

**ROUTINE REPLY, ENDORSEMENT, TRANSMITTAL OR INFORMATION SHEET**

OPNAV 5216/158 (Rev. 7-78)  
SN 0107-LF-052-1891

A WINDOW ENVELOPE MAY BE USED  
Formerly NAVEXOS 3789

CLASSIFICATION (UNCLASSIFIED when detached from enclosures, unless otherwise indicated)

FROM (Show telephone number in addition to address)

LANDIV CODE 1142 A1U564-9561

SUBJECT

THM (VOA)

TO:

MCB CAMP LEJEUNE  
BASE MAINTENANCE  
ENVIRONMENTAL AFFAIRS DIVISION

DATE

31 MAY 85

SERIAL OR FILE NO.

6280 1142DPG

REFERENCE

ENCLOSURE

(1) JTC REPORT # 71

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		NAME & LOCATION OF SUPPLIER OF SUBJECT ITEMS		REPORTED TO THIS COMMAND:	
UNDER YOUR COGNIZANCE		SUBCONTRACT NO. OF SUBJECT ITEM			
INFORMATION		APPROPRIATION SYMBOL, SUBHEAD, AND CHARGEABLE ACTIVITY		DETACHED FROM THIS COMMAND	
APPROVAL RECOMMENDED		SHIPPING AT GOVERNMENT EXPENSE			
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		OTHER	
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		A CERTIFICATE, VICE BILL OF LADING			
COMMENT AND/OR CONCURRENCE		COPIES OF CHANGE ORDERS, AMENDMENT OR MODIFICATION			
CONCUR		CHANGE NOTICE TO SUPPLIER			
LOANED, RETURN BY:		STATUS OF MATERIAL ON PURCHASE DOCUMENT			
SIGN RECEIPT & RETURN		REMARKS (Continue on reverse)			
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:					
		SIGNATURE & TITLE			
		<i>David Bonner</i>		1142	

CLW  
0000005156

COPY TO:

114, 1142, 1143

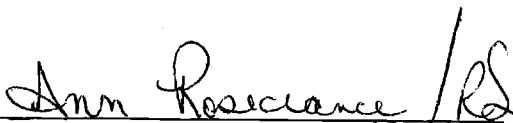
CLASSIFICATION (UNCLASSIFIED when detached from enclosures, unless otherwise indicated)

REPORT # 71  
LABORATORY ANALYSIS ON  
NAVAL SAMPLES  
(A/E CONTRACT N62470-84-B-6932)  
JTC REPORT # 85-208

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

MAY 28, 1985

  
Ann E. Rosecrance  
Laboratory Director

CLW  
0000005157

CLW

000005158

JTC Environmental Consultants, Inc.

Date 5-29-85 Report No. 71 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-208 Table 1 Date of Sample Receipt 5-17-85

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		Tribalomethanes						
483 Bldg AS-110 water plant & pump	12-0869 A	see attached Sheet						
	B	"						
484 Bldg G-520 Career Planner 2d flr. Mens Rm.	12-0870 A	"						
	B	"						
485 Bldg AS-4025 Barracks Rec Rm. Sink	12-0871 A	"						
	B	"						
486 Bldg 710 Officers Club Galley	12-0872 A	"						
	B	"						
487 Bldg 2800 Boat Marina Mens Rm.	12-0873 A	"						
	B	"						

with/without sulfate crystals added

CLW

0000005159



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

## VOLATILE FRACTION

JTC SAMPLE # 12-0869 A PROJECT NO. NF-12  
 NAVY SAMPLE # 483 W DATE RECEIVED 5/17/85  
 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	N.D.	47V bromoform	22 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	8.2* 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	21 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	4.6* 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.

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

\* Below method detection limit

CLW

0000005160



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

## VOLATILE FRACTION

JTC SAMPLE # 12-0869 B PROJECT NO. NF-12  
 NAVY SAMPLE # 483 W/O DATE RECEIVED 5/17/85  
 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	5.8 * <del>N.D.</del>	47V bromoform	48 <del>N.D.</del>
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	37 <del>N.D.</del>
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	65 <del>N.D.</del>
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	14 <del>N.D.</del>	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.

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 # 12-0870 A PROJECT NO. NF-12  
 NAVY SAMPLE # 484 W DATE RECEIVED 5/17/85  
 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	6.6* N.D.	47V bromoform	52 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	17 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	42 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	6.5* 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.

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 # 12-0870B PROJECT NO. NF-12  
 NAVY SAMPLE # 484 W/O DATE RECEIVED 5/17/85  
 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	N.D.	47V bromoform	67 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	33 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	69 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	12 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.

N.D. = NOT DETECTED

N.A. = NOT APPLICABLE/ANALYZED



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

## VOLATILE FRACTION

JTC SAMPLE # 12-0871A PROJECT NO. NF-12  
 NAVY SAMPLE # 485 W DATE RECEIVED 5/12/85  
 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	4.2* N.D.	47V bromoform	47 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	15 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	37 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	5.8 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.

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 # 12-0871B PROJECT NO. NF-12  
 NAVY SAMPLE # 485 W/O DATE RECEIVED 5/17/85  
 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	4.7* N.D.	47V bromoform	63 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	32 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	62 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	11 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.

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

\* Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

CLW

0000005165

VOLATILE FRACTION

JTC SAMPLE # 12-0872 A PROJECT NO. NF-12  
 NAVY SAMPLE # 486 W DATE RECEIVED 5/17/85  
 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	3.8* N.D.	47V bromoform	44 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	15 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	39 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	6.2* 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.

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

\* Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

CLW

0000005166

VOLATILE FRACTION

JTC SAMPLE # 12-0872 B PROJECT NO. NF-12  
NAVY SAMPLE # 486 W/O DATE RECEIVED 5/17/85  
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	N.D.	47V bromoform	56 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	35 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	64 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.

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

CLW

0000005167



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

## VOLATILE FRACTION

JTC SAMPLE # 12-0873A PROJECT NO. NF-12  
 NAVY SAMPLE # 487 W DATE RECEIVED 5/17/85  
 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	8.8 * N.D.	47V bromoform	67 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	32 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	64 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	10 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.

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 # 12-0873 B PROJECT NO. NF-12  
 NAVY SAMPLE # 487 W/O DATE RECEIVED 5/17/85  
 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	4.4* N.D.	47V bromoform	69 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	37 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	72 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	15 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.

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

\* Below method detection limit