

ROUTING - REQUEST

FROM (Show telephone number in addition to address)

LAMP IV CODE 1142

SUBJECT

VOA

TO:

MCB CAMP LARSEN
 BASE MAINTENANCE
 ENVIRONMENTAL AFFAIRS

Please

- READ
- HANDLE
- APPROVE
- and
- FORWARD
- RETURN
- KEEP OR DISCARD
- REVIEW WITH ME

To _____

Bmain

Date 8 May 85

From AC/S FAC, Env Engr

VIA:

ENDORSEMENT ON _____

- FORWARDED RETURNED FOLLOW-UP, OR TRACER REQUEST SUBMIT CERTIFY MAIL FILE

GENERAL ADMINISTRATION	CONTRACT ADMINISTRATION	PERSONNEL
<input checked="" type="checkbox"/> FOR APPROPRIATE ACTION UNDER YOUR COGNIZANCE	NAME & LOCATION OF SUPPLIER OF SUBJECT ITEMS	REPORTED TO THIS COMMAND:
INFORMATION	SUBCONTRACT NO. OF SUBJECT ITEM	
APPROVAL RECOMMENDED <input type="checkbox"/> YES <input type="checkbox"/> NO	APPROPRIATION SYMBOL, SUBHEAD, AND CHARGEABLE ACTIVITY	DETACHED FROM THIS COMMAND
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	SHIPPING AT GOVERNMENT EXPENSE <input type="checkbox"/> YES <input type="checkbox"/> NO	OTHER
COMMENT AND/OR CONCURRENCE	A CERTIFICATE, VICE BILL OF LADING	
CONCUR	COPIES OF CHANGE ORDERS, AMENDMENT OR MODIFICATION	
LOANED. RETURN BY:	CHANGE NOTICE TO SUPPLIER	
SIGN RECEIPT & RETURN	STATUS OF MATERIAL ON PURCHASE DOCUMENT	
REPLY TO THE ABOVE BY:		

REFERENCE NOT RECEIVED
SUBJECT DOCUMENT FORWARDED TO:
SUBJECT DOCUMENT RETURNED FOR:
SUBJECT DOCUMENT HAS BEEN REQUESTED, AND WILL BE FORWARDED WHEN RECEIVED
COPY OF THIS CORRESPONDENCE WITH YOUR REPLY
ENCLOSURE NOT RECEIVED
ENCLOSURE FORWARDED AS REQUESTED
ENCLOSURE RETURNED FOR CORRECTION AS INDICATED
CORRECTED ENCLOSURE AS REQUESTED
REMOVE FROM DISTRIBUTION LIST
REDUCE DISTRIBUTION AMOUNT TO:

REMARKS (Continue on reverse)

Copies to NREAU
 BMAIN
 PMV

CLW
 0000004787

SIGNATURE & TITLE

[Handwritten Signature]

COPY TO:

114, 1142, 1143

CLASSIFICATION UNCLASSIFIED when detached from enclosures, unless otherwise indicated

REPORT # 65
LABORATORY ANALYSIS ON
NAVAL SAMPLES
(A/E CONTRACT N62470-84-B-6932)
JTC REPORT # 85-167

PREPARED FOR:
DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA 23511

PREPARED BY:
JTC ENVIRONMENTAL CONSULTANTS, INC.
4 RESEARCH PLACE, SUITE L-10
ROCKVILLE, MARYLAND 20850

APRIL 26, 1985

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

CLW

0000004788

JTC Environmental Consultants, Inc.

Date 4-26-85 Report No. 65 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-167 Table 2 Date of Sample Receipt 4/23/85

NAVY SAMPLE ID		JTC SAMPLE ID	ANALYSIS PARAMETER									
HP 20 Treated 4/22/85 12:00		12-0817	VOA									
LCH 4006 4/22/85 11:35		12-0818	broken in transit see attached sheet									
RR-227 4/22/85 12:35		12-0819	"									
												CLW 000004790



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

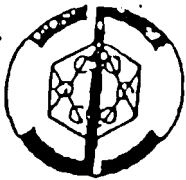
VOLATILE FRACTION

JTC SAMPLE # 12-0818 PROJECT NO. NF-12
NAVY SAMPLE # LCH 4006 4/22/85 DATE RECEIVED 4/23/85
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
<u>2V acrolein</u>	<u>N.D.</u>	<u>32V 1,2-dichloropropane</u>	<u>N.D.</u>
<u>3V acrylonitrile</u>	<u>N.D.</u>	<u>33V 1,3-dichloro- pylene</u>	<u>N.D.</u>
<u>4V benzene</u>	<u>N.D.</u>	<u>38V ethylbenzene</u>	<u>N.D.</u>
<u>6V carbon tetrachloride</u>	<u>N.D.</u>	<u>44V methylene chloride</u>	<u>N.D.</u>
<u>7V chlorobenzene</u>	<u>N.D.</u>	<u>45V methyl chloride</u>	<u>N.D.</u>
<u>10V 1,2-dichloroethane</u>	<u>N.D.</u>	<u>46V methyl bromide</u>	<u>N.D.</u>
<u>11V 1,1,1-trichloro- ethane</u>	<u>N.D.</u>	<u>47V bromoform</u>	<u>N.D.</u>
<u>13V 1,1-dichloroethane</u>	<u>N.D.</u>	<u>48V dichlorobromo- methane</u>	<u>N.D.</u>
<u>14V 1,1,2-trichloro- ethane</u>	<u>N.D.</u>	<u>49V trichlorofluoro- methane</u>	<u>N.D.</u>
<u>15V 1,1,2,2-tetra- chloroethane</u>	<u>N.D.</u>	<u>50V dichlorodifluoro- methane</u>	<u>N.D.</u>
<u>16V chloroethane</u>	<u>N.D.</u>	<u>51V chlorodibromomethane</u>	<u>N.D.</u>
<u>19V 2-chloroethylvinyl ether</u>	<u>N.D.</u>	<u>85V tetrachloroethylene</u>	<u>N.D.</u>
<u>23V chloroform</u>	<u>N.D.</u>	<u>86V toluene</u>	<u>N.D.</u>
<u>29V 1,1-dichloroethylene</u>	<u>N.D.</u>	<u>87V trichloroethylene</u>	<u>N.D.</u>
<u>30V 1,2-trans-dichloro- ethylene</u>	<u>N.D.</u>	<u>88V vinyl chloride</u>	<u>N.D.</u>

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

CLW
0000004791



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0819 PROJECT NO. NF-12
NAVY SAMPLE # RR-227 4/22/85 DATE RECEIVED 4/23/85
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloropro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	3.2 * N.D.	47V bromoform	N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	N.D.
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

CLW

0000004792

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

* Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0820 PROJECT NO. NF-12
NAVY SAMPLE # TT Treated 4/22/85 DATE RECEIVED 4/23/85
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	4.1* N.D.	47V bromoform	6.2* N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	5.7* N.D.
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	10 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	1.0* N.D.
23V chloroform	2.2* N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

CLW

0000004793

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

* Below method detection limit

REPORT # 66
LABORATORY ANALYSIS ON
NAVAL SAMPLES
(A/E CONTRACT N62470-84-B-6932)
JTC REPORT # 85-168

PREPARED FOR:
DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA 23511

PREPARED BY:
JTC ENVIRONMENTAL CONSULTANTS, INC.
4 RESEARCH PLACE, SUITE L-10
ROCKVILLE, MARYLAND 20850

APRIL 26, 1985

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

CLW

0000004794



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0821 PROJECT NO. NF-12
NAVY SAMPLE # Tarawa Terrace 4/23/85 DATE RECEIVED 4/25/85
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloropro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	1.4* N.D.	47V bromoform	6.3* N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	4.2* N.D.
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	8.6* N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	2.0* N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

0000004796

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

* Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0822 PROJECT NO. NF-12
 NAVY SAMPLE # HP Treated Bldg 20 4/24/85 DATE RECEIVED 4/25/85
 METHOD NO. 624 DETECTION LIMIT 10 ug/lit

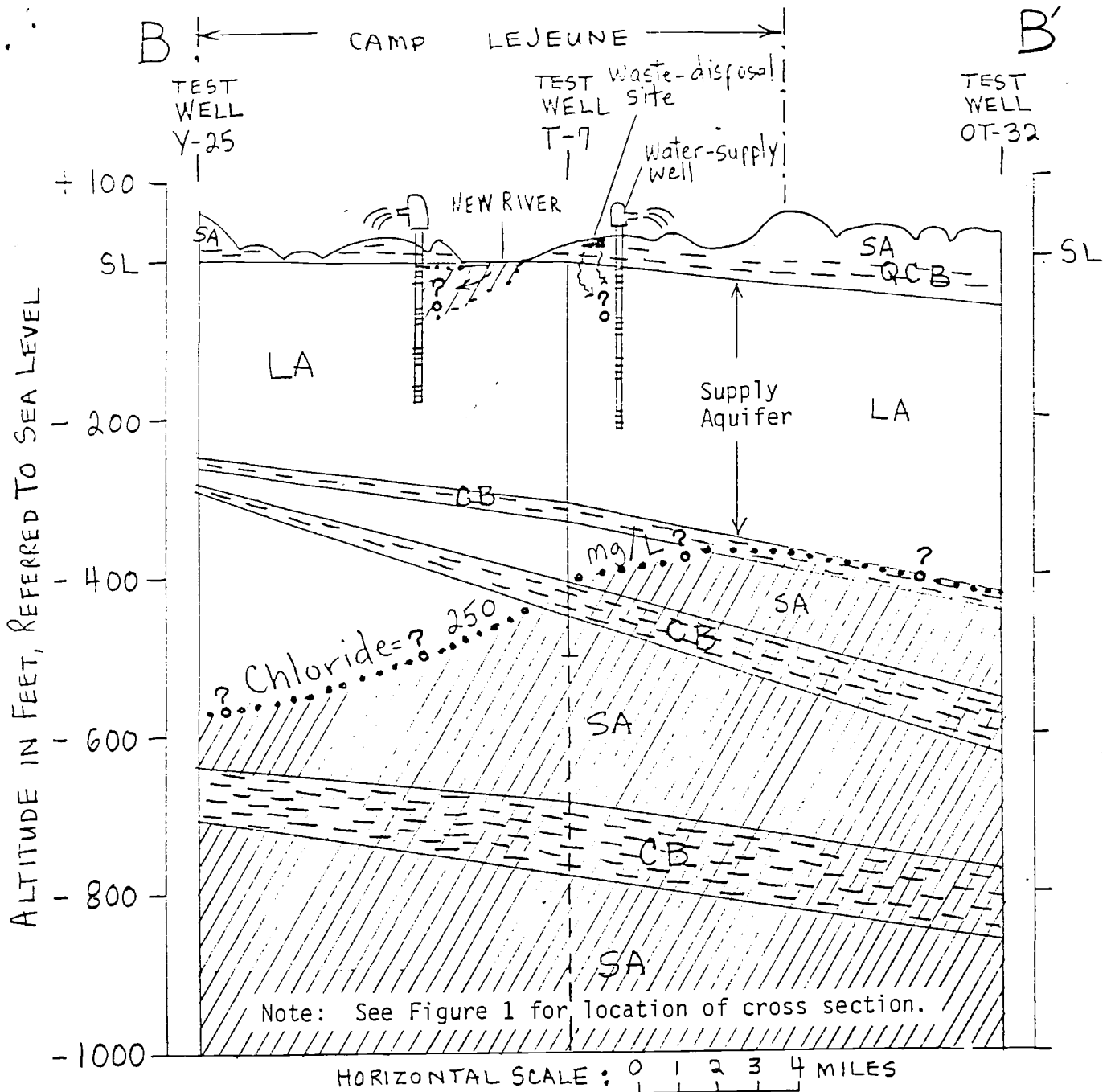
PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	2.1* N.D.	47V bromoform	N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	10 N.D.
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	6.3* N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	13 N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

CLW

0000004797

N.D. = NOT DETECTED
 N.A. = NOT APPLICABLE/ANALYZED

* Below method detection limit



EXPLANATION

CB - Confining Bed
 QCB - Questionable Confining Bed
 LA - Limestone Aquifer


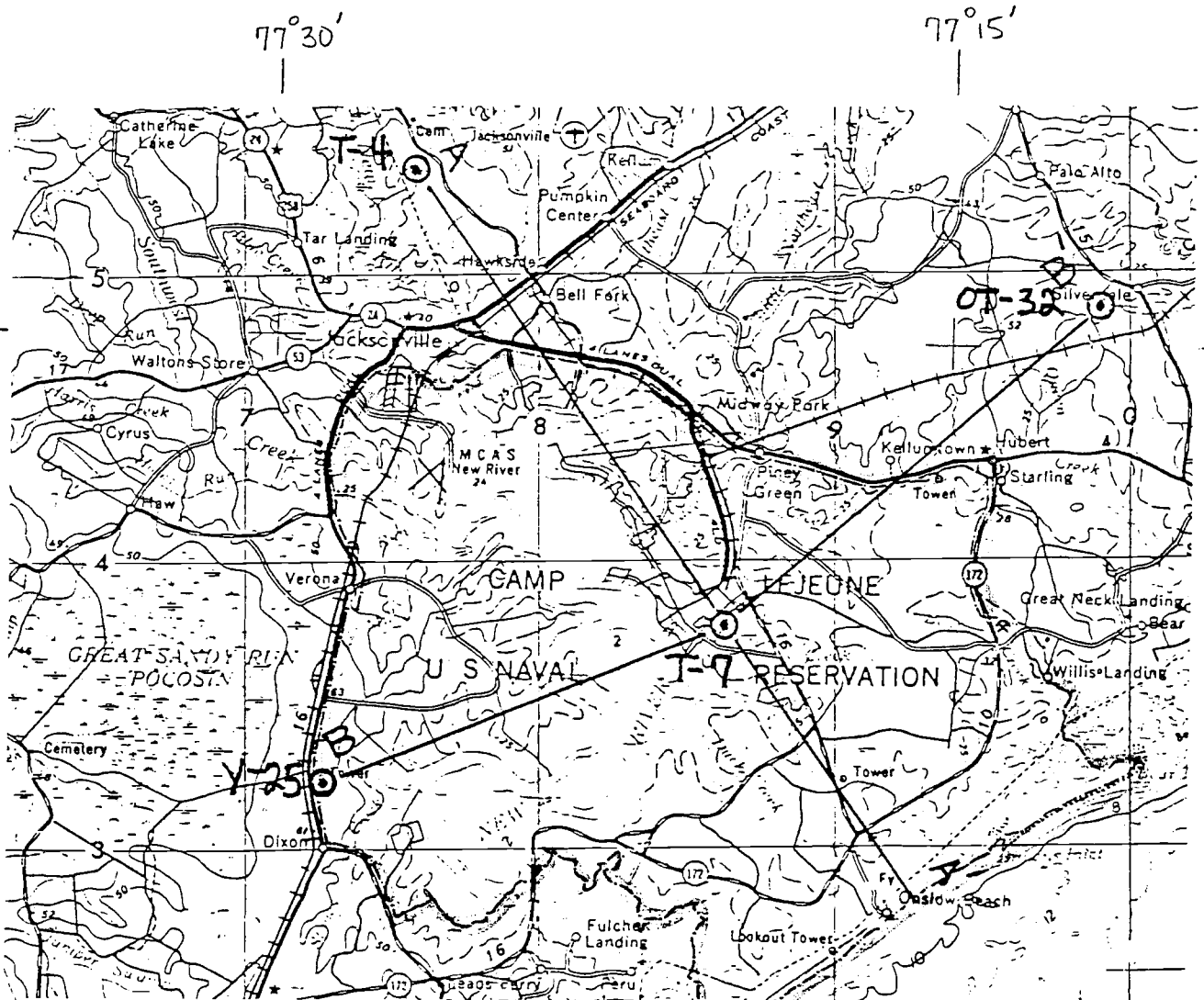
SA - Sand Aquifer
 SL - Sea Level
 mg/L - milligrams per liter
 - Rock containing water with more than 250 mg/L Chloride

Figure 3.--Diagrammatic geologic and hydrologic cross section B-B', through Camp Lejeune Marine Corps Base, North Carolina.

CLW

0000004798



EXPLANATION

T-7 Well and well number

A — A' line of cross section shown in Figures 1 and 2.

0 1 2 3 4 5 MILES

0 1 2 3 4 5 KILOMETERS

Figure 1.--Location of Camp Lejeune Marine Corps Base, North Carolina.

CLW

0000004799

0087000000

MTO

08 MAY 1985

ROUTING SLIP

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	jm
ADMIN			
F&A			
MAINT NCO			
M&R			
OPNS			
PROP			
UMACS			
UTIL		✓	65J
SECRETARY			

COMMENTS: