

REPORT # 10
LABORATORY ANALYSIS ON
NAVAL SAMPLES
(A/E Contract N6270-84-B-6932
JTC REPORT # 84-130

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

PREPARED BY:
JTC ENVIRONMENTAL CONSULTANTS, INC.
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ROCKVILLE, MARYLAND 20850
DECEMBER 20, 1984

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Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Date 12/20/84 Report No. 10 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 84-130 Table 1 Date of Sample Receipt 12-18-84

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER					
		VOA					
12/14/84 HP WP Raw	12-0232	see attached sheet					
12/15/84 HP Water Plant Raw	12-0233	"					
12/16/84 Hadnot WP Raw	12-0234	"					
12/17/84 Hadnot Pt. Water Treat. Plant Raw	12-0235	"					
		CLW 000005659					

Navy sample HPWP Raw 12/14/84 received 12/18/84

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JTC ENVIRONMENTAL CONSULTANTS, INC. 0000005660
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

LAB SAMPLE LOG NO. VOASPL 305 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0232 HPWP Raw 12/14/84
METHOD NO. 624 DETECTION LIMIT 20 ug/lit
ANALYSIS DATE 12/18/84

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	N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	6.1* 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.

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

* below method detection limit

Navy sample HP Water Plant Raw 12/1, 84 received 12/18/84



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PRIORITY POLLUTANT ANALYSIS DATA SHEET

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VOLATILE FRACTION

LAB SAMPLE LOG NO. VOASPL 306 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0233 HP Water Plant Raw 12/15/84
METHOD NO. 624 DETECTION LIMIT 10 ug/lit
ANALYSIS DATE 12/18/84

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>5.5*</u> N.D.
<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>10 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

* below method detection limit

Navy sample Hadnot WP Raw 12/16/84 received 12/18/84



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PRIORITY POLLUTANT ANALYSIS DATA SHEET **0000005662**

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VOLATILE FRACTION

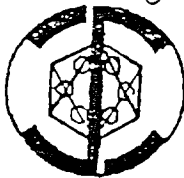
LAB SAMPLE LOG NO. VOASPL 307 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0234 Hadnot WP Raw 12/16/84
METHOD NO. 624 DETECTION LIMIT 10 ug/lit
ANALYSIS DATE 12/18/84

PARAMETER	RESULT	PARAMETER	RESULT
	ug/lit		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	N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	4.0* 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	4.3* 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

Navy sample Hadnot Pt. Water Treat. Pla Raw 12/17/84 received 12/18



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

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VOLATILE FRACTION

LAB SAMPLE LOG NO. VOASPL 308 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0235 Hadnot Pt. Water Treat. Plant Raw 12/17
METHOD NO. 624 DETECTION LIMIT 10 ug/lit
ANALYSIS DATE 12/18/84

PARAMETER	RESULT	PARAMETER	RESULT
	ug/lit		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	N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	2.5* 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	3.1* 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