# FILE FOLDER

# **DESCRIPTION ON TAB:**

Problem: Gas Chamber's
Well
Outside/inside of actual folder did not contain hand written information
Outside/inside of actual folder did contain hand written information
*Scanned as next image

Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08



DATE: 21 November 1983

FROM: Supervisory Chemist, Water Quality Control Lab, Environmental Branch

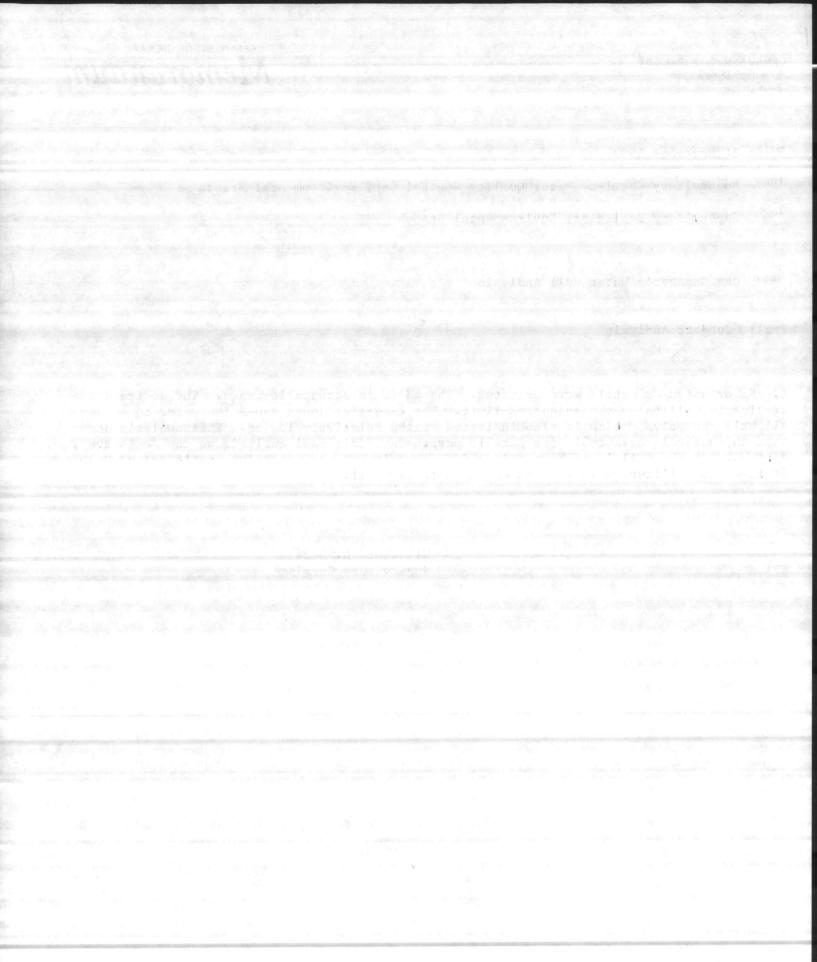
TO: Supervisory Ecologist, Environmental Branch

SUBJ: Gas Chamber's Water Well Analysis

Encl: Subject Analysis

1. No organics or metals were detected. The pH is in acceptable range. The sodium concentration Waswell below the auggsted limit. The Langelier Index shows the water to be very slightly corrosive, which is also indicated by the relatively low pH. Thusanalysis shows that the water is acceptable for potable purpose@ne additional analysis we can do is the iron contant. If the well is to be considered a community source, then iron can't exceed 0.30 ppm. If it does, a filter would have to be added to the well.

Elizabeth A. Betz Supervisory Chemist



# GRAINGER LABORATORIES

INCORPORATED

### **ANALYTICAL AND CONSULTING CHEMISTS**

(919) 828-3360

709 West Johnson Street

Raleigh, North Carolina 27603

### ANALYTICAL LABORATORY

Environment Analysis Construction Materials Identification of Unknowns

October 24, 1983 83-09-021

Agriculture

Textiles Chemicals Hazardous Waste Quality Control Lab, NREAD

Facilities, MCB

Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 9/20/83

Sample Identification: Purchase Order M93107-3215-2109

1. Well Water

### **RESULTS**

Endrin, mg/l	<0.00007
Lindane, mg/l	<0.00002
Methoxychlor, mg/l	<0.0004
Toxaphene, mg/l	<0.0005
2, 4-D, mg/l	<0.008
2, 4, 5-TP (Silvex), mg/l	<0.002
Arsenic, total as As, mg/l	<0.025
Barium, total as Ba, mg/l	<0.025
Cadmium, total as Cd, mg/l	<0.001
Chromium, total as Cr, mg/l	<0.001
Mercury, total as Hg, mg/l	<0.002
Selenium, total as Se, mg/l	<0.025
Silver, total as Ag, mg/l	<0.004
Lead, total as Pb, mg/l	<0.004
pH	7.2
Sodium, total as Na, mg/l	8.0
Calcium, total as Ca, mg/l	177
Total Dissolved Solids, mg/l	240
Alkalinity, as CaCO <sub>3</sub> , mg/l	178
Langelier Index	-0.1

w. Paul Brafford
W. Paul Brafford
General Laboratory Manager

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WPB/at Customer #92400 CONSULTATION

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

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(919) 828-3360

709 West Johnson Street

Raleigh, North Carolina 27603

#### ANALYTICAL LABORATORY

**Environment Analysis** Construction Materials Identification of Unknowns Agriculture

October 24, 1983 83-09-021

Fuels

Textiles Chemicals Hazardous Waste Quality Control Lab, NREAD Facilities, MCB Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 9/20/83

Sample Identification: Purchase Order M93107-3215-2109 1. Well Water

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2, 4, 5-TP (Silvex), mg/l	<0.002
Arsenic, total as As, mg/l	<0.025
Barium, total as Ba, mg/l	<0.025
Cadmium, total as Cd, mg/l	<0.001
Chromium, total as Cr, mg/l	<0.001
Mercury, total as Hg, mg/l	<0.002
Selenium, total as Se, mg/l	<0.025
Silver, total as Ag, mg/l	<0.004
Lead, total as Pb, mg/l	<0.004
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Total Dissolved Solids, mg/l	240
Alkalinity, as CaCO <sub>3</sub> , mg/l	178
Langelier Index	-0.1

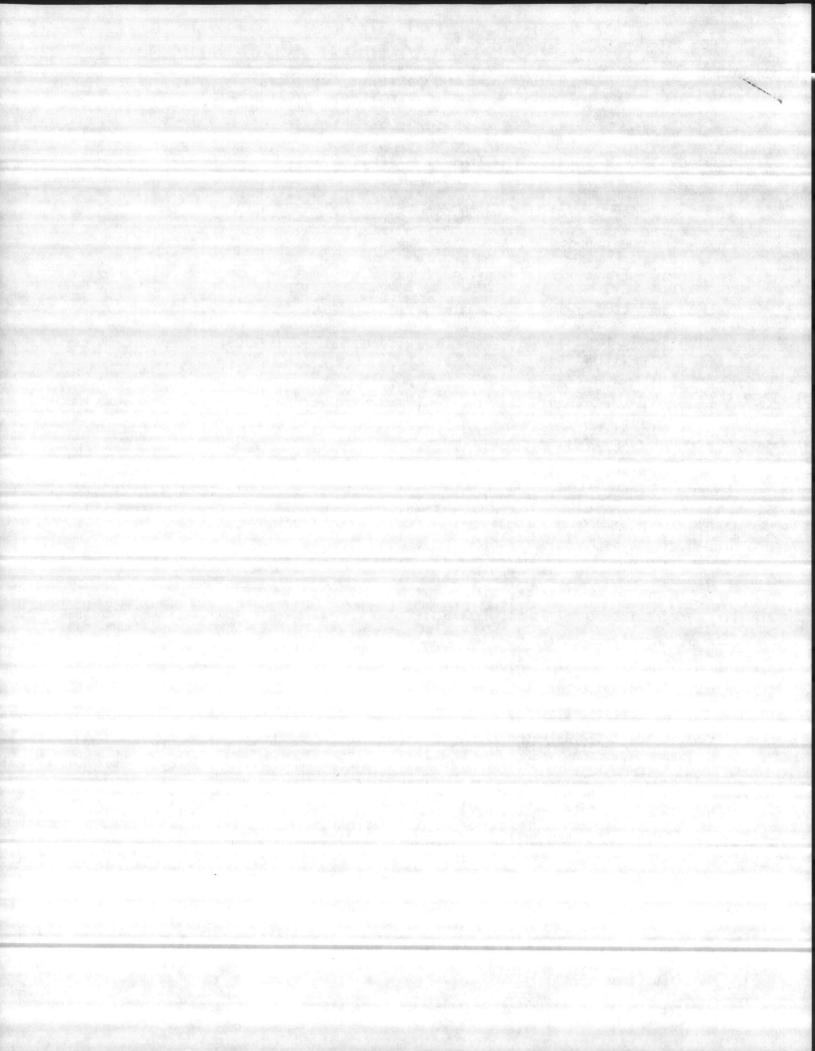
W. Paul Brafford

General Laboratory Manager



WPB/at Customer #92400 CONSULTATION

Metallurgical Services **Pollution Abatement** Process Development Quality Control Methods Development Special Investigation Pesticides RCRA



DATE: 21 November 1983

FROM: Supervisory Chemist, Water Quality Control Lab, Environmental Branch

TO: Supervisory Ecologist, Environmental Branch

SUBJ: Gas Chamber's Water Well Analysis

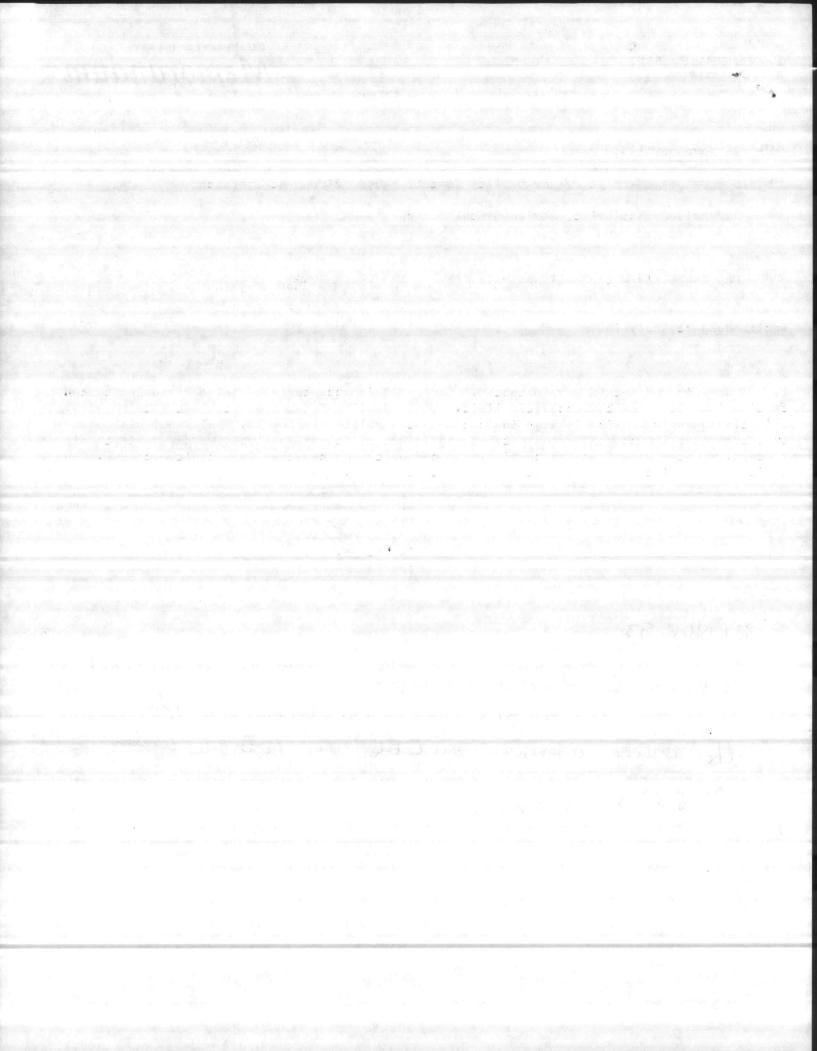
Encl: Subject Analysis

1. No organics or metals were detected. The pH is in acceptable range. The sodium concentration is well below the suggested limit. The Langelier Index shows the water to be very slightly corrosive, which is also indicated by the relatively low pH. This analysis shows that the water is acceptable for potable uses. One additional analysis we can do is the iron content. If the well is to be considered a community source, then iron can't exceed 0.30 ppm. If it does, a filter would have to be added to the well.

Elizabeth A. Betz Supervisory Chemist

21 NOU 83,

Betsy, Go ahead and run the non tests. Unless that shows over 0.30 ppm, we will recommend that the source appears suitable for potable water Dupply. Donny



## GRAINGER LABORATORIES

INCORPORATED

#### **ANALYTICAL AND CONSULTING CHEMISTS**

· (919) 828-3360

709 West Johnson Street

Raleigh, North Carolina 27603

#### ANALYTICAL LABORATORY

Environment Analysis Construction Materials Identification of Unknowns Agriculture

October 24, 1983 83-09-021

Fuels
Textiles
Chemicals
Hazardous Waste

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

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 9/20/83

Sample Identification: Purchase Order M93107-3215-2109

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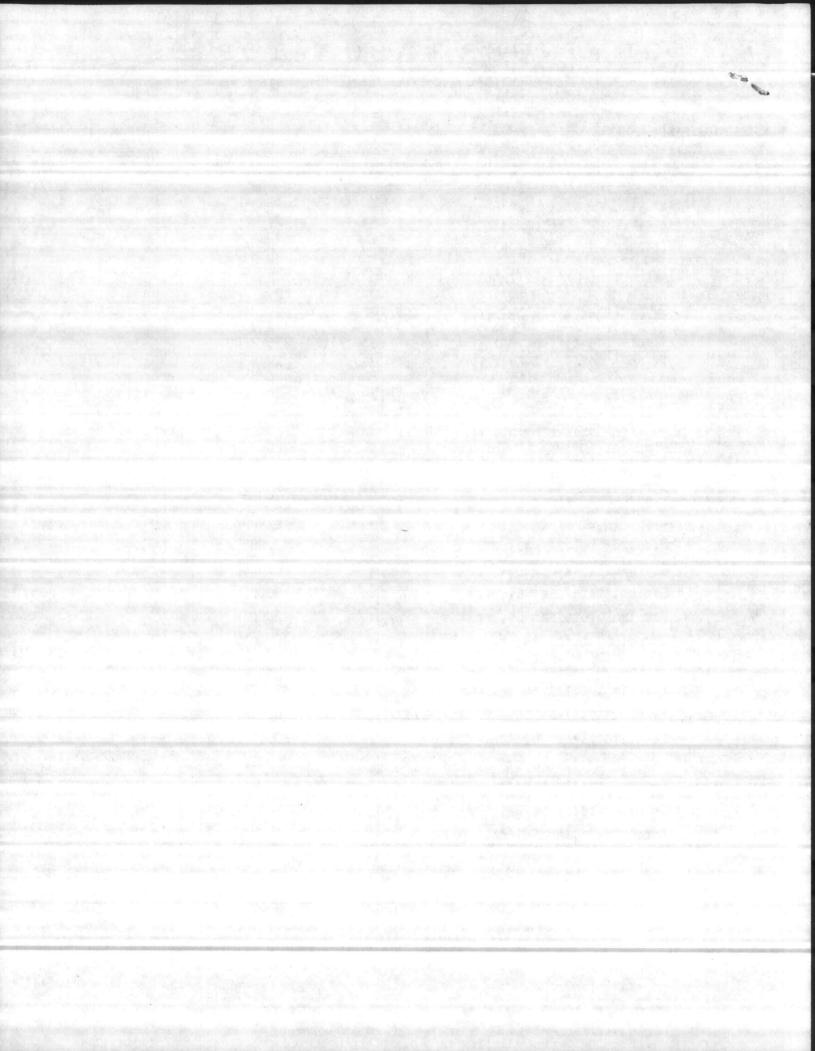
W. Paul Brafford
General Laborator

General Laboratory Manager



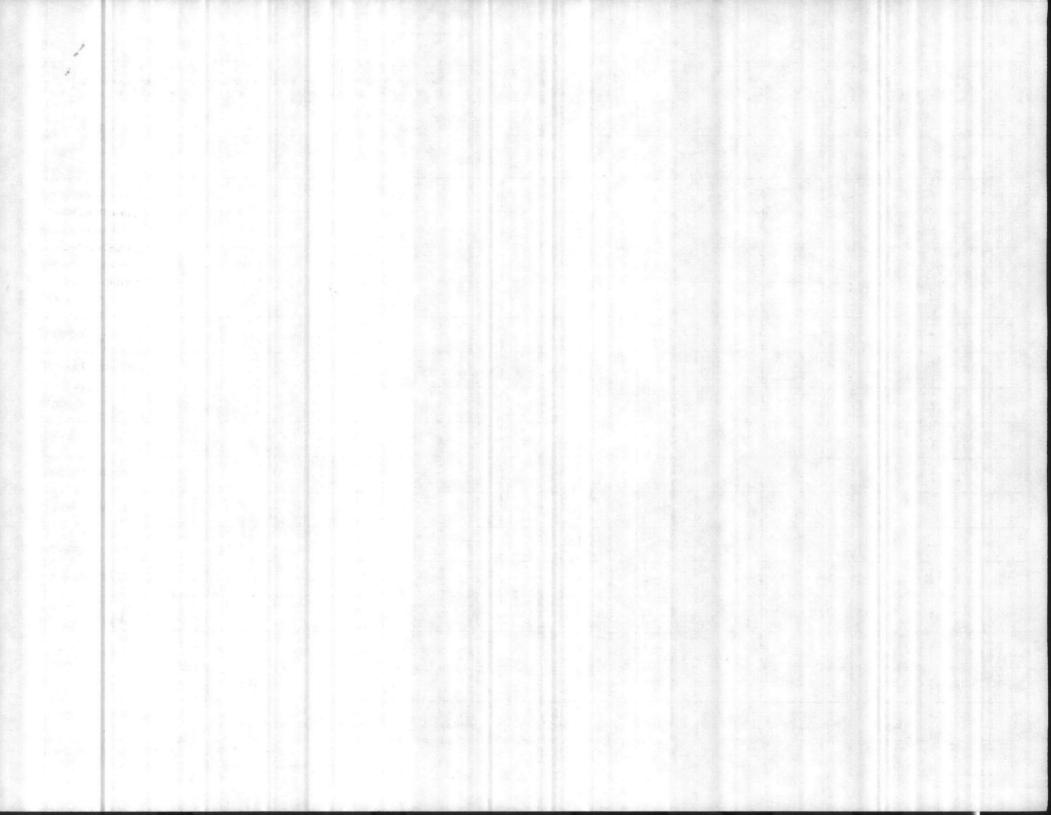
WPB/at Customer #92400 CONSULTATION

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



DATE COLLECTED CHEMICAL ANALYSIS - WATER TREATMENT PLANTS 6 DEC 1983 MCBCL 11330/3 (REV. 3-82) BLDG 934 HADNOT MONTFORD POINT COURTHOUSE RIFLE RANGE TARAWA ONSLOW HOLCOMB NEW TERRACE BEACH BAY BLVD RIVER PARAMETER PH PENOLTHALEIN ALKALINITY METHYL ORANGE ALKALINITY CARBONATES AS CaCO3 BICARBONATES AS CaCO3 **CHLORIDES AS C1** HARDNESS AS CaCO3 **IRON AS Fe** FLUORIDE **CHLORINE RESIDUAL** TURBIDITY TOTAL PHOSPHATE **ORTHO PHOSPHATE** META PHOSPHATE STABILITY REMARKS

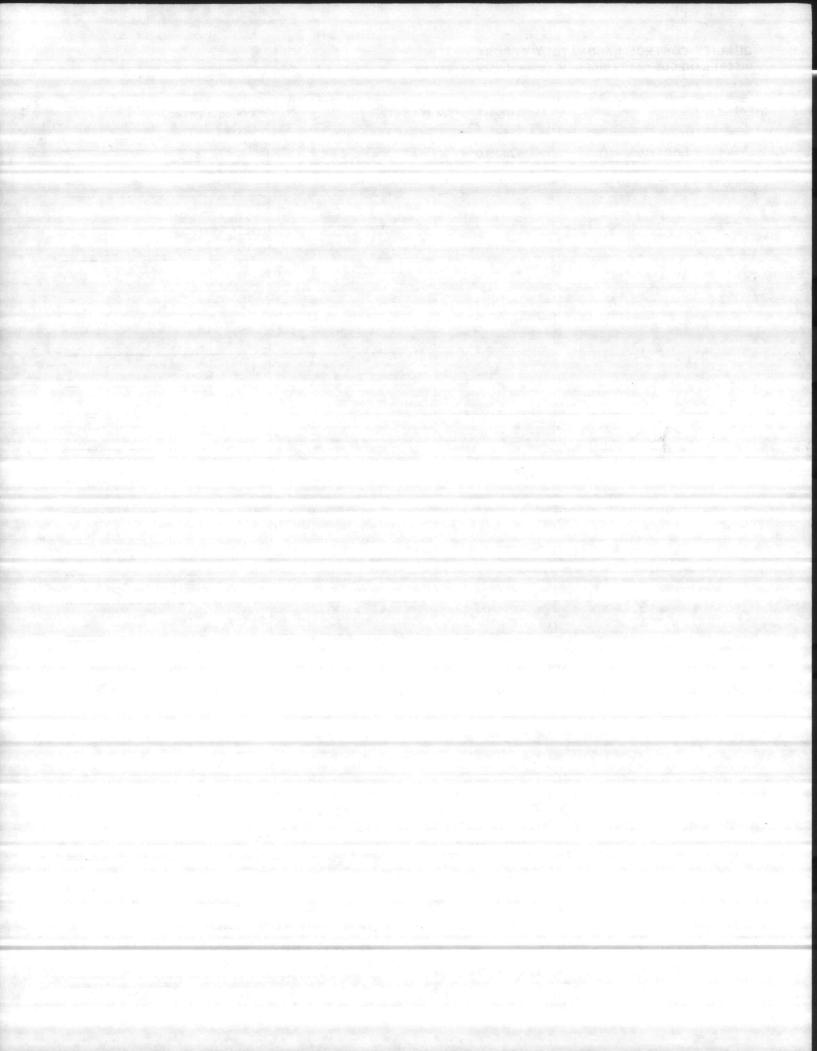
NOTE:	All results reported in parts per million unless otherwise noted except for pH, temperature,	LABORATORY ANALYSIS BY		DATE OF ANALYSIS
	and specific conductance. One liter of potable water is assumed to weigh one kilogram.	MANAURY & BANGAGE		6 DEC 1983
-	A SECURITION OF THE PROPERTY O	THUNKHAN - ISORIOS	EUS ,	4 Dec 1100



# QUALITY CONTROL LABORATORY REPORT MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11889/8 (REV. 4/78)

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### NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

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From: Director

subj:
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Julian

alvised Joe fact that a reguseter > P+C would be required Hel odvised to check with mye Starin on a cost estimate Danythere Belon a response Prepare te This

#### DEPARTMENT OF THE NAVY SELF-DUPLICATING NOTE

Use only for an informal, preferably hand-written note. Make duplicate only when required for follow-up or working file. See correspondence manual for formal, official memoranda.

NREA

ACTION	COORDINATE	PREPARE FOR SIGNATURE
AS DISCUSSED	CORRECTION	REPORT BACK
CALL/SEE ME	INFORMATION	RETURN
COMMENT/CLEAR	PREPARE DRAFT	
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# **CARBON PAPERS**

# THIS DOCUMENT CONTAINS CARBON PAPERS

Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 10/08

# WORK REQUEST (MAINTENANCE MANAGEMENT) NAVFAC 9-11014/20 REV. 2-68) S/N 0105-LF-002-7510 Supersedes NAVDOCKS 2351

(PW Department see Instructions in NAVFAC MO-321)

		PART I—REQUEST (Filled ou	t by Requestor)		
Training Fac	ilities Off	Ficer	2 10 10 10	2. REQUEST N	
	TITCLES OII	ricer		7-83	
Assistant Ch	ief of Stat	ff, Facilities		4. DATE OF R	EQUEST Y 83
REQUEST FOR	zer or bear	er, racrificies	The second profession	50. REQUEST	
COST ESTI	MATE	PERFORMANCE OF WORK		ASAP	
FOR FURTHER INFORMATION CALL					AN ATTACHED
GySgt HILL EX				YES	ΜNO
Block Training theat during	zed units w ng Program training in Decontamina	ange is utilized which are require Semi-annually, report the Chemical Protection Station, it	ed to undergo require use of rotective Suit ris imperativ	a four of water.	day NBC  Due to
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#### INSTRUCTIONS

#### IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I. checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III, checking proper-block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to the requestor.

## IF ESTIMATE IS <u>NOT</u> DESIRED BEFORE WORK IS STARTED AND FUNDS ARE NOT UNDER COGNIZANCE OF PWO

Requestor fills in all items in Parts I and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 7, checks proper block in item 19, and attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15, 16, and 17 of Part II completed.

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PART IV-REMARKS

LtCol A. R. BRUNELLI Jr.

Justification: This Tange is utilized by MCB, 2d Marbiv and 2d FSSC, Bettalion sized naits which are required to undergo a four day NBC a Block Training Program Semi-annually, require use of water. Duetto Lost Curing Install, in the Chemical Protective Suits and the use of a personnel Decontamination Station, it is imperative that the Base CS Chamber have water from a safety view.

It is requested that a Chemical Test be done on the Water at Pullding 934, Base Cas Chamber. A Diological Test has been completed, and a high concentration of iron has been found. Wr. D. SHARF, ext 5003, will not certify the water fit to drink until a chemical test for herbicides and other chemicals has been completed.

Cysgt HILL Lxt 3518/1928

700

Assistant Chief of Staff, Facilities

Training Facilities Officer

TVSVI

Z 1.87 63

7-03

# WORK REQUEST (MAINTENANCE MANAGEMENT) NAVFAC 9-11014/20 REV. 2-68) S/N 0105-LF-002-7510 Supersedes NAVDOCKS 2351

(PW Department see Instructions in NAVFAC MO-321)

Requestor see Instructions on Reverse Side

			the state of the s
Training Fac	ilities (	Officer	2. REQUEST NO. 7-83
POTE AND DESCRIPTION OF THE PROPERTY OF THE PR	Lef of St	taff, Facilities	4. DATE OF REQUEST  2 May 83
REQUEST FOR COST ESTI	MATE	PERFORMANCE OF WORK	Sa. REQUEST WORK START  ASAP
FOR FURTHER INFORMATION CALL			7. SKETCH/PLAN ATTACHED
GySgt HILL Ex	kt 3518/1	1928  Ig location, type, size, quantity, etc.)	☐ YES NO
will not cere herbicides an  Justification Battalion siz Block Trainin heat during to a personnel I	tify the od other  This sed units of Prograting Progrations	Range is utilized by MCB, 2 which are required to under most semi-annually, require usin the Chemical Protective in a safety view.	c. D. SHARP, ext 5003, chemical test for ed.  2d MarDiv and 2d FSSG. ergo a four day NBC se of water. Duetto
FUNDS CHARGEABLE		10 SIGNATURE (Re	questing Officials  R. BRUNELLI Jr.
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Requestor fills in all items in Parts 1 and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 17, and attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15, 16, and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

## IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE UNDER COGNIZANCE OF PWO

Requestor fills in all items in Part I, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to the Public Works Department.

. If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15 as applicable, 16 and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

#### PART IV-REMARKS

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(See Part IV on Reverse Side)

#### INSTRUCTIONS

#### IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I. checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III, checking proper block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to the requestor.

## IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE NOT UNDER COGNIZANCE OF PWO

Requestor fills in all items in Parts I and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 7, checks proper block in item 19, and attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

CLOUR

CONC. FISH !

TO THE REPORT OF

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15, 16, and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

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PART IV-REMARKS

DWATER ON GAS CHAMBER DU WE CAN-THIS DATA DOES NOT PROVIDE ADOUGAATE DATA THAT TO MAKE DETERMINE THAT THIS IS SAFE TO



OPNAV 5216/144A (Rev. 8-81) S/N 0107-LF-052-2320

To Dany ,-To Belon.

Memorandum

DATE: 18 Feb 83

Env Engr

Reen all tests we roundly sun on dunting

SUBJ: Well-Water Quality @ Bldg 934, Gas Chamber

Refa) mtg btwn Maj Rowland & MSGT Stewart, Base Training and me, 14 Fet 83

1. Per ret meeting, well-natur is not now considered potable and has been suspected as being contaminated. Please sample the well for coliforn bacteria (2 replicates) and for hardness, iron, and total dissolved solids.

2. when we get the results of lab analyses, recommendations on the use of water can be made.

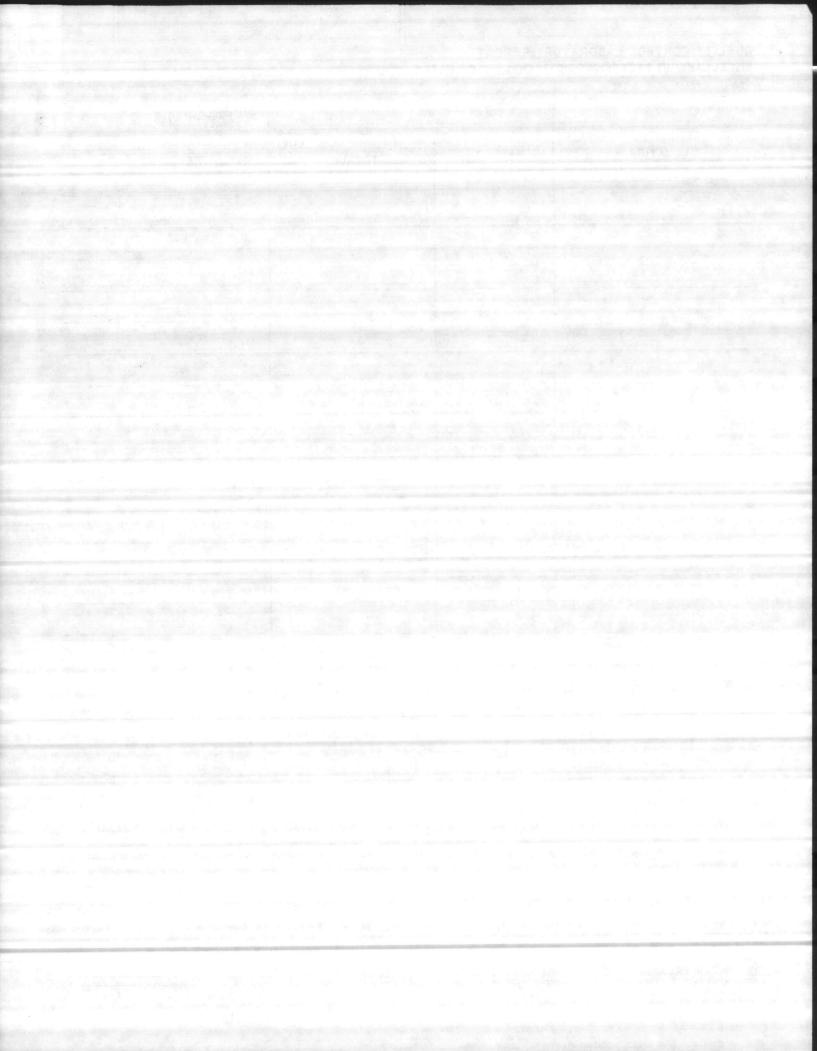
> Thanks, Alip

willed water water quality o Bld 93.4, "and chambery" Refair mtg btun Maj Rouland & Miser Store the contract of the second of The same and a start of the same of the sa

# QUALITY CONTROL LABORATORY REPORT MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11880/8 (DEV. 4/78)

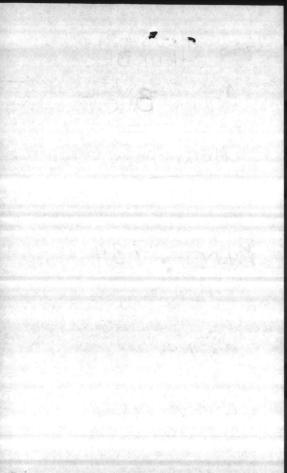
ATER TYPE	SAMPLE COLLECTED B	SAMPLE COLLECTED BY		
LOCATION	MARKED		COLIFORM	
		TOTAL	FECAL	
BLDG 934		0		
			Marie Salar Sa	
	No.			
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EMARKS _				
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UTILITIES DIRECTOR		MCAS PREV	ENTIVE MEDICINE	
WATER TREATMENT DI A				



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BLDG . 934

3518 Gy Hill



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

DATE COLLECTED 24 Feb 1983

		Charles de la Constitución de la						67 6	0 1781
PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	6.8								
PENOLTHALEIN ALKALINITY	0								
METHYL ORANGE ALKALINITY	170								
CARBONATES AS CaCO <sub>3</sub>	0								
BICARBONATES AS CaCO 3	170								
CHLORIDES AS C1	10								
HARDNESS AS CaCO <sub>3</sub>	188								
IRON AS Fe	0.48								
FLUORIDE	0.39								
CHLORINE RESIDUAL									
TURBIDITY	0.36								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY	-0.5								

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

LABORATORY ANALYSIS BY	111
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CHEMICAL ANALYSIS — WATER TREATMENT PLANTS MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 24 Feb 83

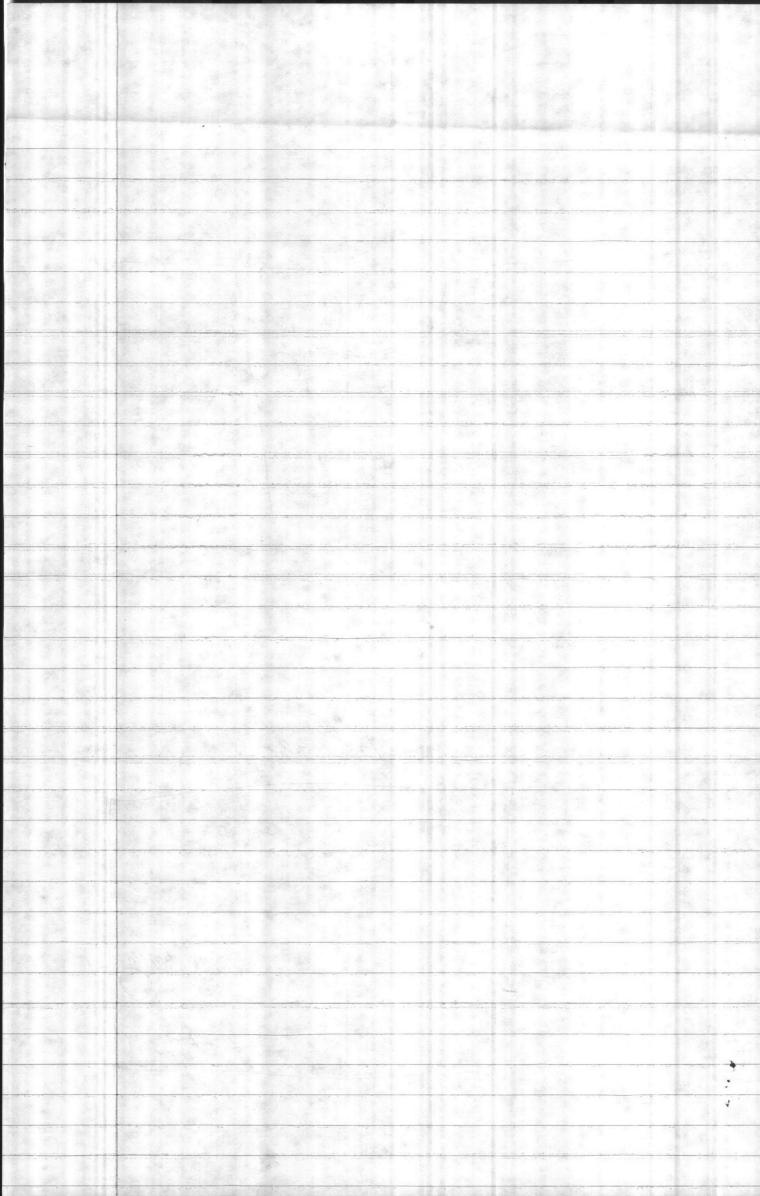
		The second second						4716	70/
PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	7.3 6.8								
PENOLTHALEIN ALKALINITY	0								
METHYL ORANGE ALKALINITY	170								
CARBONATES AS CaCO <sub>3</sub>	0						A TOP IS		
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HARDNESS AS CaCO <sub>3</sub>	188								
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TURBIDITY	0.36								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY	-0.5								
REMARKS									

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

LABORATORY ANALYSIS BY	/
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Markey 1	10



O Hat tank Well + purp office gence Bldg 934 Hot water smells like rotten e 995. Chamben



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

DATE COLLECTED 24 Feb 1983

								77'6	0 1782
PARAMETER	HADNOT BUG 734	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	6.8								
PENOLTHALEIN ALKALINITY	0	<b>产。其外</b> 。							
METHYL ORANGE ALKALINITY	170								
CARBONATES AS CaCO3	0								
BICARBONATES AS CaCO 3	170								
CHLORIDES AS C1	10								
HARDNESS AS CaCO <sub>3</sub>	188								
IRON AS Fe	0.48								
FLUORIDE	0.39				i				
CHLORINE RESIDUAL							A A		
TURBIDITY	0.36								
TOTAL PHOSPHATE			150						
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY	-0.5								

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

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