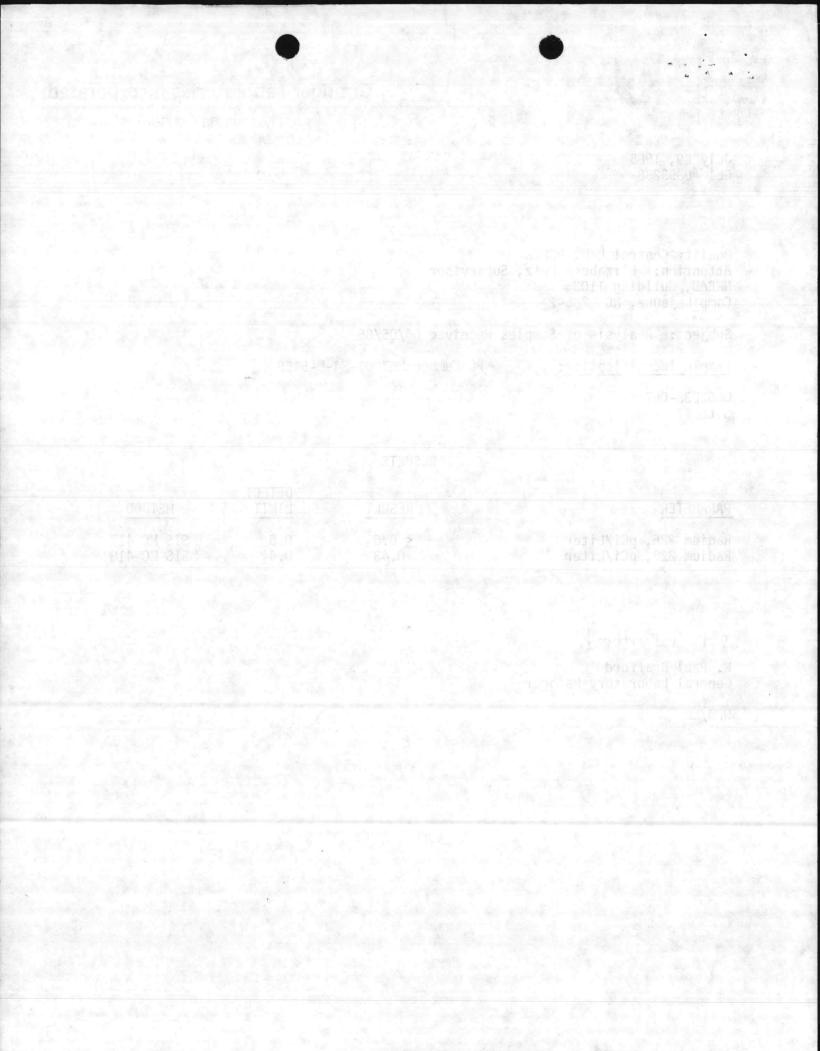
W. Paul Brofford

W. Paul Brafford General Laboratory Manager

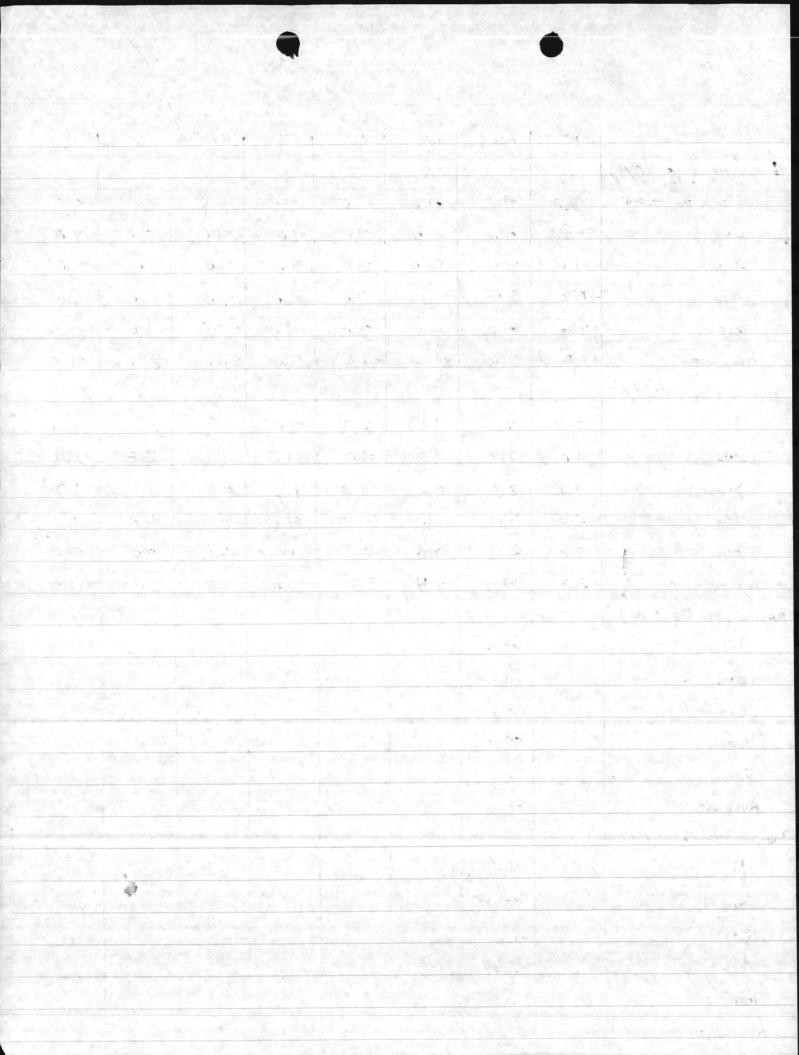
WPB/km

5500 Commercial Avenue · Raleigh, NC 27612 · (919) 787-3061

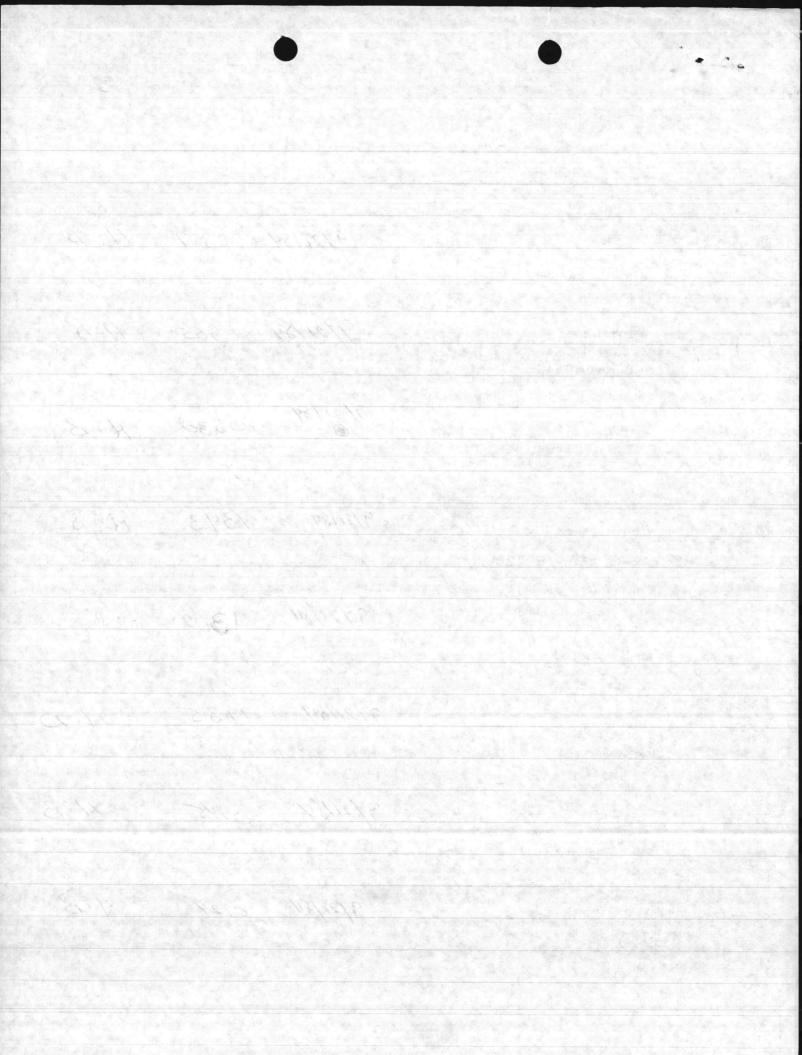
(ENCLOSURE 2)



			a hard					
	•				•			
a an								
and a second								
	HP	MCAS	HB	1 17	1 C3	IRR	CHB	08
GROSS ALPHA (\$5,0C/1) 3/84								
1 st 3-27-84	<1.D	<1.0	<1.0	<1.0	<1.0	=1.0	<1.0	<1.0
ZND	<1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Jes	<1.0	<1.0	<1.0	<1.0	<1,0	<1.0	<1.0	<1.0
4 TH	t.z	<1.6	1.Z	<1.0	<1.0	<1.0	<1.0	<1.0
TOTAL	4:6	=4.0	4.2	=4.0	~4.0	- 4.0	-4.0	-4.0
AVERAGE	<1.D	4.0	=1.0	< 1,0	<1.0	<1.0	<1.0	<1.0
GROSS BETA (-50pC/1)		1.5					1000	292
ST	z.7	10.4	1.5	2.9	<1.0	1.8	2.3	<1.0
ZND	4.0	7.7	1.5	<1.0	=1.0	1.4	Z.8	2.7
320	4.1	8,7	3.6	4.2	4.5	<1.0	1.1	1.3
474	2.5	14.4	3.0	3.6	<1.0	2.9	1.6	1.Z
TOTAL	13.3	41.2	9.6	10.7	1.5	6,1	7.8	5,2
AVERAGE	3.3	10.3	2.4	2.7	<1.0	1,5	2.0	1.3
RADIUM 226 (-3pci/1)							A 1/90	
IST		<0.6						S. S. S. S. S.
ZND		<0.6		1.00%				
Зер		<0.6			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	121.2		mar Elg
4774		e0.6		and the second	一组成	- Section	Sec.	
TOTAL		0			Contraction of the			
AVERAGE		=0,6		1.20				
RADIUM 228 (5 pCi/1)		and the second			1. 1.2.43	1.00	Hora Ma	
lst		1.4	12.2	1	No.	1.202		
ZND		<0.4			e vening suit			
Jeb		<0.4		120				
4TH		-0.43				an the s	er promotor	a service and
TOTAL		<0.4		14 19 4 19 14 19 19 19 19				
AVERAGE		ULT		12.20				
TTELAGE	n dalar ing			- Contraction of the second		1 Surger	and the second sec	a the state of the



### RADIONUCLIDE SAMPLING 320 QUARTER BLDG # SAMPLE # DATE COLLECTOR(S) Time SYSTEM 9/21/84 0857 H:B 4022 HB 17 A+B (FIRE STATION) 9/21/84 0905 N:B 11-44 TT 18 ANB (COMMUNITY BLOG) 9/21/84 0830 NoB 19 A+B 10 HP (SEWAGE LAB) 9/21/84 1343 HEB CAMPSITE OB 20 A+B (BESIDE BA 197 THM SITE) 13/2 HiB 9/21/84 CHB BB-7 ZI AXB (MESS HALL) 9/21/84 1135 NiB RR-10 RR ZR A+B (EXCHANGE) 9/21/81 0945 NiB MCAS G-770 23 A+B (DISPENSARY) CJ HiB 9/21/84 0924 M-231 24 A+B (BOQ)







Analytical and Consulting Chemists

DATE 12/19/84 GLI# 0851190

PAGE\_ 1

Quality Control Lab,USMCB Att:Elizabeth Betz,Supvsr NREAD, Building 1103 Camp Lejeune,NC 28542

SUBJECT: ANALYSIS OF SAMPLES RECEIVED 10/25/84.

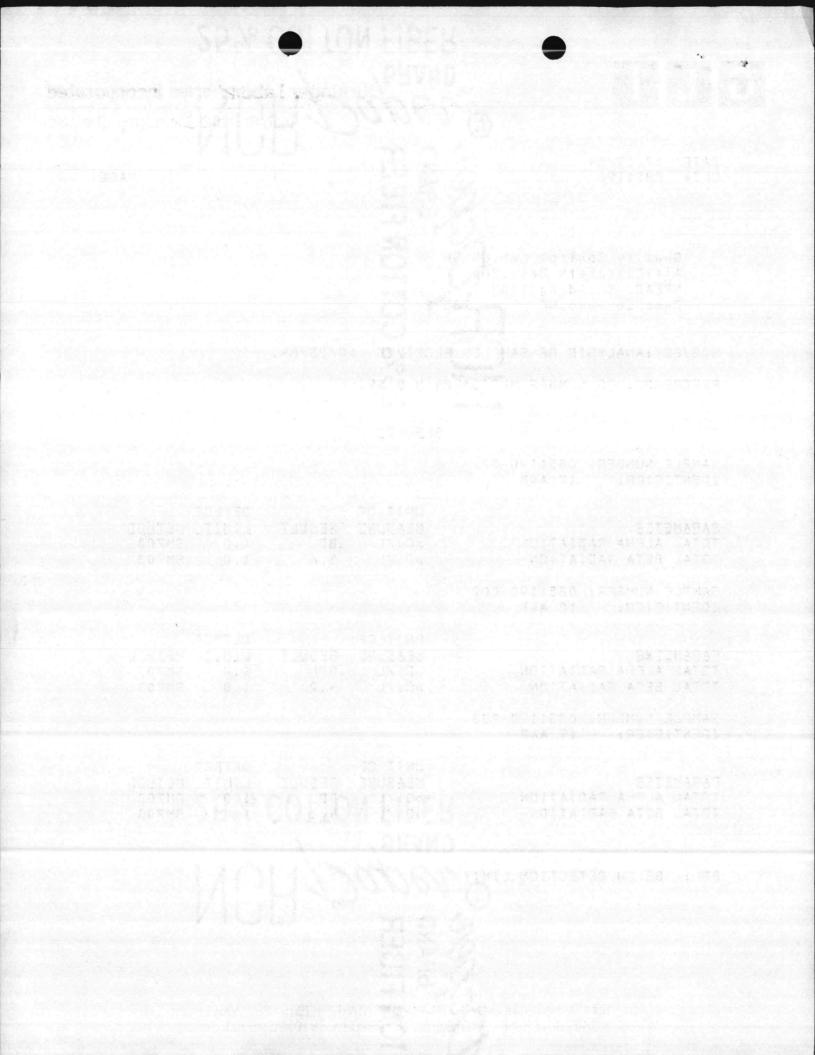
REFERENCE: PD NUMBER M67001-84-M-5159

### BESULIS

SAMPLE NUMBER: 0851190-001 IDENTIFIER: 17 A&B

PARAMEIER Total Alpha Radiation Total Beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 3.6	DETECT LIMIT_ 1.0 1.0	MEIHOD SM703 SM703
SAMPLE NUMBER: 0851190-002 IDENTIFIER: 18 A&B				
PARAMEIER Total Alpha Radiation Total beta Radiation	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 4.2	DETECT LIMII_ 1.0 1.0	MEIHOD SM703 SM703
SAMPLE NUMBER: 0851190-003 IDENTIFIER: 19 A&B				
PARAMEIER TOTAL ALPHA RADIATION TOTAL BETA RADIATION	UNIT OF MEASURE pCi/L pCi/L	RESULI BDL 4,1	DETECT LIMII_ 1.0 1.0	MEIHDD SM703 SM703

BDL: BELOW DETECTION LIMIT





Analytical and Consulting Chemists

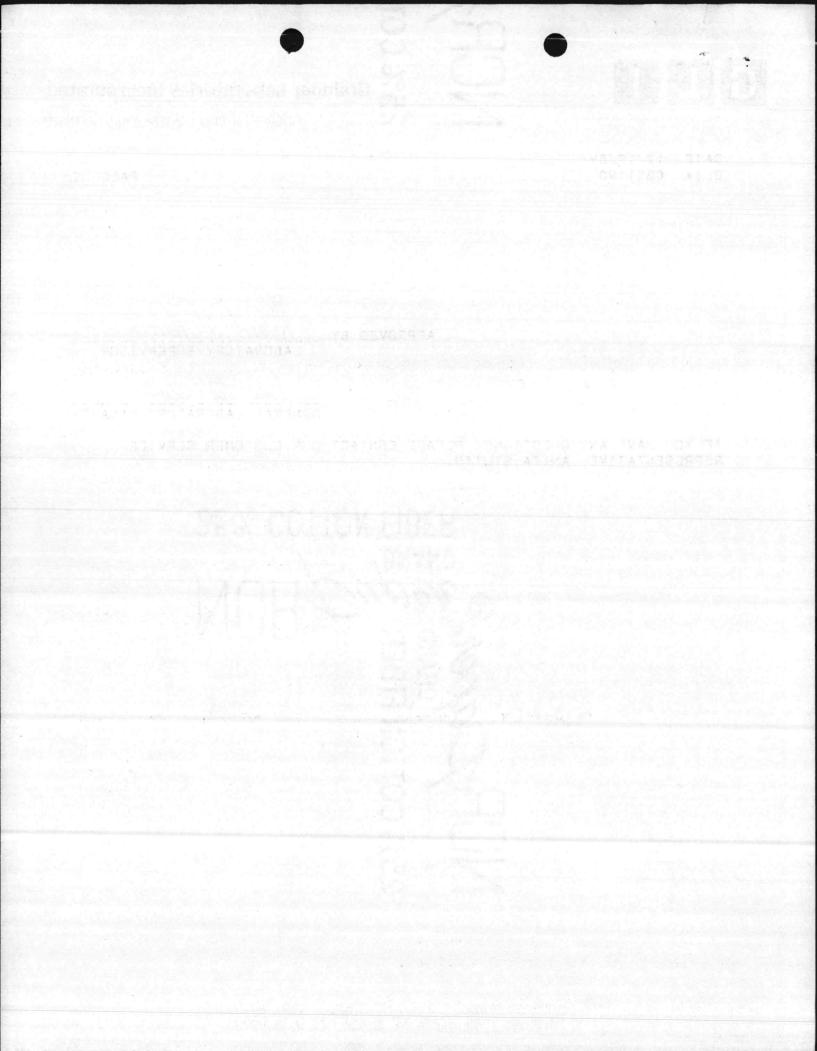
DATE 12/19/84 GLI# 0851190

PAGE 2

Robert W. Harris LABORATORY SUPERVISOR APPROVED BY

ENERAL LABORATORY MANAGER

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR CUSTOMER SERVICE REPRESENTATIVE, ANITA STUTTS.





Analytical and **Consulting Chemists** 

Camp Lejeune, NC 28542

December 13, 1984

GLI #84-12021

5500 Commercial Avenue Raleigh, NC 27612 (919) 787-3061

> 1040 Greenfield Street Wilmington, NC 28402 (919) 763-9793

> > Analytical Laboratory

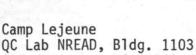
**Environment Analysis** Materials Identification of Unknowns Agricultural Products Fuels Textiles Hazardous Waste GC/MS ICP Metals **Priority Pollutants** 

### Consultation

Metallurgical Services Pollution Abatement Process Development Quality Control Methods Development Special Investigation

#### Certifications

SDWA NPDES USDA USEPA



Attention: Elizabeth Betz

Analysis of Samples Received 9-28-84 Subject: Reference:

Purchase Order # M67001-84-M-5159 Identification of Samples:

1.	20A	and	В	
2.	21A	and	В	
3.	22A	and	В	
4.	23A	and	В	
5.	24A	and	B	

Gross Alpha, pCi/L

Gross Beta, pCi/L

Radium 226, pCi/L

Radium 228, pCi/L

### RESULTS

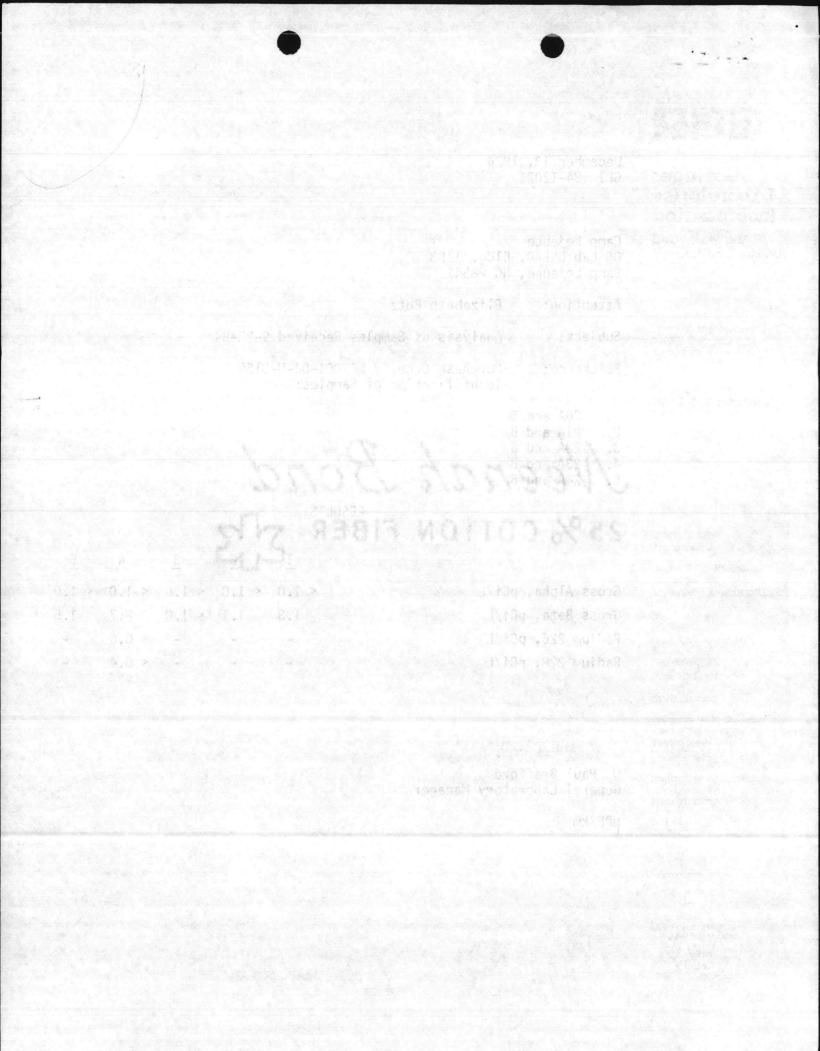
	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>
<	1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1.3	1.1	< 1.0	8.7	1.5
	-	-		< 0.6	
	12			< 0.4	

w. Paul Brokord

W. Paul Brafford General Laboratory Manager

WPF/km





RADIONUCLIDE SAMPLING 2 ND QUARTER

SAMPLE" BLOG " SYSTEM DATE TIME 9 A+B 4022 HOLCOMB BLVD 6/27/84 0900 (MIDWAY PARK FIRE STATION)

Huneraut Barber

TT-44 TARAWA TERRACE 6/2764 0922 10 AYB (COMMUNITY BLOG)

11 A+B 65 HADNOT POINT 6/27/84 1500 ( SEWAGE LAB )

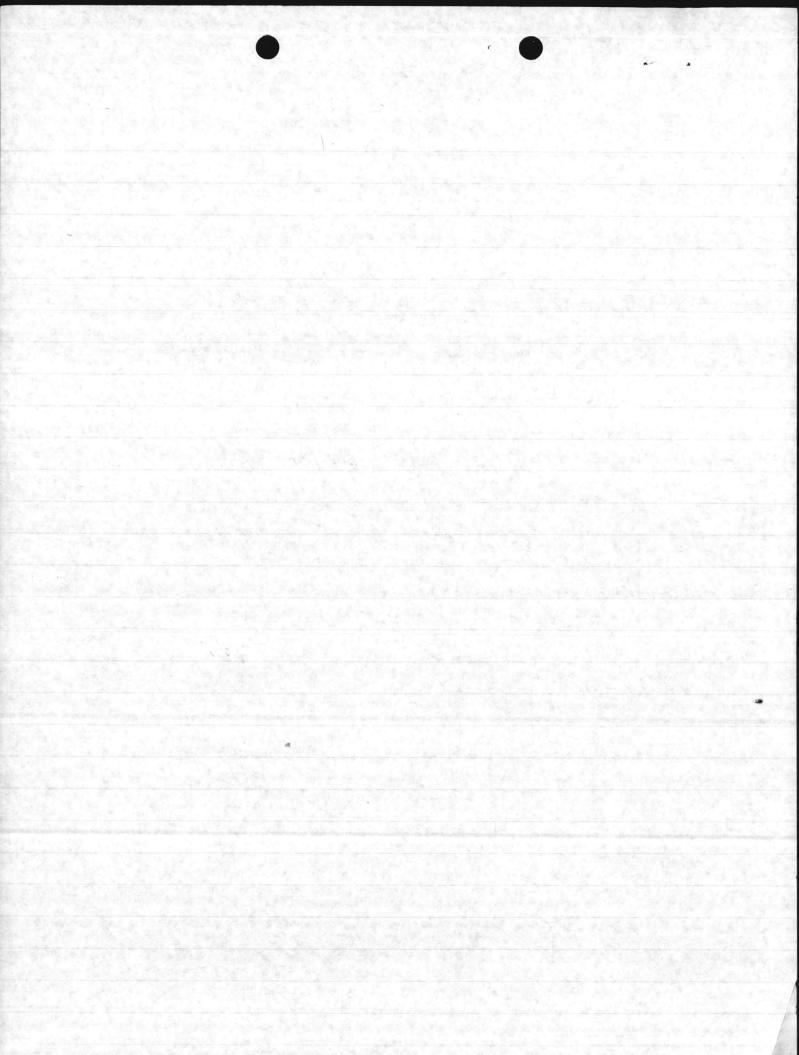
12 A+B CAMPSITE ONSLOW BEACH 6/27/84 1418 (BESIDE BA 197 THM SITE)

13 AND BB-7 COURTHOUSE BAY 6/27/84 1405 (MESS HALL)

14 AND RR-10 RIFLE RANGE 6/27/88 1340 (EXCHANGE)

15 A+B G-770 MCAS 6/29/84 1220 (DISPENSARY)

16 A+B M-231 CAMP JOHNSON 6/27/00 0940 (BOQ)





Analytical and Consulting Chemists

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> 1040 Greenfield Street Wilmington, NC 28402 (919) 763-9793

> > Analytical Laboratory

Environment Analysis Materials Identification of Unknowns Agricultural Products Fuels Textiles Hazardous Waste GC/MS ICP Metals Priority Pollutants

#### Consultation

Metallurgical Services Pollution Abatement Process Development Quality Control Methods Development Special Investigation

#### Certifications

SDWA NPDES USDA USEPA

September 13, 1984 84-11360

COTON F

Quality Control Lab, NREAD Facilities, MCB Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 7-6-84

Sample Identification: Purchase Order M67001-84-M-5159

1. 2. 3. 4. 5. 6. 7.	Sample Sample Sample Sample Sample Sample Sample	#10A #11A #12A #13A #14A #15A	& & & & & & & & & & & & & & & & & & &	10B 11B 12B 13B 14B 15B	
8.	Sample	#16A	&	16B	

RESULTS

See results on attached page.

w. Paul Brofford

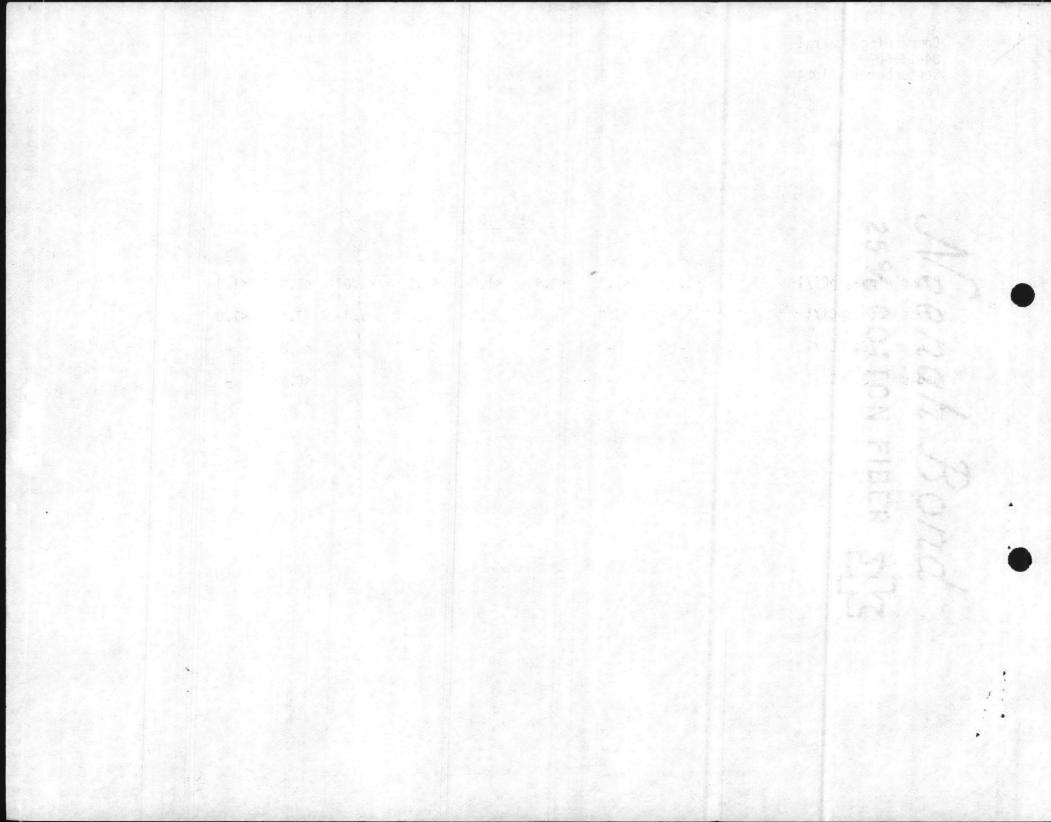
W. Paul Brafford Laboratory Manager

WPB:sb

25% COTODE FIBER 5 Sector 124 1284 Pactilities, MCB Cortejaure, MC 20042 Actemations is Elizabeth Batty Unicci \_\_haivsea,ci\_âsepi-s +-ce∵ c /-6-66

Commanding General 84-11360 September 13, 1984 Page 2

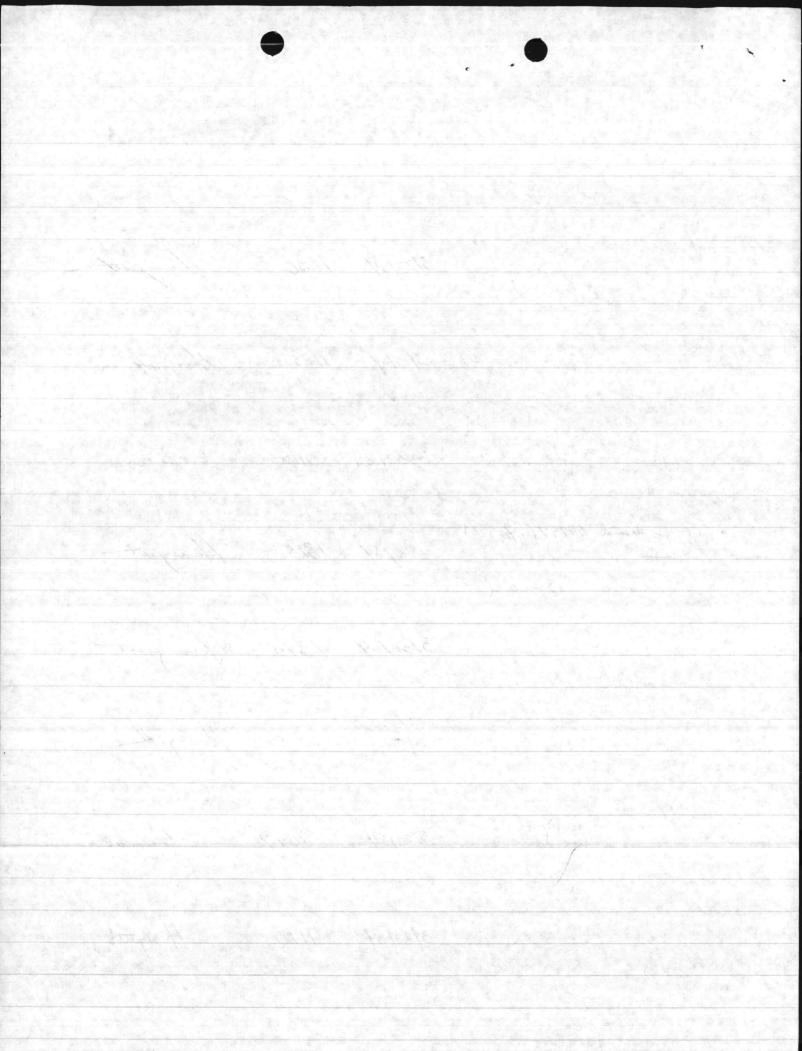
13 64	RESULTS							
	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
Gross Alpha, pCi/l	<1.0	<1.0	<1.4	<1.0	<1.0	<1.0	<1.0	<1.0
Gross Beta, pCi/l	1.5	<1.0	4.0	2.7	2.8	1.4	7.7	<1.0
Radium 226, pCi/l		-	<u>_</u>	-	-	- 1	<0.6	-
Radium 228, pCi/l	1997 - T	-	-	-	-	-	<0.4	



RADIONUCLIDE SYSTEM 15 QUARTER SAMPLE # BLOG # SYSTEM DATE TIME COLLECTOR IA+B 4022 HOLCOMB BLVD 3/27/84 1136 Hunagut (M.P FIRE STATION) Huveyoutt 2 A+B TT-44 TARAWA TERRACE 3/27/84 1125 (COMMUNITY BLOG) 3 ATB 45 HADNOT POINT 3/30/84 0915 EGBLAT (Q.C. LAB) Composite thered BA197 (THE site). 4 AVB BA-HS ONSLOW BEACH 3/30/84 1315 Hunerput (OFFICER'S PAVILION) Source 5 A+B BB-7 QUETHOUSE TOAY 3/30/84 1340 Spennengert (MESS HALL) 3/20/84 1400 Henerget 6 A+B RR-10 RIFLE RANGE (EXCHANGE) MATZING MCAS 3/27/84 1047 Huneycut TA+B G-770 GANNE GEIGER (DISPENSARY) 3/27/84 1110 CAMP JOHNSON 8A+B M-231

(BOQ)

Huneyatt



### RADIONUCLIDE SAMPLING INFORMATION

### 1<sup>st</sup> Quarter

Send To: Grainger Laboratories 5500 Commercial Avenue Raleigh, NC 27612

Sample #	System	Time	Date Date
1 A&B	HB	1136	27 Mar 84
2 A&B	TT	.1125	27 Mar 84
3 A&B	HP	0915	30 Mar 84

Purchase Order: M67001-84-M-5159

Point of Contact: Elizabeth A. Betz Water Quality Control Lab NREAD, Facilities, MCB Camp Lejeune, NC 28542 (919) 451-5977

### RADIONUCLIDE SAMPLING INFORMATION

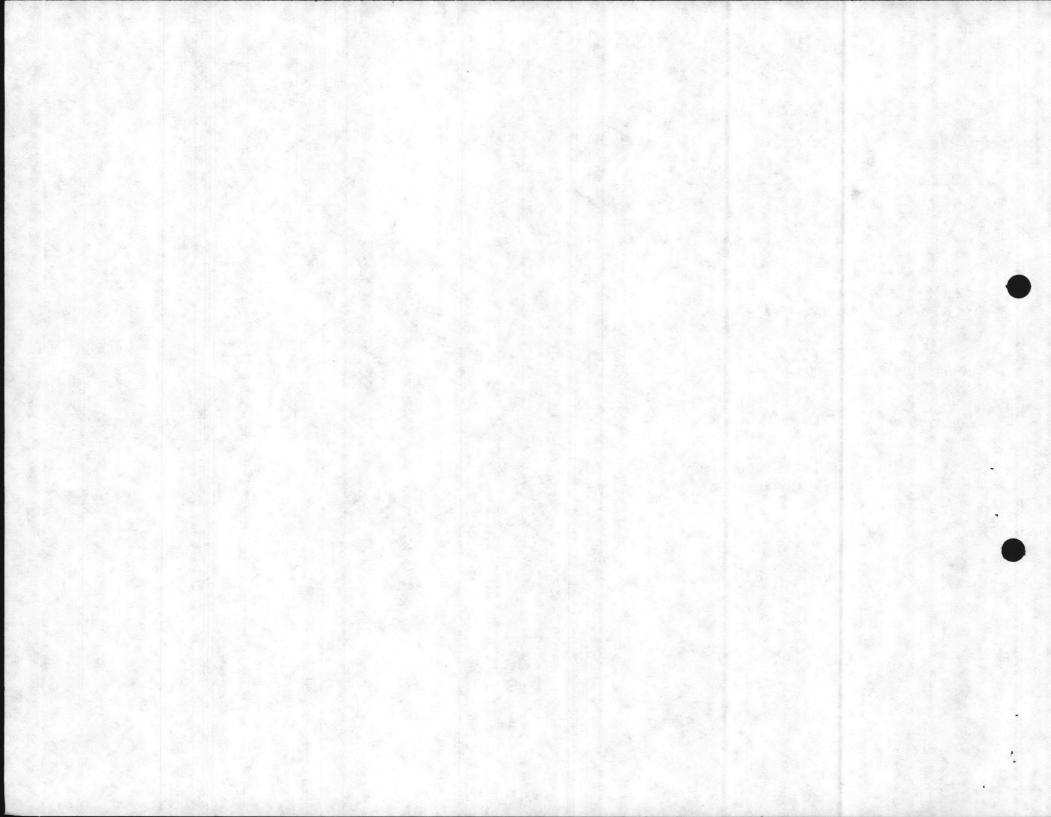
# 1<sup>st</sup> Quarter

Send	To:	Grainger Laboratories				
		5500 Commercial Avenue				
		Raleigh, NC 27612				

Sample #	System	Time	Date	
4 A&B	OB		30 Mar 84	
5 A&B	СНВ		30 Mar 84	
6 A&B	RR		30 Mar 84	

Purchase Order: M67001-84-M-5159

Point of Contact: Elizabeth A. Betz Water Quality Control Lab NREAD, Facilities, MCB Camp Lejeune, NC 28542 (919) 451-5977



### RADIONUCLIDE SAMPLING INFORMATION

# 1<sup>st</sup> Quarter

Send To: Grainger Laboratories 5500 Commercial Avenue Raleigh, NC 27612

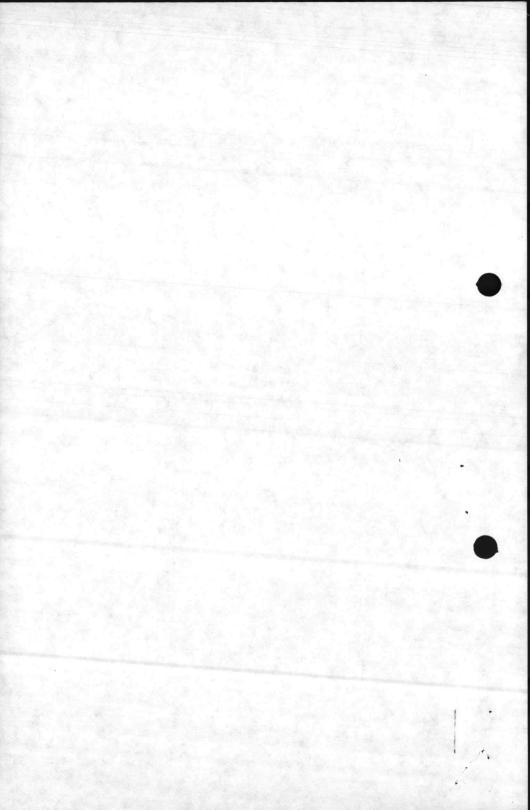
Sample #	System	Time	Date
7 A&B	MCAS	1047	27 Mar 84
8 A&B	CJ	1110	27 Mar 84
			1

Purchase Order: M67001-84-M-5159

Point of Contact:

Elizabeth A. Betz . : Water Quality Control Lab NREAD, Facilities, MCB Camp Lejeune, NC 28542 (919) 451-5977

----÷.





Analytical and Consulting Chemists

5500 Commercial Avenue Raleigh, NC 27612 (919) 787-3061

> 1040 Greenfield Street Wilmington, NC 28402 (919) 763-9793

May 22, 1984 84-10509

Quality Control Lab, NREAD Facilities, MCB Camp Lejeune, NC 28542

Attention: Elizabeth A. Betz

Subject: Analyses of Samples Received 4-9-84

Sample Identification: Purchase Order No. M67001-84-M-5159

1.	#1A	+	Β,	System	HB,	Time	11:36,	Date	3-27-84	
2.	#2A	+	Β,	System	TT,	Time	11:25,	Date	3-27-84	
3.	#3A	+	Β,	System	HP,	Time	09:15,	Date	3-30-84	

### RESULTS

		<u>1</u>	2	<u>3</u>	Detection Limit
Gross	Alpha, pCi/liter	<1.0	<1.0	<1.0	1.0
Gross	Beta, pCi/liter	$1.5 \pm 1.0$	2.9 ± 2.5	2.7 ± 2.3	1.0

#### Analytical Laboratory

Environment Analysis Materials Identification of Unknowns Agricultural Products Fuels Textiles Hazardous Waste GC/MS ICP Metals Priority Pollutants

#### Consultation

Metallurgical Services Pollution Abatement Process Development Quality Control Methods Development Special Investigation

Certifications

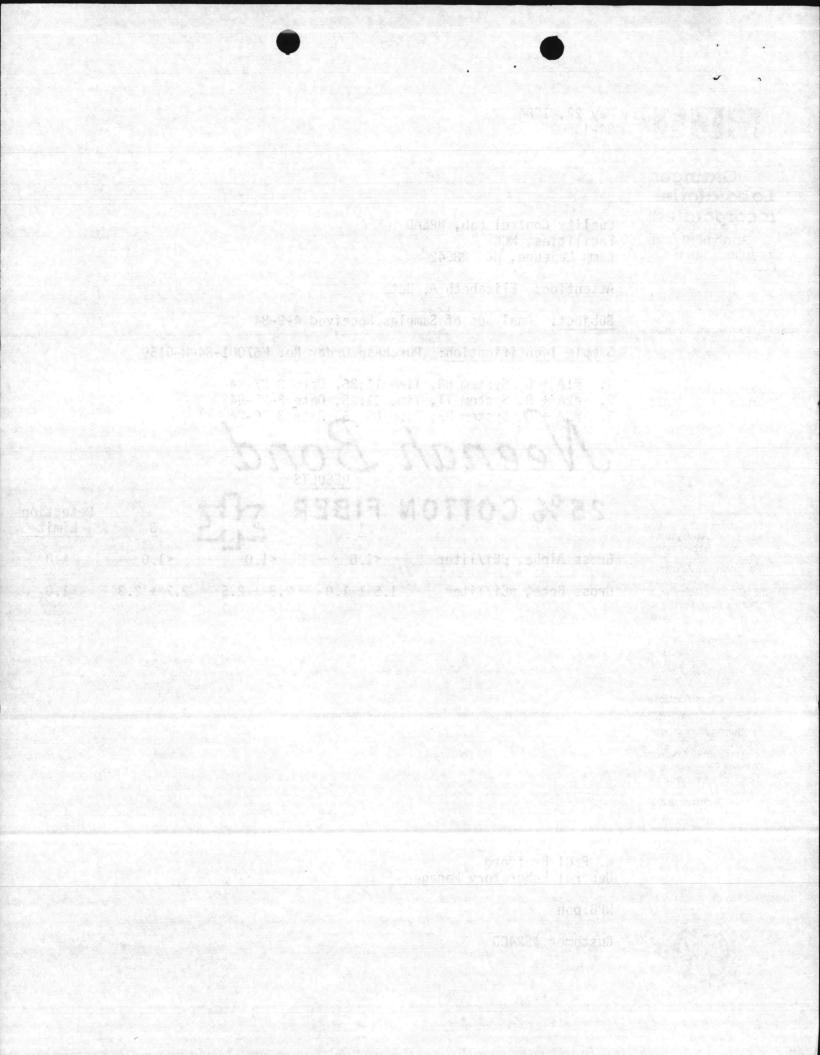
SDWA NPDES USDA USEPA

w. Paul Brofferd W. Paul Brafford

General Laboratory Manager

WPB:pph

Customer #92400





## Grainger Laboratories Incorporated

Analytical and Consulting Chemists

5500 Commercial Avenue Raleigh, NC 27612 (919) 787-3061

> 1040 Greenfield Street Wilmington, NC 28402 (919) 763-9793

May 22, 1984 84-10508

Water Quality Control Lab, NREAD Facilities, MCB Camp Lejeune, NC 28542

Attention: Elizabeth Betz

Subject: Analyses of Samples Received 4-9-84

Sample Identification: Purchase Order No. M67001-84-M-5159

#4A + B, System OB, Time 13:15, Date 3-30-84
 #5A + B, System CHB, Time 13:40, Date 3-30-84
 #6A + B, System RR, Time 14:00, Date 3-30-84

#### RESULTS

	<u>1</u>	2	<u>3</u>	Detection Limit
Gross Alpha, pCi/liter	<1.0	<1.0	<1.0	1.0
Gross Beta, pCi/liter	<1.0	$2.3 \pm 2.0$	1.8 ± 1.5	1.0

#### Analytical Laboratory

Environment Analysis Materials Identification of Unknowns Agricultural Products Fuels Textiles Hazardous Waste GC/MS ICP Metals Priority Pollutants

#### Consultation

Metallurgical Services Pollution Abatement Process Development Quality Control Methods Development Special Investigation

#### Certifications

SDWA NPDES USDA USEPA

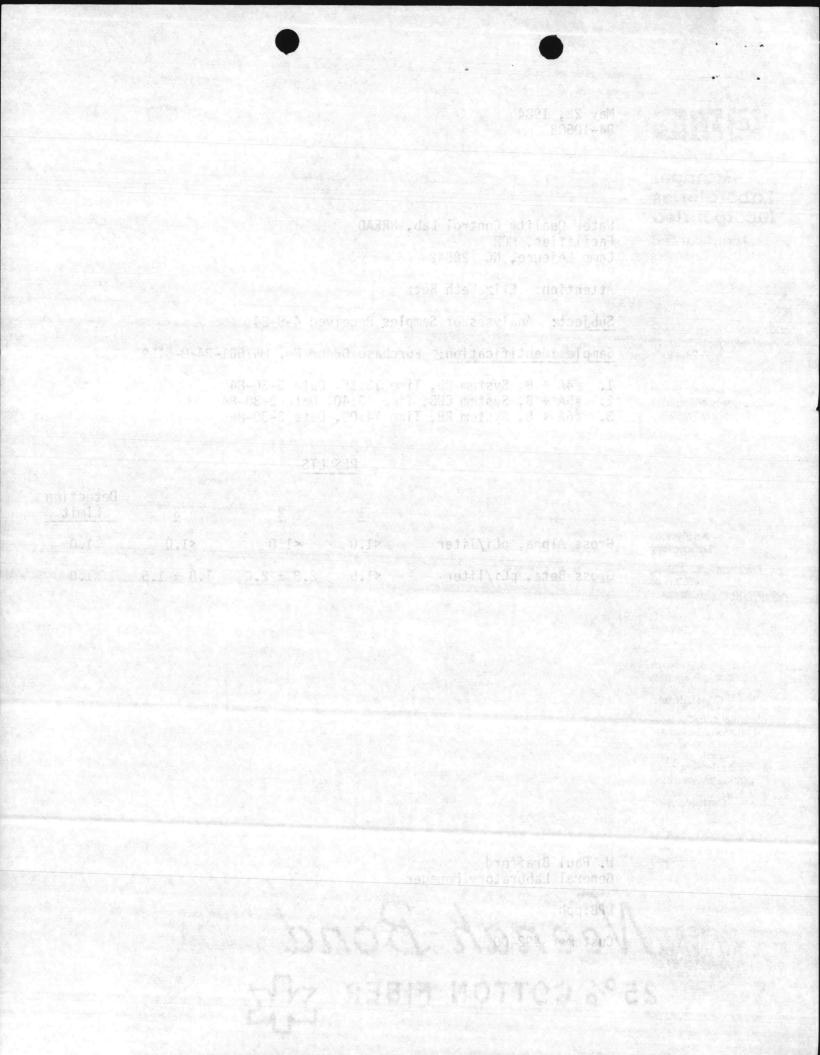
W. Pour Brafford

W. Paul Brafford General Laboratory Manager

WPB:pph

мьр: bbu

Customer #92400





# Grainger Laboratories Incorporated

Analytical and Consulting Chemists

5500 Commercial Avenue Raleigh, NC 27612 (919) 787-3061

> 1040 Greenfield Street Wilmington, NC 28402 (919) 763-9793

#### Analytical Laboratory

**Environment Analysis** Materials Identification of Unknowns Agricultural Products Fuels Textiles Hazardous Waste GC/MS ICP Metals **Priority Pollutants** 

#### Consultation

Metallurgical Services Pollution Abatement Process Development Quality Control Methods Development Special Investigation

Certifications

SDWA NPDES USDA USEPA July 10, 1984 84-10510

Water Quality Control Lab, NREAD, Facilities, MCB Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 4/9/84

Sample Identification: Purchase Order No. M67001-84-M-5159

1. Sample #7A & B 2. Sample #8A & B

#### RESULTS

	1	<u>2</u>
Gross Alpha, pCi/liter	<1.0	<1.0
Gross Beta, pCi/liter	10.4	<1.0
Radium 226, pCi/liter	<0.6	14-
Radium 228, pCi/liter	1.4	1-1-1-1 <u>-</u> -3

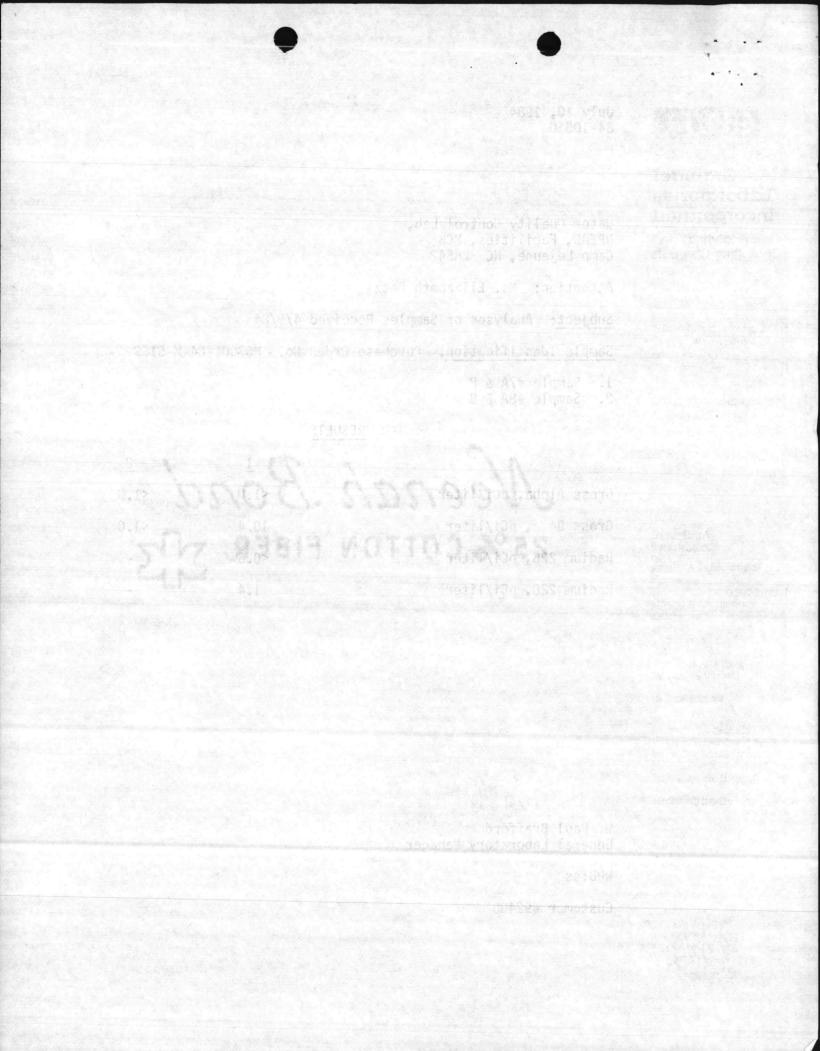
w. Paul Brofford

W. Paul Brafford General Laboratory Manager

WPB:ss



Customer #92400



MAIN/EAB/mac 6280/7 4 May 198

Mr. John Nantz Water Supply Branch Division of Health Services North Carolina Department of Human Resources Post Office Box 2092 Raleigh, North Carolina 27602

Dear Mr. Nantz:

Enclosed are copies of the results of the Radionuclide and Inorganic Chemical Analysis on the eight water treatment plant systems aboard Camp Lejeune Marine Corps Base. The Radionuclide sampling was conducted by the Water Quality Control Laboratory, Natural Resources and Environmental Affairs Division, Base Maintenance Department, from September 1979 through June 1980.

The samples were collected once every three months for a year, as required by the Safe Drinking Water Act. At the end of the sampling year the samples were sent to the Laboratory at the U. S. Army Environmental Hygiene Agency, Aberdeen Proving Ground, Maryland, for composite and analysis, as had been arranged by the Atlantic Division of the Naval Facilities Engineering Command, Norfolk, Virginia.

The Inorganic Chemical Analysis, for all parameters required by the Safe Drinking Water Act, except nitrates, was conducted in August 1979 by Jennings Laboratories, Incorporated, of Virginia Beach, Virginia. The nitrate analysis was conducted by the Water Quality Control Laboratory, Base Maintenance Department, Camp Lejeune, North Carolina, in September 1979.

Below is a table relating the sample identification number, for the radionuclide and inorganic chemical results, to the name of the water treatment plant serving each system.

Sample Identification Number

2

3

4

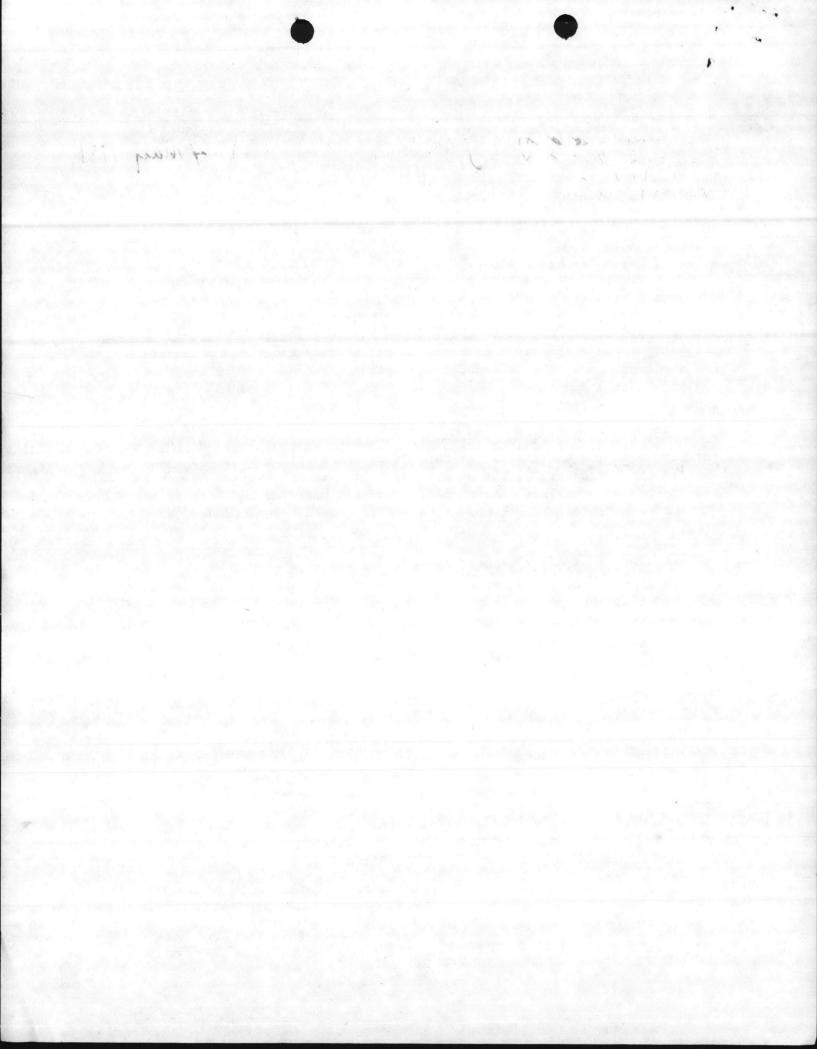
5

6

R

#### Water Treatment Plant

Holcomb Boulevard Tarawa Terrace Hadnot Point Onslow Beach Courthouse Bay Rifle Range New River Montford Point





MAIN/EAB/mac 6280/7

If additional information is needed regarding these results, please contact Ms. Elizabeth Betz, Supervisory Chemist, Water Quality Control Laboratory, Natural Resources and Environmental Affairs Division, Base Maintenance Department, telephone (919) 451-5977.

Sincerely,

Encl

BCC: LANTDIV, NAVFACENGCOM

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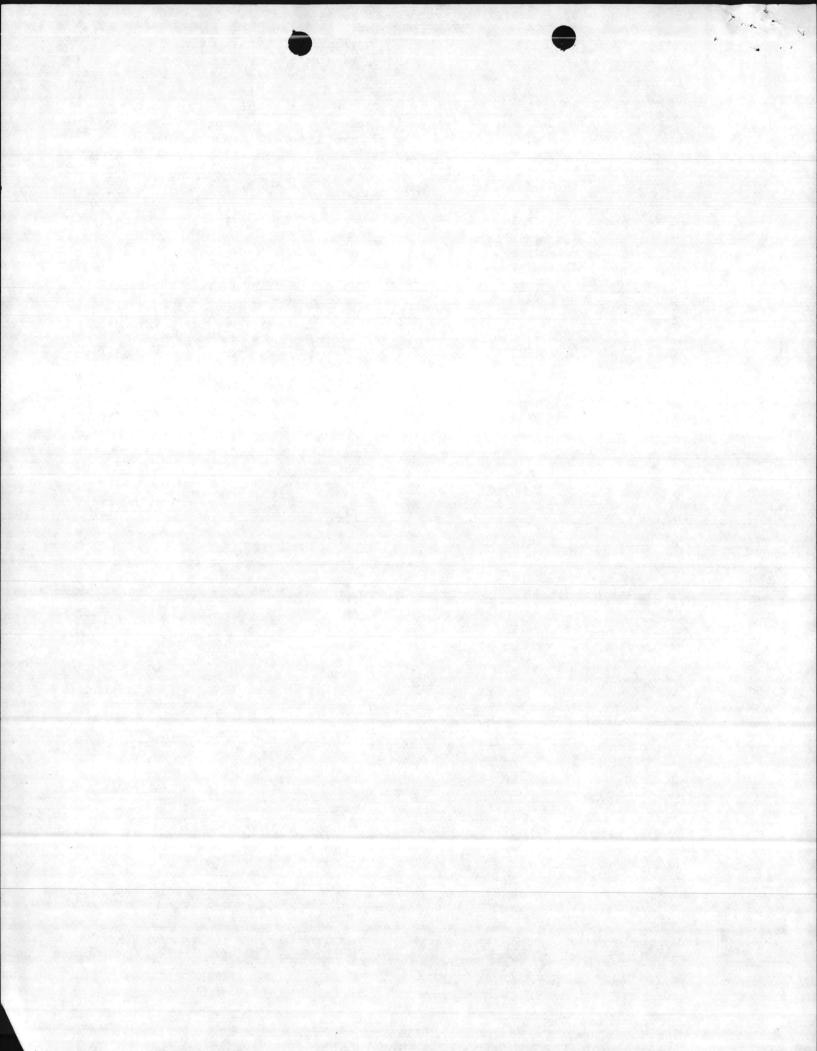
AND THE STATE OF A DESCRIPTION OF 

S. Alter Mark

# Results of Analyzing Drinking Water Samples

EAB Copy

Sample Identification	RCB Lab No.	Picocurie per Li <u>Gross Beta</u>	iter ±2 Standard <u>Gross Alpha</u>	Deviations <u>Tritium</u>
1	W722	1.8 ± 1.0	1.5 ± 1.1	< 451
2	W723	3.3 ± 1.0	1.3 ± 1.0	< 451
3	• W724	2.7 ± 0.9	3.0 ± 1.2	< 451
4	W725	1.9 ± 0.9	< 1.3	< 451
5	W726	< 1.3	1.6 ± 1.3	< 451
6	W727	< 1.3	< 1.3	< 451
7	W728	6.0 ± 1.3	< 1.6	< 451
8	W729	< 1.6	< 1.6	< 451

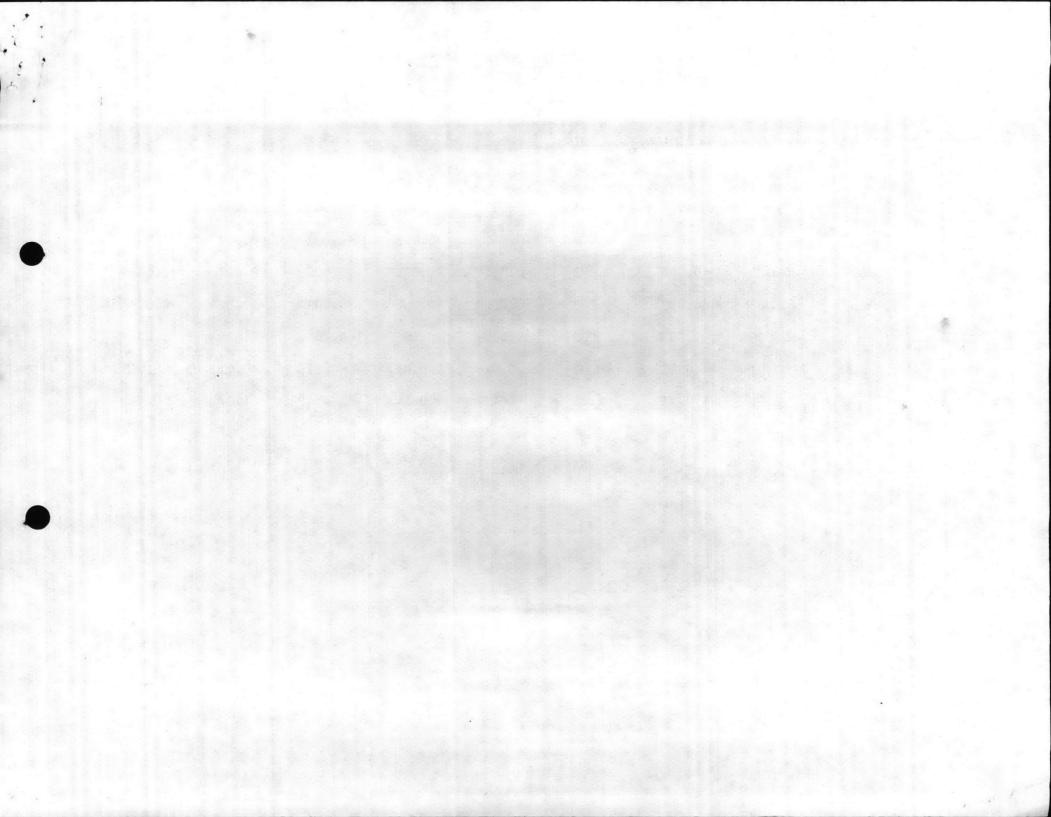


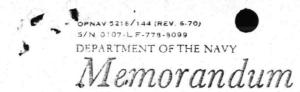
### Inorganic Chemical Analysis Results

Parameter	Unit	성 가 오	,	<u>,</u>		lentificati	Contraction of the second second		
			2	3	4	5	6		8
Arsenic	mg/1	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01
Barium	mg/1	<0.02	< 0.02	< 0.02	< 0.02	- 0.02	< 0.02	< 0.02	< 0.02
Cadmium	mg/1	<0.005	< 0.005	< 0.005	<0.005	≺0.005	<0.005	<0.005	-0.005
Chromium	mg/1	≺0.002	< 0.002	<0.002	<b>~0.002</b>	<0.002	<0.002	<0.002	<0.002
Lead	mg/1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	mg/1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	mg/1	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<b>~0.01</b>
Fluoride	mg/1	1.05	0.71	1.01	0.42	0.34	0.34	1.07	0.47

Nitrate mg/1 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.1 0.05

..





DATE: 20 October 1980

FROM: Ms. Betz, Chemist

TO: Mr. Sharpe, Ecologist

SUBJ: Letter from U. S. Army Environmental Hygiene Agency

cf 24 sept 1980.

Encl: Letter from U.S. Army Environmental Hygiene Agency 0 f

1. The letter encloses the results of the Radionuclide Analysis of our eight potable water systems.

2. The analysis was arranged through Lant Div (Contact Point-Wallace Carter). We collected the samples, one sample from each system for each quarter for a year. The samples were collected as follows:

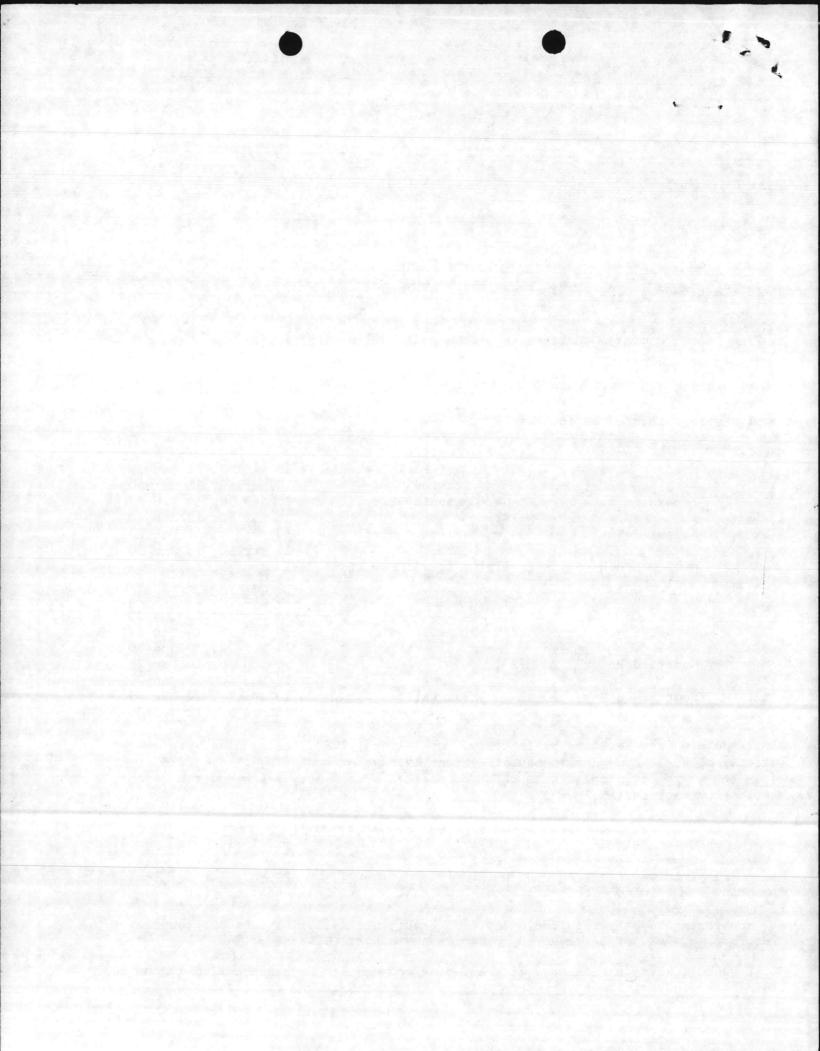
Sample	System	Bldg Loca	ation	I	Dates	
1	Holcomb Blvd.	4022 Midway	7 Park Fire 10	Sep 79,	14 Dec	79,
		Stat	tion 10	Mar 80,	13 Jun	80
2	Tarawa Terr.	TT-44 Commu	unity Bldg. 10	Sep 79,	14 Dec	79,
			10	Mar 80,	13 Jun	80
3	Hadnot Point	65 Quali	Lty Control 10	Sep 79,	14 Dec	79,
		Lat	. 14	Mar 80,	13 Jun	80
4	Onslow Beach	BA-115 Offic	cer's Pavilion 10	Sep 79,	14 Dec	79,
			14	Mar 80,	13 Jun	80
6	Rifle Range	RR-10 Excha	inge 10	Sep 79,	14 Dec	79,
			14	Mar 80,	13 Jun	80
7	Camp Geiger	G-770 Dispe	ensary 10	Sep 79,	14 Dec	79,
			10	Mar 80,	13 Jun	80
8	Montford Point	M-231 BOQ	10	Sep 79,	14 Dec	79,
			10	Mar 80,	13 Jun	80
5	Courthouse Bay	BB-7 Mess	Hall 10	Sep 79,	14 Dec	79,
			14	Mar 80,	13 Jun	80

Sample points were selected by Lant Div. On 7 August 1980, the samples were sent directly to U. S. Army Environmental Hygiene Agency for analysis, as directed by Lant Div. The quarterly samples were to be composited by the Army's Lab and run as one sample from each system.

3. The 1	imits are, Accord	ing to the S. D.	W. A., as follows	:
	Gross Beta	50 pCi/1		pCi/1=Picocurie per liter
	Gross Alpha	15 pCi/1		
	Tritium	20,000 pCi/1		
Comparing	the results with	the limits shows	that we are well	under the limits.

4. Monitoring is only required every four years, with sampling done the fourth year. Therefore we will not be required to sample again until September 1983.

5. I would like to have a copy of the letter and results to keep on file in the lab. Mr. Hatcher and Mr. Price would probably be interested in the results.





DEPARTMENT OF THE ARMY

r. Swatski/gl1/584-2619/2637

U.S. ARMY ENVIRONMENTAL HYGIENE AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010

HSE-LR-R

2 9 SEP 1980

SUBJECT: Results of Analyzing NIPDWR Samples

Commander Quality Control Lab NREA Div., Base Maintenance Dept. MCB Camp Lejeune, NC 28542

1. Reference:

a. Title 40, Code of Federal Regulations (CFR), 1979 ed., Part 141, National Interim Primary Drinking Water Regulations (NIPDWR).

b. Ltr, 1122C/WMK, Naval Facilities Engineering Command, 11 Jun 79, subject: Radionuclide for Potable Water.

c. Memo, Camp Lejeune, 6 Aug 80, subject: Radionuclide Analysis for Potable Water.

2. Results of analyzing NIPDWR samples for gross beta, gross alpha, and tritium are attached as Inclosure 1.

3. These results are below the screening tests for radioactivity in drinking water (ref para la).

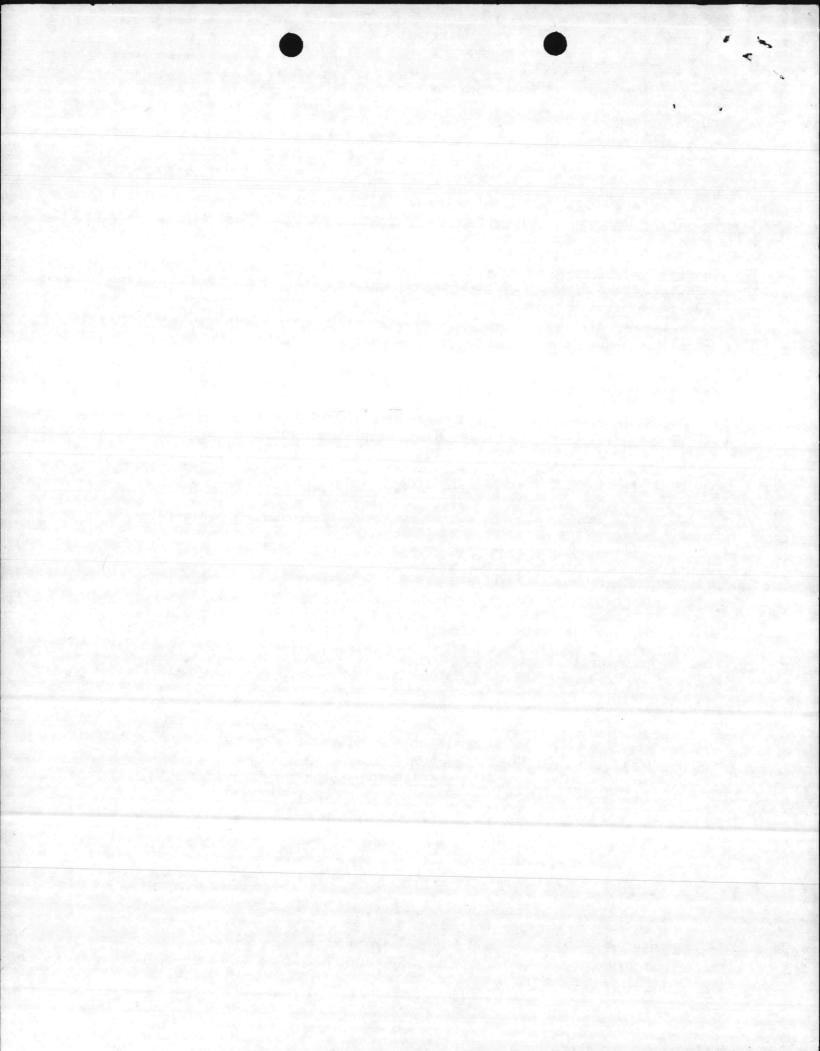
FOR THE COMMANDER:

JOHN F. MAJ. MSC Director, Laboratory Services

1 Incl as

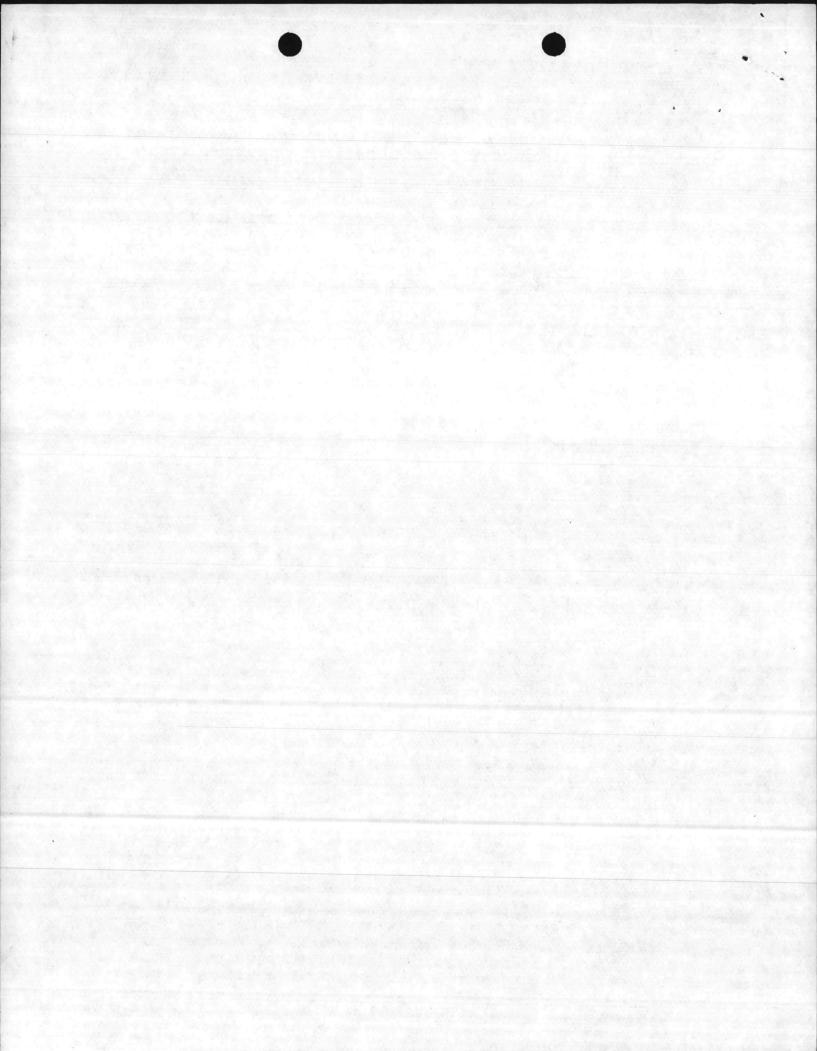
CF:

NAVFACENGCOMHQ, ATTN: Code 1122C



	-	Analyzing		
• full				
To Lab				

Sample Identification	RCB Lab No.	Picocurie per I <u>Gross Beta</u>	iter ±2 Standard <u>Gross Alpha</u>	Deviations <u>Tritium</u>
1	W722	1.8 ± 1.0	1.5 ± 1.1	< 451
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6	W727	< 1.3	< 1.3	< 451
7	W728	6.0 ± 1.3	< 1.6	< 451
8	<b>W7</b> 29	< 1.6	< 1.6	< 451



OPNAV 5216/144 (REV. 6-70) 5/N 0107-L F-778-8099 DEPARTMENT OF THE NAVY

# Memorandum

DATE: 20 Setober 1980

FROM: Ms. Betz, Chemist

TO: Mr. Sharpe, Ecologist

SUBJ: Letter from U. S. Army Environmental Hygieme Agency

Encl: Letter from U.S. Army Environmental Hygiene Agency

1. The letter encloses the results of the Radionuclide Analysis of our eight potable water systems.

2. The analysis was arranged through Lant Div (Contact Point-Wallace Carter). We collected the samples, one sample from each system for each quarter for a year. The samples were collected as follows:

Sample	System	Bldg Location	Detes
1	Holcomb Blvd.	4022 Midway Park Fire Station	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
2	Tarawa Teer.	TT-44 Community Bldg.	19 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
3	Hadnot Point	65 Quality Control Lab.	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
4	Owslow Beach	BA-115 Officer's Pavilion	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
5	Rifle Range	RR-10 Exchange	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
8	Camp Gééger	g-770 Dispensary	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
8	Montford Point	M-231 BOQ	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
5	Courthouse Bay	BB-7 Mess Hall	10 Sep 79, 14 Dec 79,
			14 Mar 80, 13 Jun 80

Sample points were selected by Lant Div. On 7 August 1980, the samples were sent directly to U. S. Army Environmental Hygiene Agency for analysis, as directed by Lant Div. The quarterly samples were to be composited by the Army's Lab and run as one sample from each system.

3. The limits are, According to the S. D. W. A., as follows: Gross Beta 50 pCi/l pCi/l=Picocurie per liter Gross Alpha 15 pCi/l Tritium 20,000 pCi/l

Comparing the results with the limits shows that we are well under the limits.

4. Monitoring is only required every four years, with sampling done the fourth year. Therefore we will not be required to sample again until September 1983.

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Ma. Sera, Chamies

Mr. Shared, Scologich

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10 Mar 80, 13 Jun 80	station	and the second s	a second s	
10 Ben 79, 14 Dec 79,	Community Eldg.	$\gamma\gamma - J_{e}J_{e}$	Tarava Tear.	2
10 Mar 50, 13 Jun 80				
10 Sep 79, 15 Dec 79,	Quality Control	65	Hadnot Polns	2
14 Mar 30, 13 Jun 80	.dt.l			
10 Sep 79, 14 Dec 79,	Officer's Pavilion	184-115	Onsi <b>qu</b> slow Beach	4
14 Mar 30, 13 Jun 80				
10 Sec 79, 14 Dec 79,	Exchange	DI-10	Bifia Kange	5
14 Mar 80, 13 Jun 80				
10 Sep 79, 14 Dec 79,	Dispensary	Q-270	Camp Georger	8
10 Mar 70, 13 Jun 80				
10 88 77, 14 202 79,	300	M-231	Montford Point	
10 Mar 30, 13 Jun 30			and the second	
10 Sec 79, 16 Dec 79,	Heas Mail	1313-7	Courthouse Bay	5
14 Mar 30, 13 Jun 30			and the second second second second	

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DATE: 6 August 1980

FROM: Quality Control Lab., NREA Div., Base Maintenance Dept., MCB Camp Lejeune, NC

TO: US Army Environmental Hygiene Agency, Attn: HSE-LA

SUBJ: Radionuclide Analysis for Potable Water

ENCL: (1) Potable Water Samples-32 total

These samples are from the eight potable water systems aboard MCB Camp Lejeune. There are four samples from each system, one for each quarter, to be composited and analyzed for radionuclide content in according with the Safe Drinking Water Act.

ANCE

ONE IN EACH BOX 6 BOXES 5 OF 6 EACH, 1 OF 2 EACH " 32 6 August 1980 -

Quality Control Leb., MRA Div., Base Maintenance Dept., MCB Camp Lejeune, NC

US Army Environmental Hygiese Agency, Attu: HSE-LA

Radionuclide Analysis for Potable Water

ENCL: (1) Potable Water Samples-32 total

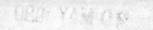
These samples are from the eight potable water systems aboard MCB Camp Lejeune. There are four samples from each system, one for each quarter, to be composited and analized for radionuclide content in according with the Safe Drinking Water Act.

20 MAY 1980 ROUTINE REPLY, ENDORSEMENT, TRANSTAL OR INFORMATION SHEET AVEXOS-3989 (Rev 12-62) 0104 901 45 DATE FROM FILE NUMBER Commander, Atlantic Division, Naval Facilities Comman Engineering SUB IECT Radionuclide analysis for REFERENCE Water 93-50 (a) P.L. ENCLOSURE (1) Radionuclide Sampling TO: Miss Elizabeth Water Quality Laboratory bottles - 8 total Natural Resources and Environmental L'Affairs Division Aftairs Division Base Maintenance Department This form may be used in a window Camp Lejeune, NC 28542 envelope. VIA Endorsement on XFORWARDED RETURNED FOLLOW-UP REQUEST ADVISE SUBMIT MESSAGE MESSAGE Х MESSAGE Х SUBJECT DOCUMENT(S) WAS/WERE FOR-CERTIFY ENCLOSURE AS TO RECEIPT AND ACCEPTANCE OF MATERIAL AND FOR-Х WARDED TO YOUR OFFICE FOR APPROPRIATE ACTION AS A MATTER UNDER YOUR JURISDICTION. WARD TO FOR INFORMATION OR CERTIFICATION SUBJECT DOCUMENTS WAS/WERE APPROVED AND/OR FILE. AND FORWARDED TO YOU. - COPIES OF SUBJECT CHANGE ORDER COPY(IES) OF THIS CORRESPOND. AMENDMENT OR MODIFICATION ENCE WITH YOUR REPLY. APPROVED DISAPPROVED CHANGE NOTICE TO THE SUPPLIER ENCLOSURE (S) -- IS/ARE FORWARDED APPROVAL IS IS NOT RECOMMENDED AS REQUESTED BY REFERENCE - COPIES OF APPLICABLE PLANS AND/OR SPECIFICATIONS. ENCLOSURE(S) IS/ARE RETURNED FOR CONCURRING IN RECOMMENDATIONS MADE IN THE BASIC CORRESPONDENCE. CORRECTION AS INDICATED. FOR PLAN ACTION AS INDICATED CORRECTED ENCLOSURE(S) AS REQUESTED COMMENTS AND/OR RECOMMENDATIONS. CLASSIFICATIONS OF DEFECTS FOR SUBJECT PERSON'S ATTENTION SHOULD SUBJECT LITEMS MAILING LIST ACTION BE INVITED TO THIS MATTER CONFIRMATION THAT INSPECTION OR SOURCE INSPECTION IS NOT REQUIRED FOR ASSIGNMENT OF BUREAU FILE NUM. SUBJECT PERSON(S) REPORTED TO THIS COMMAND BER(S) INSPECTION UNDER THE SUBJECT SUBJECT PERSON(S) COMPLETED HIS/THEIR SUBCONTRACT IS NOT REQUIRED ON A LOAN BASIS DUTY AND WAS/WERE DETACHED FROM THIS RETURN BY COPIES OF SUBJECT PURCHASE COMMAND DOCUMENT. IF SOURCE INSPECTION OR SIGN ORIGINAL RECEIPT AND RETURN TO NAME AND LOCATION OF SUPPLIER OF PROGRESSING IS REQUIRED SUBJECT ITEMS. THIS OFFICE. STATUS OF MATERIAL ON SUBJECT SUBJECT FILES. WHICH ARE LOCATED IN PURCHASE DOCUMENT BOX NO. \_\_\_\_ SHIPMENT NO. \_\_\_ SUBCONTRACT NUMBER FOR SUBJECT ITEM CLEARANCE AS INDICATED IN BASIC COR-RESPONDENCE VERIFIED. NO REPLY UNLESS SUBJECT PURCHASE DOCUMENT HAS BEEN REPLY TO THE ABOVE REFERENCE(S) BY NEGATIVE. REQUESTED AND WILL BE FORWARDED WHEN RECEIVED. VERIFICATION OF NEED-TO-KNOW FOR VISIT ENDORSEMENT OF SUBJECT SUBCON-PERSONNEL CLEARANCES VERIFIED. - COPY(IES) OF REFERENCE DE-TRACT IS BEING DELAYED PENDING RECEIP SCRIBED ABOVE WAS/WERE NOT RECEIVED. OF BASIC PURCHASE DOCUMENT. SUBJECT DOCUMENT(S) WAS/WERE FOR-APPROPRIATION SYMBOL SUBHEAD AND WARDED TO CHARGEABLE ACTIVITY WHETHER SUBJECT ITEMS ARE TO BE COMMERCIALLY SHIPPED OR AT GOVERN-SUBJECT DOCUMENT(S) IS/ARE WAS/WERE MENT EXPENSE RETURNED FOR A CERTIFICATE IN LIEU OF SUBJECT BILL SEE REMARKS ON THE REVERSE SIDE. OF LADING WHICH HAS BEEN LOST. COPY TO SIGNATURE

Wallace Carta

\* U.S. GOVERNMENT PRINTING OFFICE: 1969-393-710/S-199

B-26306



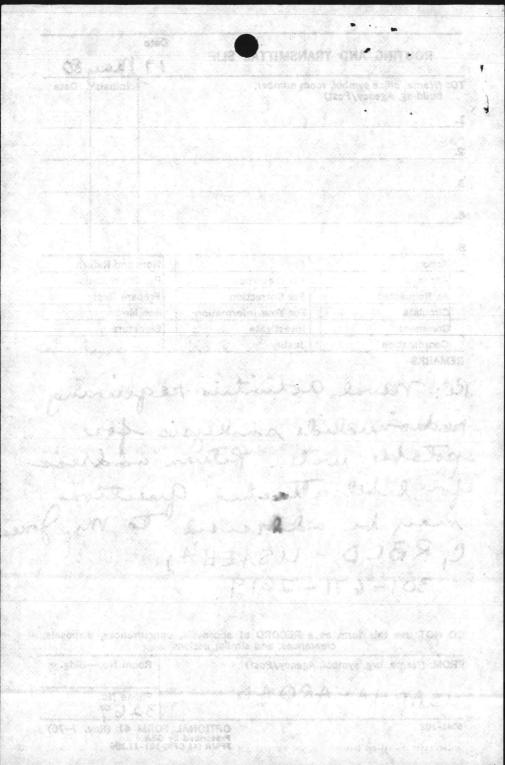
ANT TENER CONTRACTOR SHETTER

	ROUTING AND		Date 19	may	80	
ApprovalFor ClearancePer ConversationAs RequestedFor CorrectionPrepare ReplyCirculateFor Your InformationSee MeCommentInvestigateSignatureCoordinationJustifyREMARKS&: Maral Activities requiring	IO: (Name, office symb building, Agency/Po	ol, room number, ost)		Initials	Date	
ApprovalFor ClearancePer ConversationAs RequestedFor CorrectionPrepare ReplyCirculateFor Your InformationSee MeCommentInvestigateSignatureCoordinationJustifyREMARKSL: Naval Activities requiring						
ApprovalFor ClearancePer ConversationAs RequestedFor CorrectionPrepare ReplyCirculateFor Your InformationSee MeCommentInvestigateSignatureCoordinationJustifyREMARKSL: Naval Activities requiring	2					
ApprovalFor ClearancePer ConversationAs RequestedFor CorrectionPrepare ReplyCirculateFor Your InformationSee MeCommentInvestigateSignatureCoordinationJustifyREMARKSe:NewalActivitiesrequiring			E.S.	1		
Approval       For Clearance       Per Conversation         As Requested       For Correction       Prepare Reply         Circulate       For Your Information       See Me         Comment       Investigate       Signature         Coordination       Justify       REMARKS         Re:       Nural Activities required				1.61		
Approval       For Clearance       Per Conversation         As Requested       For Correction       Prepare Reply         Circulate       For Your Information       See Me         Comment       Investigate       Signature         Coordination       Justify       REMARKS         Re:       Nural Activities required						
As Requested     For Correction     Prepare Reply       Circulate     For Your Information     See Me       Comment     Investigate     Signature       Coordination     Justify     Signature       REMARKS     Contraction     Requires	Action	File	Not	e and Retu	Irn	
Circulate For Your Information See Me Comment Investigate Signature Coordination Justify REMARKS Le: Newal Activities requiring	Approval	For Clearance	Per	Per Conversation		
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Coordination Justify REMARKS Le: Noval activities requiring	Circulate	For Your Information	See	See Me		
REMARKS Le: noval activities requiring	Comment	Investigate	Sign	nature		
le: noval activities requiring	Coordination	Justify			10.00	
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301-671-2619

FROM: (Name, org. symbol, Agency/Post)	Room NoBldg.
USAEHA - AROAD	Phone No. 3269
<b>5041-102</b> * GPO : 1977 O - 241-530 (3450)	OPTIONAL FORM 41 (Rev. 7-76) Prescribed by GSA FPMR (41 CFR) 101-11.206

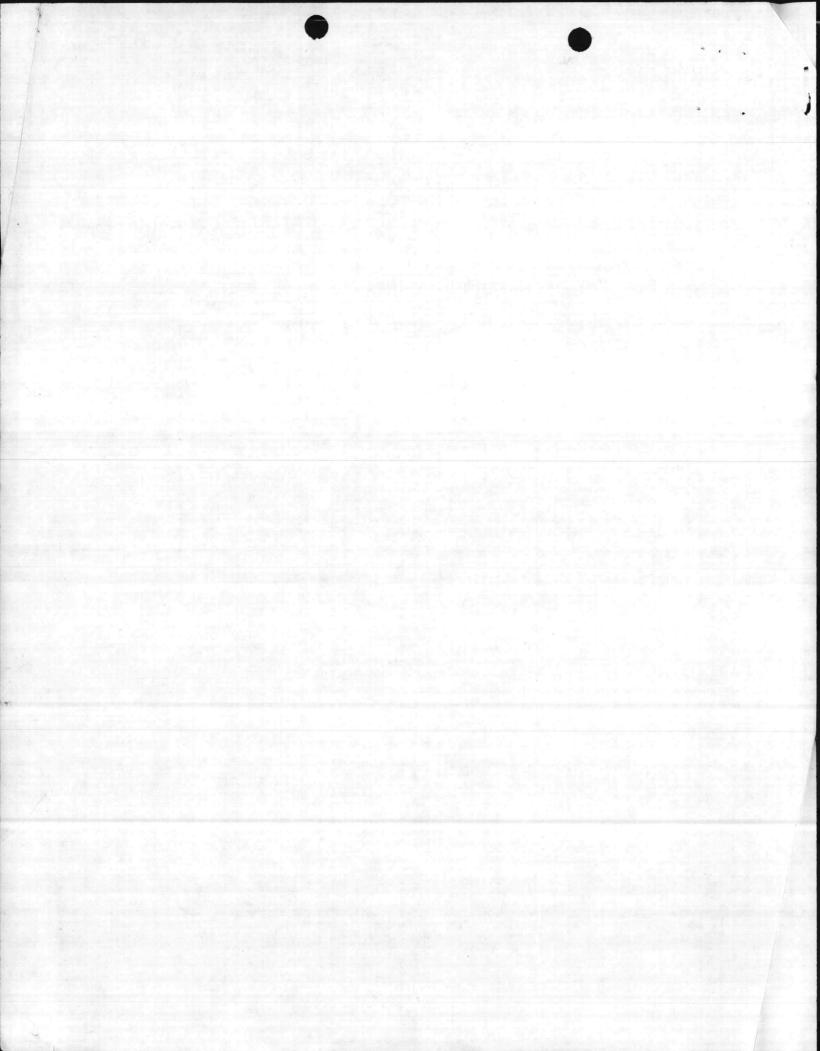


20 MAY 1980 ROUTINE REPLY, ENDORSEMENT, WISH ALVEXOS-3989 (Rev. 12-62) 0104 901 4901 SMITTAL OR INFORMATION SHEET DATE FROM FILE NUMBER Commander, Atlantic Division, Naval Facilities Command Engineering SUB JECT analysis for potable water Radionuclide REFERENCE Water (a) H.L. 93-523. Drinking Act ENCL OSURE (1) Radionuclide Sampling To: Miss Elizabeth Betz Water Quality Laboratory Natural Resources and Environmental Affairs Division Base Muintenance Department bottles - & total This form may be used in a window Camp Lejeune, NC 28542 envelope. VIA Endorsement on X REQUEST ADVISE FORWARDED RETURNED FOLLOW-UP SUBMIT MESSAGE х MESSAGE MESSAGE X SUBJECT DOCUMENT(S) WAS/WERE FOR-CERTIFY ENCLOSURE AS TO RECEIPT AND ACCEPTANCE OF MATERIAL AND FOR-WARDED TO YOUR OFFICE FOR APPROPRIATE ACTION AS A MATTER UNDER YOUR JURISDICTION. WARD TO SUBJECT DOCUMENTS WAS/WERE APPROVED FOR INFORMATION OR CERTIFICATION AND FORWARDED TO YOU. AND/OR FILE. -COPIES OF SUBJECT CHANGE ORDER COPY(IES) OF THIS CORRESPOND. AMENDMENT OR MODIFICATION APPROVED DISAPPROVED ENCE WITH YOUR REPLY. CHANGE NOTICE TO THE SUPPLIER - IS/ARE FORWARDED ENCLOSURE (S) -APPROVAL IS IS NOT RECOMMENDED AS REQUESTED BY REFERENCE - COPIES OF APPLICABLE PLANS ENCLOSURE(S) IS/ARE RETURNED FOR AND/OR SPECIFICATIONS. CONCURRING IN RECOMMENDATIONS MADE IN THE BASIC CORRESPONDENCE. CORRECTION AS INDICATED. FOR PLAN ACTION AS INDICATED CORRECTED ENCLOSURE(S) AS REQUESTED COMMENTS AND/OR RECOMMENDATIONS. CLASSIFICATIONS OF DEFECTS FOR SUBJECT ITEMS SUBJECT PERSON'S ATTENTION SHOULD BE INVITED TO THIS MATTER MAILING LIST ACTION CONFIRMATION THAT INSPECTION OR SUBJECT PERSON(S) REPORTED TO THIS SOURCE INSPECTION IS NOT REQUIRED FOR ASSIGNMENT OF BUREAU FILE NUM-COMMAND REP(S) INSPECTION UNDER THE SUBJECT SUBJECT PERSON(S) COMPLETED HIS/THEIR SUBCONTRACT IS NOT REQUIRED ON A LOAN BASIS DUTY AND WAS/WERE DETACHED FROM THIS RETURN BY COPIES OF SUBJECT PURCHASE COMMAND DOCUMENT. IF SOURCE INSPECTION OR NAME AND LOCATION OF SUPPLIER OF SIGN ORIGINAL RECEIPT AND RETURN TO PROGRESSING IS REQUIRED THIS OFFICE. SUBJECT ITEMS. STATUS OF MATERIAL ON SUBJECT SUBJECT FILES. WHICH ARE LOCATED IN PURCHASE DOCUMENT SUBCONTRACT NUMBER FOR SUBJECT ITEM BOX NO. SHIPMENT NO. CLEARANCE AS INDICATED IN BASIC COR-RESPONDENCE VERIFIED, NO REPLY UNLESS REPLY TO THE ABOVE REFERENCE(S) BY SUBJECT PURCHASE DOCUMENT HAS BEEN NEGATIVE. REQUESTED AND WILL BE FORWARDED WHEN RECEIVED. VERIFICATION OF NEED-TO-KNOW FOR VISIT \_\_ OF SUBJECT SUBCON-ENDORSEMENT PERSONNEL CLEARANCES VERIFIED. -COPY(IES) OF REFERENCE DE-TRACT IS BEING DELAYED PENDING RECEIPT SCRIBED ABOVE WAS/WERE NOT RECEIVED. OF BASIC PURCHASE DOCUMENT. SUBJECT DOCUMENT(S) WAS/WERE FOR-APPROPRIATION SYMBOL SUBHEAD AND WARDED TO CHARGEARLE ACTIVITY WHETHER SUBJECT ITEMS ARE TO BE COMMERCIALLY SHIPPED OR AT GOVERN-SUBJECT DOCUMENT(S) IS/ARE WAS/WERE MENT EXPENSE RETURNED FOR A CERTIFICATE IN LIEU OF SUBJECT BILL SEE REMARKS ON THE REVERSE SIDE. OF LADING WHICH HAS BEEN LOST. COPY TO SIGNATURE

Wallace Cartes

\* U.S. GOVERNMENT PRINTING OFFICE: 1969-393-710/S-199

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ROUTING AND	TRANSMITTAL SLIP	Date 19	may	80
O: (Name, office symbol building, Agency/Po	ol, room number, ost)		Initials	Date
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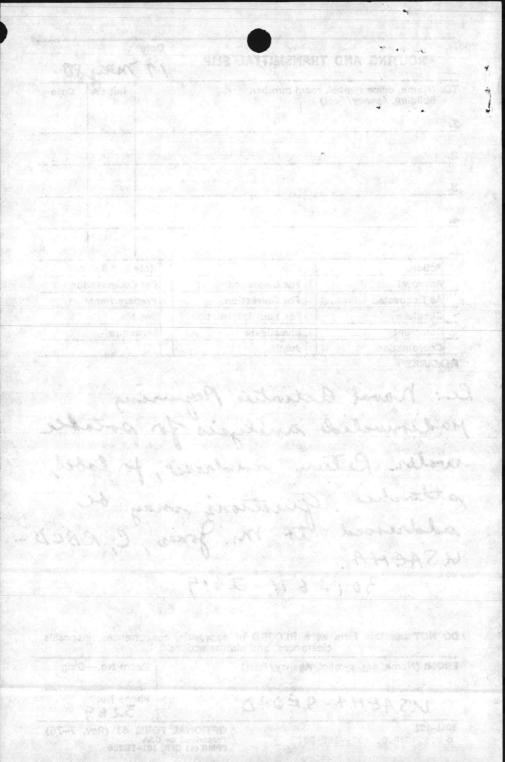
5041-102 ➡ U.S. G.P.O. 1979-285-092

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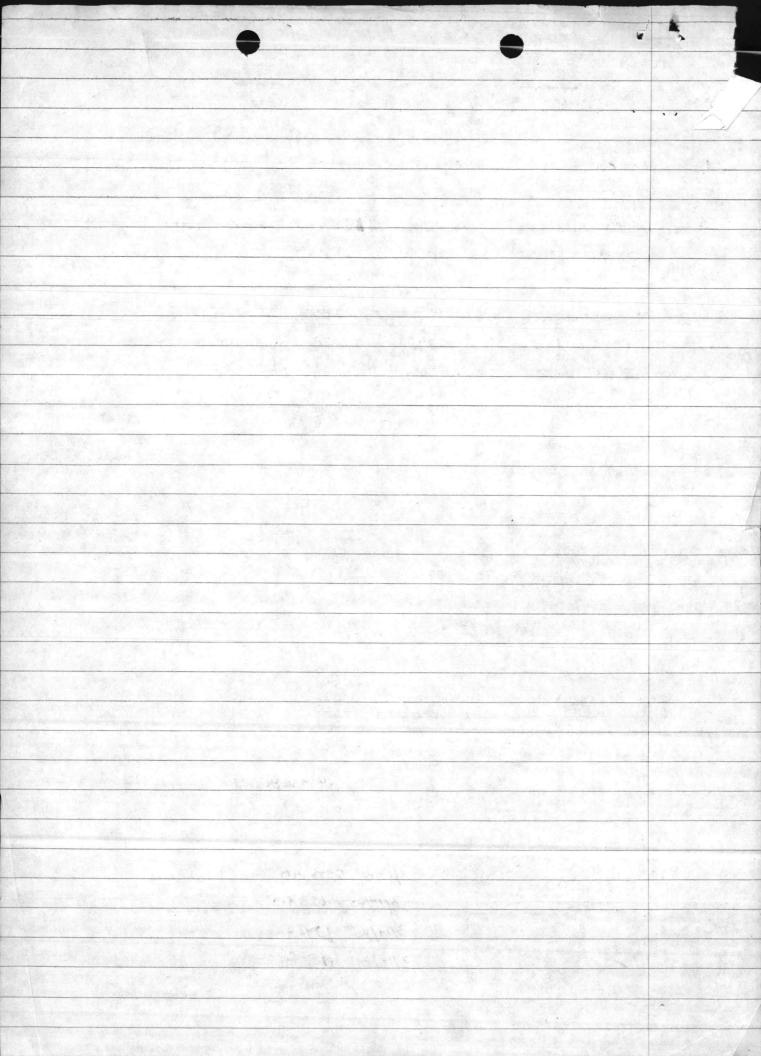
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Phone No. 3269

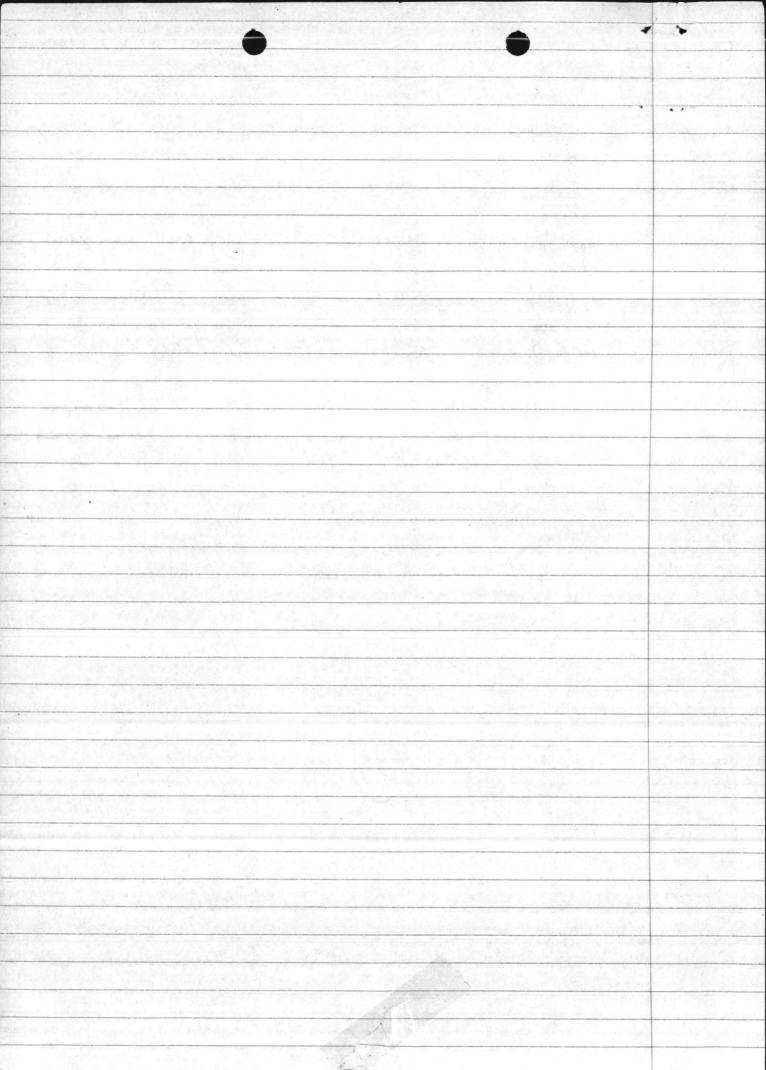


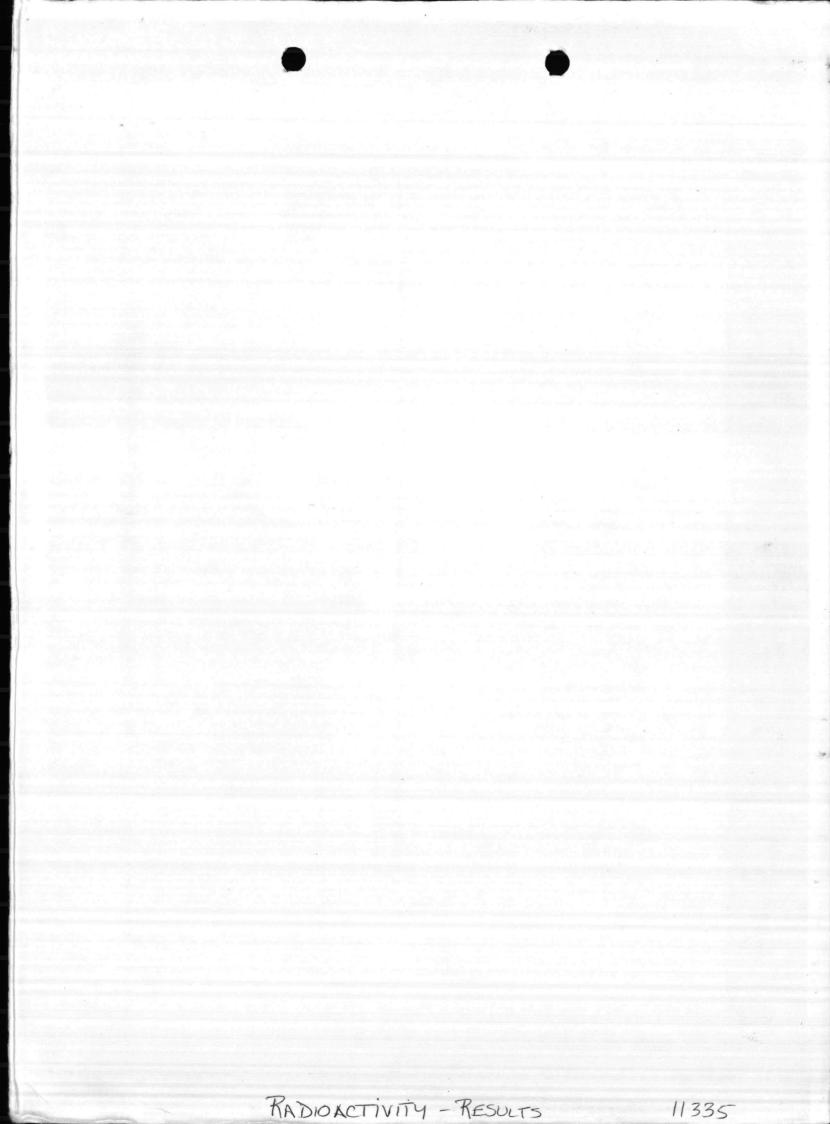
				A second s
	·			TALL QUARTER '79
				RADIONUCLEIDE SAMPLES
SAMPLE #	DIST SYSTM	BL06 #	TIME	10 SEPT, '79
				Aroes LURE
1	Hole. Bivs	4022	1115AM	MID PARK FIRE STA.
2		77-44	1145Am	COMMUNIT BLOG
3	HADNOT PT	65	1130 PM	QC LAB
4	ONS BEACH	BA-115	133087	OFFICER'S PAVILION
5	C'HOUSE BAY	BB-7	1400 pm	MESS HALL
6	R RANGE	RR-10	1420 82	EXCHANCE
7	CAMP GEIGER	6-770	14 50 PM	DISPENSARY
4	MONTFORD POLAT	M-231	1510 84	BOR
	Hole Avo	4022	905 A.M.	WINTER QUARTER 179
				14 Dec 73 ANDREN LUKE
1	HOLE BLUP	4022	0905 Am	MID PK FIRE ST
2	TT	77-44	0925 Am	COMM, BLOG
3	HAD PT.	65	1200 N	QC LAB
4	ONS BEACH	BA-101	1130	EXCHANCE SMACKBAR
5	C'HOUSE BAY	BB-7	1115	MESS HALL
6	R RAUGE	RR-10	1040 AM	EXCHANGE
7	CAMP GOIGER	9-770	1005 AM	DISPENSARY
0	MONTFORD POINT	M-231	0940 AM	BOQ
				ексене Зналовила на население на преди на полоди полодини на протоко стало у на околи стар и на ток 
				SPRING QUARTER
			14 MAR BL	o and 10 MAR 80 LUKE +
1	HOLC BLVD	4022	0945AM	MID PK. FIRE STD
2	TT	77-44	130 PAM	Comm, BLDG
. J	HAD PT	65 3/	114/80 0945 AM	Q.C. LAB
4	DNS BEACH	BA-101 3	3/14/80 102011	EXCHANCE SNACKBAR
5	CHOUSE BAY	BB-7 3	/14/80 1040An	MESS HALL
6	R. RANGE	RR-103/	114/80 1200 Å	EXCHANCE
7	CAMP GEEGER	G-770	11.20AM	DISPENSARY.
\$	MONTFORD POINT	M-231	1020 AM	BOQ



ANDREW LUNE

SAMPLE A	OIST, SYSTER	BLOGA	TIME	ter gabe to the adde water was the
1	HB	4022	1200N	MID PARK FINE STA
2	715 TT	·π-4 <del>4</del>	1210 pm	COMM BLOG
3	HP	65		ac LAB
4	OB	BA-101	1335 pm	EXCH SNACK BAR
5	СНВ	BB-7	1350 pm	MESS MALL
6	RR	RR-10	1420	EXCHAMLE
7	66	6-770	1510	DISPENSAR
8	MP(CJ)	M-231	1550	BOQ
Ð	MP(CS)	11-23	1330	
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