

6280/1
NREAD
24 Jan 1986

From: Director, Natural Resources and Environmental Affairs Division,
Marine Corps Base, Camp Lejeune
To: Environmental Engineer, Facilities Department, Marine Corps
Base, Camp Lejeune
Base Maintenance Officer, Marine Corps Base, Camp Lejeune
Subj: ANALYSIS OF DRINKING WATER SYSTEMS ABOARD CAMP LEJEUNE/MCAS,
NEW RIVER

Encl: (1) Chemical Analysis Results of Hadnot Point Finished Water
(2) " " " " Tarawa Terrace " "

1. Enclosures (1) and (2) indicate no immediate concern over the quality of water in the two systems at Tarawa Terrace and Hadnot Point. While the periodic reading for Benzene are felt to be a quality control problem in sampling and/or laboratory analysis, samples of each active raw water well for Hadnot Point was taken by NREAD and BMO last week. Results are anticipated in early February.
2. Unless advised otherwise, Tarawa Terrace wells are scheduled for February. Please note that due to previously discussed personnel shortages in the NREAD Laboratory, local capability to generate certified data is not anticipated in the immediate future.
3. The cost of analysis of the sampling shown in enclosures (1) and (2) was approximately \$10,000.00. Funding by Atlantic Division, Naval Facilities Engineering Command of this analysis is anticipated to end not later than the end of this fiscal year. NREAD has entered \$120,000 in the 1988 POM to reflect the overall loss of funding for laboratory analysis.
4. It is apparent that careful planning will be required to absorb this additional cost and to hold actual sampling to the essential minimum which protects public health and provides compliance with applicable standards, laws and regulations.
5. Accordingly, the Environmental Engineer is requested to obtain command policy guidance on this issue so that NREAD and BMO can develop a satisfactory schedule/frequency for sampling the various wells and finished water supplies within the subject water systems. This will require coordination with CO, MCAS, New River and Naval Hospital. Please advise.

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From the above it is seen that the water supply is not pure and that it contains various impurities which are harmful to health. It is therefore recommended that the water should be treated before drinking.

ANALYSIS OF DRINKING WATER SUPPLY AT THE MUNICIPALITY

The following table shows the results of the analysis of the water supply at the Municipality.

The analysis shows that the water contains various impurities such as iron, manganese, and hardness. The iron content is 0.5 mg/l, manganese is 0.2 mg/l, and hardness is 150 mg/l. These impurities are harmful to health and should be removed before drinking.

The water is also contaminated with bacteria and viruses. It is therefore recommended that the water should be treated with chlorine before drinking.

The water is also contaminated with various chemicals such as lead, copper, and zinc. These chemicals are harmful to health and should be removed before drinking.

The water is also contaminated with various heavy metals such as lead, copper, and zinc. These metals are harmful to health and should be removed before drinking.

The water is also contaminated with various organic compounds such as pesticides and herbicides. These compounds are harmful to health and should be removed before drinking.

The water is also contaminated with various inorganic compounds such as nitrates and nitrites. These compounds are harmful to health and should be removed before drinking.

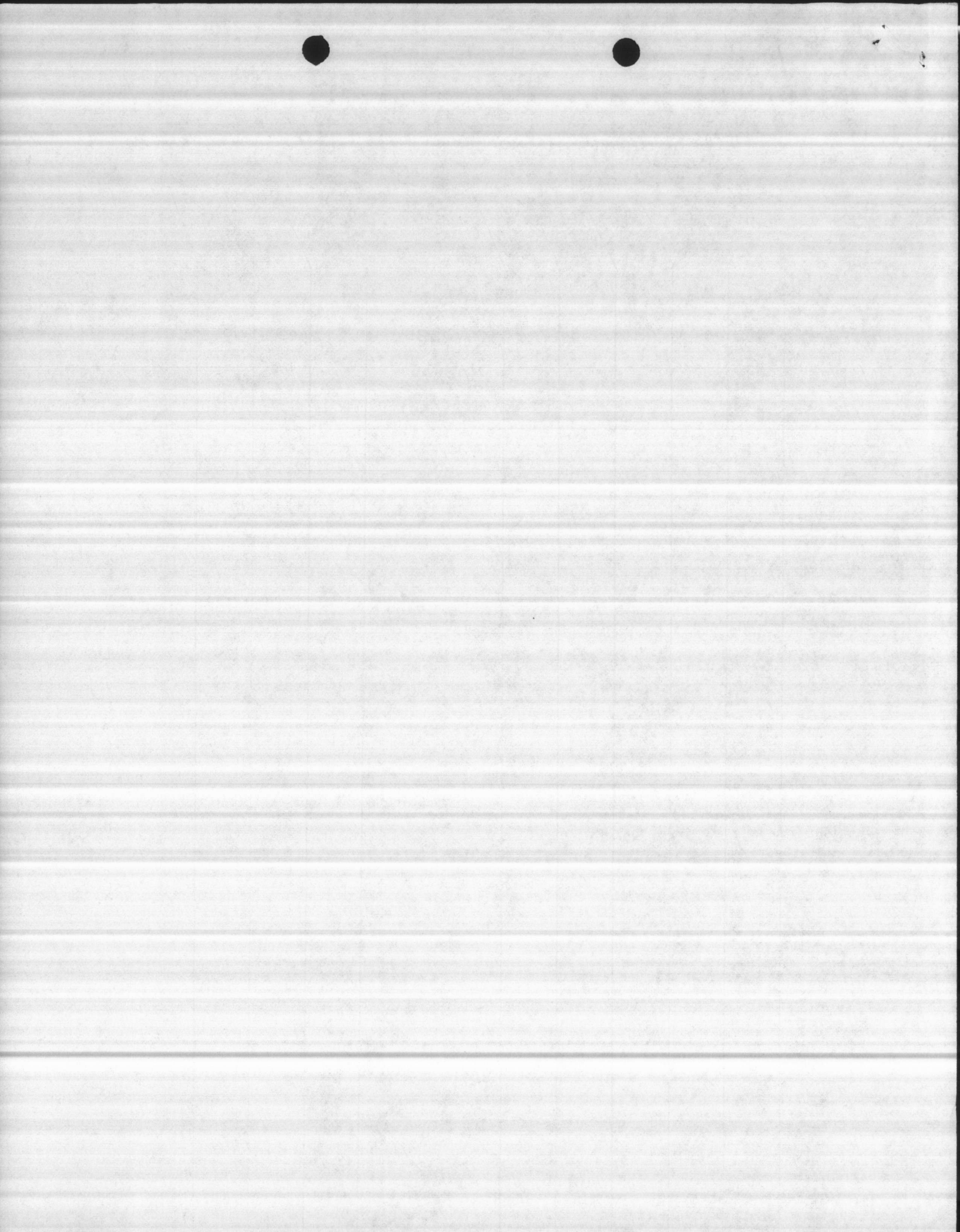
The water is also contaminated with various trace elements such as arsenic and selenium. These elements are harmful to health and should be removed before drinking.

SYSTEM: HADNOT POINT

DATE	TTHMs	1,1,1-TRICHLOROETHANE	BENZENE	METHYLENE CHLORIDE	TOLUENE	DATE	TTHMs	BENZENE	TOLUENE
4/24/85	*	2.1				12/2/85	*		
6/18/85	*					12/10/85	*	38	10
6/24/85	*					12/18/85	*	1.0	
7/1/85	*					12/23/85	*		
7/8/85	*					12/30/85	*		
7/15/85	*								
7/23/85	*								
7/31/85	*								
8/13/85	*								
8/19/85	*								
8/27/85	*								
9/3/85	*								
9/10/85	*								
9/16/85	*								
9/23/85	*								
10/1/85	*								
10/9/85	*								
10/15/85	*								
10/21/85	*								
10/29/85	*								
11/4/85	*								
11/12/85	*								
11/19/85	*								
11/26/85	*								

NOT REPRESENTATIVE
2500 2600 100

* - TTHMs FOUND WITHIN LIMITS



SYSTEM: TARAWA TERRACE

DATE	THMs	1,1,1-TRICHLORO-ETHANE	TETRACHLORO-ETHYLENE	BENZENE	DATE	THMs	BENZENE
4/22/85	*	4.1	1.0		12/2/85	*	2.0
4/23/85	*	1.4			12/10/85	*	
7/1/85	*				12/18/85	*	1.0
7/8/85	*				12/23/85	*	
7/15/85	*				12/30/85	*	
7/23/85	*						
7/31/85	*						
8/13/85	*						
8/19/85	*						
8/27/85	*						
9/3/85	*						
9/10/85	*			4.0			
9/16/85	*						
9/23/85	*						
10/1/85	*						
10/9/85	*						
10/15/85	*						
10/21/85	*						
10/29/85	*						
11/4/85	*						
11/12/85	*						
11/12/85 TT-25 WELL							
11/19/85	*						
11/26/85	*						

* THM₀ FOUND WITHIN LIMITS

