

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA, 23471 • PHONE (804) 425-1198

VA DEPT. CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

Official Reference Chemists for
AMERICAN OIL CHEMISTS SOCIETY

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS

ASBESTOS ANALYSIS - NIOSH 532

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF WELL FOR WATER PLANT

MARKED MCB CAMP LEJEUNE RR-45 taken 4/10/81 @ 1230 hours

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: E. A. Betz

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (µg/l)
Acrolein	None Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	None Detected	10.0
Toluene	None Detected	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

0000003689

Laboratory
Analysis No. 150

Respectfully submitted,
JENNINGS LABORATORIES, INC.

W. D. Jennings, Jr.
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 871 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF WELL FOR WATER PLANT

MARKED MCB CAMP LEJEUNE RR-45

OFFICIAL SAMPLE BY: _____

PURGEABLE ORGANICS (CONTINUED)

DETECTION LIMITS (µg/l)

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	None Detected	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	4.0 ppb	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None Detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	None Detected	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None Detected	.006
bis(chloromethyl) ether	None Detected	.003

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 150

W. H. Jennings
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1196

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for
AMERICAN OIL CHEMISTS SOCIETY

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF WELL FOR WATER PLANT

MARKED MCB CAMP LEJEUNE RR-47 taken 4/10/81 @ 1220 Hours

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: E. A. Betz

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (ug/l)
Acrolein	NONE Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	None Detected	10.0
Toluene	None Detected	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None Detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 151

W. H. Jennings, Jr.
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1700

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

Official Referee Chemists for
AMERICAN OIL CHEMISTS SOCIETY

Laboratory Certified by V.C. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS

ASBESTOS ANALYSIS - NIOSH 582

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

CERTIFIED OFFICIAL U.S. D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF WELL FOR WATER PLANT

MARKED MCB CAMP LEJEUNE RR-47 taken 4/10/81 @ 1220 Hours

OFFICIAL SAMPLE BY: _____

PURGEABLE ORGANICS (CONTINUED)

DETECTION LIMITS (µg/l)

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	None Detected	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	None Detected	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None Detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	None Detected	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None Detected	.006
bis(chloromethyl) ether	None Detected	.003

CLW

0000003692

Laboratory Analysis No. 151

Respectfully submitted,
JENNINGS LABORATORIES, INC.

W. H. Jennings, Jr.

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

Official Referee Chemists for
AMERICAN OIL CHEMISTS SOCIETY

Laboratory Certified by VA STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

ASBESTOS ANALYSIS - MOSH 582

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF WELL FOR WATER PLANT

MARKED MCB CAMP LEJEUNE RR-97 taken 4/10/81 @ 1235 Hours

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: E.A. Betz

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (ug/l)
Acrolein	None Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	None Detected	10.0
Toluene	None Detected	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None Detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.03

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 153

W. H. Jennings
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1113 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

EPA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluent for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE April 16, 1981

SAMPLE OF WELL FOR WATER PLANT

MARKED RR-97

OFFICIAL SAMPLE BY:

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	16.6 ppb	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
1,1,1-Trichloroethylene Chloride	5.8 ppb	.010
1,1,2-Trichloroethylene Chloride	None Detected	.009
1,1,2-Trichloroethylene Bromide	None detected	.03
1,1,1-Trichloroethane	None Detected	.02
1,1,1-Trichlorobromomethane	None Detected	.006
1,1,1-Trichlorofluoromethane	None Detected	.03
1,1,1-Trichlorodifluoromethane	None Detected	.01
1,1,1-Trichlorodibromomethane	None Detected	.01
1,1,2-Trichloroethylene	None Detected	.007
1,1,1-Trichloroethylene	1.8 ppb	.005
1,1,1-Trichloroethylene Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None Detected	.006
1,2-Dichloroethyl ether (chloromethyl) ether	None Detected	.003

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 153

W. A. Jennings

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

ASBESTOS ANALYSIS - NIOSH 582

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF RIFLE RANGE WATER TREATMENT PLANT AT SINK OF TREATED WATER

MARKED MCB CAMP LEJEUNE RR-85 taken 4/10/81 @ 1245 Hours

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: _____

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (µg/l)
Acrolein	None Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	None Detected	10.0
Toluene	None Detected	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None Detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 152

W. H. Jennings
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

8 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

ACCREDITED LABORATORY for
Water Analysis - Microbiological,
Inorganic and Organic

USE ANALYSIS - NIOSH 582

Official Reference Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

By: Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF RIFLE RANGE WATER TREATMENT PLANT AT SINK OF TREATED WATER

MARKED RR-85

OFFICIAL SAMPLE BY:

PURGEABLE ORGANICS (CONTINUED)

DETECTION LIMITS (µg/l)

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	17.0 ppb	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	3.0 ppb	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None detected	.02
Dichlorobromomethane	None detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	None Detected	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None detected	.006
bis(chloromethyl) ether	None Detected	.003

Respectfully submitted,

JENNINGS LABORATORIES, INC.

CLW

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Laboratory
Analysis No. 152

W. H. Jennings
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
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Official Reference Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

ASBESTOS ANALYSIS - NIOSH 592

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF POOL OF WATER WITH OLD BARREL IN IT AT OLD CHEMICAL DUMP

MARKED MCB CAMP LEJEUNE SAMPLE #5 taken 4/10/81 @ 1420 Hours

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: D. Sharpe

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (µg/l)
Acrolein	None Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	1.0 ppb	10.0
Toluene	101.0 ppb	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	176.0 ppb	.006
1,1,1-Trichloroethane	103.0 ppb	.005
1,1-Dichloroethane	101.0 ppb	.004
1,1-Dichloroethylene	258.0 ppb	.006
1,1,2-Trichloroethane	252.0 ppb	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No 158

W. H. Jennings, Jr.
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1198

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Reference Chemists for:
AMERICAN OIL CHEMISTS SOCIETY

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory certified by VA STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF POOL OF WATER WITH OLD BARREL IN IT AT OLD CHEMICAL DUMP

SAMPLE #5

MARKED

OFFICIAL SAMPLE BY:

PURGEABLE ORGANICS (CONTINUED)

DETECTION LIMITS (µg/l)

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	34.6 ppb	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	37.0 ppb	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None Detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	141.0 ppb	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None detected	.006
bis(chloromethyl) ether	None detected	.003

Respectfully Submitted,

JENNINGS LABORATORIES, INC.

CLW

0000003698

Laboratory
Analysis No. 158

W. H. Jennings
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
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Inorganic and Organic

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

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CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

ASBESTOS ANALYSIS - NIOSH 582

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF STREAM BED BELOW & BEHIND OLD CHEMICAL DUMP ABOUT 100 yds SSE of Test
Well #17
MARKED MCB CAMP LEJEUNE SAMPLE #6 taken 4/10/81 @ 1435 hours
Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: _____

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (µg/l)
Acrolein	None Detected	2.0
Acrylonitrile	None detected	2.0
Benzene	None Detected	10.0
Toluene	None detected	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None Detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 159

W. H. Jennings, Jr.

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF STREAM-BED BELOW & BEHIND OLD CHEMICAL DUMP ABOUT 100 yds SSE of Test

MARKED SAMPLE #6

Well #17

OFFICIAL SAMPLE BY:

PURGEABLE ORGANICS (CONTINUED)

DETECTION LIMITS (µg/l)

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	None Detected	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	14.0 ppb	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None detected	.03
Bromoform	None detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	5.8 ppb	.007
Trichloroethylene	None Detected	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None Detected	.006
bis(chloromethyl) ether	None Detected	.003

CLW

0000003700

Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 159


CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
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Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF TIDAL MARSH @ End of Road past old chemical dump

MARKED MCB CAMP LEJEUNE SAMPLE #7 taken 4/10/81 @ 1510 hours

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: Mr. Jerry Wallmeyer

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (µg/l)
Acrolein	None Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	None Detected	10.0
Toluene	None detected	10.0
Ethylbenzene	None Detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None Detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

000003701

Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 160


CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS

ASBESTOS ANALYSIS - NIOSH 582

NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF TIDAL MARSH @ END OF ROAD PAST OLD CHEMICAL DUMP

MARKED SAMPLE #7

OFFICIAL SAMPLE BY:

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	None Detected	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	None Detected	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None Detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	None Detected	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None Detected	.006
bis(chloromethyl) ether	None Detected	.003

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory 160
Analysis No. _____

W. H. Jennings
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF NEW RIVER, BETWEEN MOUTH OF STREAM & EVERETT CREEK RIGHT FORK OF ROAD THRU
TLZ OWL TO RIVER
MARKED MCB CAMP LEJEUNE SAMPLE #8 taken 4/10/81 @ 1530

Samples delivered to laboratory 4/13/81 AM by Mr. Wallmeyer

OFFICIAL SAMPLE BY: _____

PRIORITY POLLUTANTS	PURGEABLE ORGANICS	DETECTION LIMITS (µg/l)
Acrolein	None Detected	2.0
Acrylonitrile	None Detected	2.0
Benzene	None Detected	10.0
Toluene	None Detected	10.0
Ethylbenzene	None detected	10.0
Carbon Tetrachloride	None Detected	.007
Chlorobenzene	None Detected	.03
1,2-Dichloroethane	None Detected	.006
1,1,1-Trichloroethane	None Detected	.005
1,1-Dichloroethane	None Detected	.004
1,1-Dichloroethylene	None Detected	.006
1,1,2-Trichloroethane	None Detected	.006
1,1,2,2-Tetrachloroethane	None Detected	.006
Chloroethane	None Detected	.01
2-Chloroethyl vinyl ether	None Detected	.08

CLW

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Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 161

W. H. Jennings, Jr.
CHEMIST

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1198

VA (EPA) CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: April 16, 1981

SAMPLE OF NEW RIVER, BETWEEN MOUTH OF STREAM & EVERETT CREEK RIGHT FORK OF ROAD
THRU TLZ OWL TO RIVER
MARKED Sample #8

OFFICIAL SAMPLE BY: _____

	PURGEABLE ORGANICS (CONTINUED)	DETECTION LIMITS (µg/l)
Chloroform	None Detected	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	None detected	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None Detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	.03
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	None Detected	.005
Vinyl Chloride	None Detected	.01
1,2-Trans-Dichloroethylene	None Detected	.006
bis(chloromethyl) ether	None Detected	.006

CLW

000003704

Respectfully submitted,

JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 161

W. H. Jennings, Jr.
ANALYST