CHECKED BOX APPLIES

[X] ORDER FOR SUPPLIES OR SERVICES

[ ] REQUEST FOR QUOTATIONS NO.

RETURN COPY(IES) OF THIS QUOTE BY

(THIS IS NOT AN ORDER. See DD Form 1155r)

5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO

1. CONTRACT/PURCH ORDER NO. M67001-84-M-5311

2. DELIVERY ORDER NO.

3. DATE OF ORDER 84 APR 25

4. REQUISITION/PURCH REQUEST NO. M93170-4081-1201

6. ISSUED BY: CODE M67001

CONTRACTING DIVISION
P. O. Box 8368, Marine Corps Base
Camp Lejeune, North Carolina 28542
84-M-5311

7. ADMINISTERED BY: *(If other than 6)* CODE

8. DELIVERY FOB
[X] DEST
[ ] OTHER
(See Schedule if other)

9. CONTRACTOR/QUOTER CODE FACILITY CODE

NAME AND ADDRESS
GUILFORD LABORATORIES INC.
PO BOX 9735
PLAZA STATION
GREENSBORO, NC 27408

5E/3U

10. DELIVER TO FOB POINT BY: 84 MAY 30

11 CHECK IF
[X] SMALL BUSINESS
[ ] MINORITY BUSINESS

12. DISCOUNT TERMS NET

13. MAIL INVOICES TO: (In Quadruplicate) SEE SCHEDULE

14. SHIP TO: CODE

SEE SCHEDULE

15. PAYMENT WILL BE MADE BY: CODE M67001

Base Disbursing Officer
MCB, Camp Lejeune, North Carolina 28542

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

16. TYPE OF ORDER

DELIVERY [ ] This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. C

PURCHASE [X] Reference your TELEQUOTE 84 APR 25, furnish the following on terms specified herein, including, for U.S. purchases, General Provision of Purchase Order on DD Form 1155r *(EXCEPT CLAUSE NO. 13 APPLIES ONLY IF THIS BOX [ ] IS CHECKED, AND NO. 15 IF THIS BOX [ ] IS CHECKED)*; special provisions ; and delivery as indicated. This purchase is negotiated under authority of 10 USC 2304 (a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a) (6).

[ ] *If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return* copies.

17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE

1	1741106.2720	000	67001	0	067001	2D	000000	423K8402392T	$1280.00
2	1741106.2720	000	67001	0	067001	2D	000000	423K8112392T	$1800.00

18. ITEM NO.	19. PRIORITY: 14 SCHEDULE OF SUPPLIES/SERVICES	20. QUANTITY ORDERED/* ACCEPTED	21. UNIT	22. UNIT PRICE	23. AMOUNT
	THIS IS A CONFIRMING ORDER.....Confirms telephonic order of same number and date given to your Debbie Massengill by our Mr. Durrett . **DO NOT DUPLICATE SHIPMENT.**				
	INQUIRIES REGARDING THIS ORDER SHOULD BE MADE TO: ORDER SERVICE UNIT /919-451-5095				
	SEE PAGE #2 (PLUS ANY ADDITIONAL PAGES), for listing of items.				

** If quantity accepted by the Government is same as quantity ordered, indicate by ✓ mark. If different, enter actual quantity accepted below quantity ordered and encircle.*

24. UNITED STATES OF AMERICA
BY: J. L. NIEDERMEYER PURCHASING OFFICER
CONTRACTING/ORDERING OFFICER

25. TOTAL $3080.00

29. DIFFERENCES

26. QUANTITY IN COLUMN 20 HAS BEEN:
[ ] INSPECTED [ ] RECEIVED [ ] ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

27. SHIP.NO.
[ ] PARTIAL
[ ] FINAL

28. D.O. VOUCHER NO.

30. INITIALS

32. PAID BY
67001-
SYM #.5190
MCB CLNC

33. AMOUNT VERIFIED CORRECT FOR

31. PAYMENT
[ ] COMPLETE
[ ] PARTIAL
[ ] FINAL

34. CHECK NUMBER

36. I certify this account is correct and proper for payment.

DATE T. R. DEDMOND Fiscal Acctg. Supv.
SIGNATURE AND TITLE OF CERTIFYING OFFICER

35. BILL OF LADING NO.

37. RECEIVED AT 38. RECEIVED BY 39. DATE RECEIVED 40. TOTAL CONTAINERS 41. S/R ACCOUNT NUMBER 42. S/R VOUCHER NO.

THIS PARAGRAPH APPLIES ONLY TO QUOTATIONS SUBMITTED:

Supplies are of domestic origin unless otherwise indicated by quoter. The Government reserves the right to consider quotations or modifications thereof received after the date indicated should such action be in the interest of the Government. This is a request for information and quotations furnished are not offers. When quoting, complete blocks 11, 12, 22, 23, 25. If you are unable to quote, please advise. This request does not commit the Government to pay any cost incurred in preparation or the submission of this quotation or to procure or contract for supplies or services.

GENERAL PROVISIONS

1. INSPECTION AND ACCEPTANCE – Inspection and acceptance will be at destination, unless otherwise provided. Until delivery and acceptance, and after any rejections, risk of loss will be on the Contractor unless loss results from negligence of the United States Government. Notwithstanding the requirements for any Government inspection and test contained in specifications applicable to this contract, except where specialized inspections or tests are specified for performance solely by the Government, the contractor shall perform or have performed the inspections and tests required to substantiate that the supplies and services provided under the contract conform to the drawings, specifications and contract requirements listed herein, including if applicable the technical requirements for the manufactures' part numbers specified herein.

2. VARIATION IN QUANTITY – No variation in the quantity of any item called for by this contract will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this contract.

3. PAYMENTS – Invoices shall be submitted in quadruplicate *(one copy shall be marked "Original")* unless otherwise specified, and shall contain the following information: Contract or order number, item number, contract description of supplies or services, sizes, quantities, unit prices and extended totals. Bill of lading number and weight of shipment will be shown for shipments on Government Bills of Lading. Unless otherwise specified, payment will be made on partial deliveries accepted by the Government when the amount due on such deliveries so warrants.

4. DISCOUNTS – In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when acceptance is at the point of origin, or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of these points, or from the date the correct invoice or voucher is received in the office specified by the Government, if the latter is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

5. DISPUTES – *(This contract is governed by the Contract Disputes Act of 1978 (Public Law 95-563) (the "Act"). The Act provides administrative procedures for the submittal, analysis, negotiation, and if necessary, litigation of claims relating to this contract. The parties to this contract must comply with certain time restrictions on rendering of contracting officer decisions on claims, and on the appeal of those decisions. Further details on the rights and remedies under the Act may be found in the DAR at 1-314.)*

6. FOREIGN SUPPLIES – This contract is subject to the Buy American Act *(41 U.S.C. 10a-d)* as implemented by Section VI of the DAR and any restrictions in appropriation acts on the procurement of foreign supplies. The quotation must identify any foreign items to be furnished.

7. CONVICT LABOR – In connection with the performance of work under this contract, the Contractor agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1965 *(18 U.S.C. 4082(c)(2))* and Executive Order 11755, December 29, 1973.

8. OFFICIALS NOT TO BENEFIT – No member of or Delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

9. COVENANT AGAINST CONTINGENT FEES – The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration or otherwise recover, the full amount of such commission, percentage, brokerage or contingent fee.

10. GRATUITIES – (a) The Government may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this contract if it is found after notice and hearing, by the Secretary or his duly authorized representative, that gratuities *(in the form of entertainment, gifts or otherwise)* were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the Government with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such contract, provided, that the existence of the facts upon which the Secretary or his duly authorized representative make such findings shall be in issue and may be reviewed in any competent court. (b) In the event this contract is terminated as provided in paragraph (a) hereof the Government shall be entitled (i) to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the contract by the Contractor and (ii) as a penalty in addition to any other damages to which it may be entitled by law to exemplary damages in an amount *(as determined by the Secretary or his duly authorized representative)* which shall be not less than three nor more than ten times the costs incurred by the Contractor in providing any such gratuities to any such officer or employee. (c) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

11. CONDITION FOR ASSIGNMENT – This Purchase Order may not be assigned pursuant to the Assignment of Claims Act of 1940, as amended *(31 U.S.C. 203, 41 U.S.C. 15)*, unless or until the supplier has been requested and has accepted this order by executing the Acceptance hereon.

12. COMMERCIAL WARRANTY – The Contractor agrees that the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties the Contractor gives to any customer for such supplies or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the Government by any other clause of this contract.

13. PRIORITIES, ALLOCATIONS, AND ALLOTMENTS –The Contractor shall follow the provisions of DMS Reg. 1, or DPS Reg. 1 and all other applicable regulations and orders of the Bureau of Domestic Commerce in obtaining controlled materials and other products and materials needed to fill this order.

14. FAST PAYMENT PROCEDURE–

(a) General. This is a fast payment order. Invoices will be paid on the basis of the Contractor's delivery to a post office, common carrier, or, in shipment by other means, to the point of first receipt by the Government.

(b) Responsibility for Supplies. Title to the supplies shall vest in the Government upon delivery to a post office or common carrier for shipment to the specified destination. If shipment is by means other than post office or common carrier, title to the supplies shall vest in the Government upon delivery to the point of first receipt by the Government. Notwithstanding any other provision of the purchase order, the Contractor shall assume all responsibility and risk of loss for supplies (i) not received at destination, (ii) damaged in transit, or (iii) not conforming to purchase requirements. The Contractor shall either replace, repair, or correct such supplies promptly at his expense, provided instructions to do so are furnished by the Contracting Officer within ninety (90) days from the date title to the supplies vests in the Government. (180 days for oversea shipment.)

(c) Preparation of Invoice.

(1) Upon delivery of supplies to a post office, common carrier, or in shipments by other means, the point of first receipt by the Government, the Contractor shall prepare an invoice in accordance with Clause 3 of the General Provisions of Purchase Order, except that invoices under a blanket purchase agreement shall be prepared in accordance with the provisions of the agreement. All invoices shall also be prominently marked "Fast Pay."

(2) If the purchase price excludes the cost of transportation, the Contractor shall enter the prepaid shipping cost on the invoice as a separate item. The cost of parcel post insurance will not be paid by the Government. If transportation charges are separately stated on the invoice, the Contractor agrees to retain related paid freight bills or other transportation billings paid separately for a period of three (3) years and to furnish such bills to the Government when requested for audit purposes.

(3) In the event this order requires the preparation of a Material Inspection and Receiving Report (DD Form 250), the Contractor has the option of either preparing the DD Form 250 or including the following information on the invoice, in addition to that required in (c)(1) above: (A) a statement in prominent letters "NO DD 250 PREPARED", (B) shipment number, (C) mode of shipment: and (D) at line item level, (i) National Stock Number and or manufacturer's part number, (ii) unit of measure, (iii) Ship-To-Point, (iv) Mark-For-Point if in contract, and (v) MILSTRIP document number if in contract. When a DD Form 250 is not required, the invoice will include the following information. (i) Ship-To-Point, (ii) Mark-For-Point and MILSTRIP document number if in contract, as well as the information in (c)(i) above. In all cases where no DD Form 250 is prepared, a copy of the invoice will be included in each shipment.

(d) Certification of Invoice. The Contractor agrees that the submission of an invoice to the Government for payment is a certification that the supplies for which the Government is being billed have been shipped or delivered in accordance with shipping instructions issued by the ordering officer, in the quantities shown on the invoice, and that such supplies are in the quantity and of the quality designated by the cited purchase order.

OUTER SHIPPING CONTAINERS SHALL BE MARKED "FAST PAY"

15. *(This clause applies if this contract is for services and is not exempted by applicable regulations of the Department of Labor.)*

SERVICE CONTRACT ACT OF 1965 – Except to the extent that an exemption, variation or tolerance would apply pursuant to 29 CFR 4.6 if this were a contract in excess of $2,500, the Contractor and any subcontractor hereunder shall pay all of his employees engaged in performing work on the contract not less than the minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended *(current minimum wage)*. However, in cases where section 6 (e)(2) of the Fair Labor Standards Act of 1938 is applicable, the rates specified therein will apply. All regulations and interpretations of the Service Contract Act of 1965 expressed in 29 CFR Part 4 are hereby incorporated by reference in this contract.

ADDITIONAL GENERAL PROVISIONS

16. CHANGES– The Contracting Officer may at any time, by a written order, and without notice to the sureties, make changes, within the general scope of this contract, in (i) drawings, designs, or specifications, where the supplies to be furnished are to be specially manufactured for the Government in accordance therewith; (ii) method of shipment or packing and (iii) place of delivery. If any such change causes an increase or decrease in the cost of, or the time required for performance of this contract, whether changed or not changed by any such order, an equitable adjustment shall be made by written modification of this contract. Any claim by the Contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the Contractor of the notification of change provided that the Contracting Officer, if he decides that the facts justify such action, may receive and act upon any such claim if asserted prior to final payment, under this contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this contract entitled "Disputes." However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

17. TERMINATION FOR DEFAULT – The Contracting Officer, by written notice, may terminate this contract, in whole or in part, for failure of the Contractor to perform any of the provisions hereof. In such event, the Contractor shall be liable for damages, including the excess cost of reprocuring similar supplies or services; provided that, if (i) it is determined for any reason that the Contractor was not in default or (ii) the Contractor's failure to perform is without his and his subcontractor's control, fault or negligence, the termination shall be deemed to be a termination for convenience under paragraph 18. As used in this provision the term "subcontractor" and "subcontractors" means subcontractors at any tier.

18. TERMINATION FOR CONVENIENCE – The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Section VIII of the Defense Acquisition Regulation in effect on this contract's date. To the extent that this contract is for services and is so terminated, the Government shall be liable only for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

19. ASSIGNMENT OF CLAIMS – Claims for monies due or to become due under this contract shall be assigned only pursuant to the Assignment of Claims Act of 1940, as amended *(31 U.S.C. 203, 41 U.S.C. 15)*. However, payments to an assignee of monies under this contract shall not, to the extent provided in said Act, as amended, be subject to reduction or set-off *(See Clause 11)*.

ACCEPTANCE

THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

NAME OF OFFEROR OR CONTRACTOR
GUILFORD LABORATORIES, INC.

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	M93170-4081-1201 SERVICES: ANALYSIS OF LANDFILL MONITORING WELLS SAMPLES TO INCLUDE THE FOLLOWING PARAMETERS,ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, MERCURY, SELENIUM, SILVER NITRATE, FLUORIDE, CHLORIDE, COPPER, COLOR, IRON, MAGANESE, SULFATE PH, TOTAL DISOLVED SOLIDS, ZINC, CONDUCTIVITY AND TOTAL ORGANIC HALOGEN AND TOTAL ORGANIC CARBON. EACH OF THE FOUR (4) WELLS WILL HAVE ONE SAMPLE.	4	JB	320.00	1280.00
0002	M93170-4081-1202 SERVICE: USED OIL ANALYSIS FOR FULL RCRA PLUS IGNITABILITY, CORROSIVITY, BTU % SEDIMENT VISCOSITY, API GRAVITY @60 DEGREES F, CORROSIVE INDEX-COPPER STRIP,% SULFUR E.P. TOXICITY METALS. ORGANICS WILL CONSIST OF TRICHLOROETHYLENE, 1-1 DICHLOROETHANE, TOLUENE, TOTAL PHENOL, AND % OF WATER. SAMPLE WILL BE TAKEN FROM 4 DEPTHS OF EACH OF 4 TANKS FOR A TOTAL OF 16 SAMPLES BUT WILL BE TESTED AS 4 COMPOSITES. TWENTY SAMPLE BOTTLES FROM THE CONTRACTOR WILL BE NEEDED. TURN AROUND TIME WILL BE TWO (2) WEEKS AFTER RECEIPT OF SAME. BOTTLES RESULTS OF TESTING AND INVOICES WILL BE MAILED TO: NREAD BLDG 1103, MCB CAMP LEJEUNE, NC 28542 CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE: THE SUPPLY OFFICER, NREAD, IS HEREBY DESIGNATED AS THE CONTRACTING OFFICER'S REPRESENTATIVE TO CERTIFY THAT THE INVOICED PRICE OF THIS ORDER IS "FAIR AND REASONABLE" AND THAT SERVICE HAS BEEN SATISFACTORILY PERFORMED AND THAT THE INVOICE IS CERTIFIED FOR PAYMENT.	4	JB	450.00	1800.00
	TOTAL				$3080.00

REQUIRED CLAUSES

FAR 52.210-5	New Material	APR 1984
FAR 52.222-26	Equal Opportunity	APR 1984

NAME OF OFFEROR OR CONTRACTOR
GUILFORD LABORATORIES, INC.

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	OVER $2500 - REQUIRED CLAUSES				
	FAR 52.222-36 Affirmative action for Handicapped Workers		APR	1984	
	FAR 52.222-4 Contract Work Hours and Safety Standards -- Overtime Compensation -- General		APR	1984	

FOR DOD ADMINISTRATIVE USE ONLY.

REPORT OF PROPERTY RECEIVED. The Receiving Activity is required to send a REPORT OF PROPERTY RECEIVED (RPR) utilizing a (DD-250 or /DD-1155 or /Memorandum) stating that the material has been received (or services have been rendered) and accepted, to: Contracting Division, Bldg. #1211, MCB, Camp Lejeune, N.C. 28542, within 24 hours after such acceptance, with copy to Freight Traffic Branch, MCB, Bldg. 1011.

GUILFORD LABORATORIES, INC.

827 Huffman Street
P. O. Box 9735, Plaza Station
Greensboro, N. C. 27408
Phone - 274-2907

DATE: 06/21/84
INVOICE NO. 16823

SOLD TO

DEPT. OF NAVY - QUALITY CONTROL LAB
NAT.RES.& ENV. AFF. MARINE CORP. BASE
CAMP LEJUNE NC 28542

ATTN ELIZABETH BETZ

SHIPPED TO

KINDLY RETURN YELLOW COPY WITH YOUR REMITTANCE

DESCRIPTION	AMOUNT
CONTRACT/P.O. # M67001-84-M-5311	
CHEMICAL ANALYSIS ON 4 SAMPLES #1878-1881 (TANK #5-888 THRU #5-891)	1400.00
GC/MS ANALYSIS ON THE ABOVE MENTIONED SAMPLES	400.00
TOTAL NET 30	$1800.00

Waste Oil

"Seller represents that with respect to the production of the articles and/or the services covered by this invoice, it has fully complied with the provisions of the Fair Labor Standards Act of 1938, as amended."

A FINANCE CHARGE OF 1½% PER MONTH EQUAL TO 18% PER ANNUM IS CHARGED TO ALL ACCOUNTS 30 DAYS PAST DUE.

Analysis Completed (when results were received and reviewed): JUL 17 1984

Invoice Received: JUN 26 1984

I certify that the materials/services listed here in were received and accepted.

Elizabeth A. Betz 17 Oct 1984

Elizabeth A. Betz Date

GUILFORD LABORATORIES, INC.

827 Huffman Street
P. O. Box 9735, Plaza Station
Greensboro, N. C. 27408
Phone - 274-2907

DATE: 06/21/84
INVOICE NO. 16823

SOLD TO

DEPT. OF NAVY - QUALITY CONTROL LAB
NAT.RES.& ENV. AFF. MARINE CORP. BASE
CAMP LEJUNE NC 28542

ATTN ELIZABETH BETZ

SHIPPED TO

KINDLY RETURN YELLOW COPY WITH YOUR REMITTANCE

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Analysis Completed (when results were received and reviewed): JUL 17 1984

Invoice Received: JUN 26 1984

I certify that the materials/services listed here in were received and accepted.

Elizabeth A. Betz 17 Oct 1984

Elizabeth A. Betz Date

ORIGINAL INVOICE

GUILFORD LABORATORIES, INC.

827 Huffman Street
P. O. Box 9735, Plaza Station
Greensboro, N. C. 27408
Phone - 274-2907

DATE: 09/10/84
INVOICE NO. 17306

SHIPPED TO

DEPT. OF NAVY - QUALITY CONTROL LAB
NAT.RES.& ENV. AFF. MARINE CORP. BASE
CAMP LEJUNE NC 28542

ATTN ELIZABETH BETZ

SANITARY LANDFILL

KINDLY RETURN YELLOW COPY WITH YOUR REMITTANCE

DESCRIPTION	AMOUNT
O.# M67001-84-M-5311	
ALYSIS ON SAMPLES #3145-3147 (WELL #1 THRU WELL #3) @ $320.00 PER SAMPLE	960.00
TOTAL NET 30	$960.00

"Seller represents that with respect to the production of the articles and/or the services covered by this invoice, it has fully complied with the provisions of the Fair Labor Standards Act of 1938, as amended."

A FINANCE CHARGE OF 1½% PER MONTH EQUAL TO 18% PER ANNUM IS CHARGED TO ALL ACCOUNTS 30 DAYS PAST DUE.

Analysis Completed (when results were received and reviewed): SEP 14 1984

Invoice Received: SEP 14 1984

I certify that the materials/services listed here on were received and accepted.

Elizabeth A. Betz 17 Oct 1984

Elizabeth A. Betz Date

ORIGINAL INVOICE

GUILFORD LABORATORIES, INC.

827 Huffman Street
P. O. Box 9735, Plaza Station
Greensboro, N. C. 27408
Phone - 274-2907

DATE: 09/10/84
INVOICE NO. 17306

SOLD TO

DEPT. OF NAVY - QUALITY CONTROL LAB
NAT.RES.& ENV. AFF. MARINE CORP. BASE
CAMP LEJUNE NC 28542

ATTN ELIZABETH BETZ

SHIPPED TO

KINDLY RETURN YELLOW COPY WITH YOUR REMITTANCE

DESCRIPTION	AMOUNT
CONTRACT/P.O.# M67001-84-M-5311 CHEMICAL ANALYSIS ON SAMPLES #3145-3147 (WELL #1 THRU WELL #3) @ $320.00 PER SAMPLE	960.00
TOTAL NET 30	$960.00

"Seller represents that with respect to the production of the articles and/or the services covered by this invoice, it has fully complied with the provisions of the Fair Labor Standards Act of 1938, as amended."

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Analysis Completed (when results were received and reviewed): SEP 14 1984

Invoice Received: SEP 14 1984

I certify that the materials/services listed here on were received and accepted.

Elizabeth A. Betz 17 Oct 1984
Date

OMB Approval No. 029-0188

STANDARD FORM 18, MARCH 1971
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. 41 CFR) 1-16.201

REQUEST FOR QUOTATIONS
(THIS IS NOT AN ORDER)

1. REQUEST NO. ~~M67001-84-Q-0009~~ M67001-84-
2. DATE ISSUED 84 APR 05
3. REQUISITION/PURCHASE REQUEST NO. SEE SCHEDULE
4. CERTIFIED FOR NATIONAL DEFENSE UNDER DPS REG. 1 AND/OR DMS REG. 1 RATING:
5. ISSUED BY

CONTRACTING DIVISION
P.O. Box 8368, MCB,
Camp Lejeune, NC 28542

BUYER: DON DURRETT
PHONE NUMBER: (919-451- 5095)

FOR INFORMATION CALL *(Name, area code and tel. no.) (No collect calls)*

6. DELIVER BY *(Date)*
7. DELIVERY
☐ FOB DESTINATION ☐ OTHER *(See Schedule)*
8. TO NAME AND ADDRESS *(Street, city, state, and ZIP code)*

5E/3R

9. DESTINATION *(Consignee and address including ZIP code)*

10. Please furnish quotations to the issuing office on or before close of business (date) 84 APR 18. Supplies are of domestic origin unless otherwise indicated by quoter. This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it. This request does not commit the government to pay any costs incurred in the preparation or the submission of this quotation, or to procure or contract for supplies or services.

SCHEDULE

11. ITEM NO.	12. SUPPLIES/SERVICES	13. QUANTITY	14. UNIT	15. UNIT PRICE	16. AMOUNT

NOTE: SEE PAGE #2 (PLUS ANY ADDITIONAL PAGES), for listing of additional items and other pertinent information.

17. PRICES QUOTED INCLUDE APPLICABLE FEDERAL, STATE, AND LOCAL TAXES.

DISCOUNT FOR PROMPT PAYMENT _____ %10 CALENDAR DAYS: _____ % 20 CALENDAR DAYS: _____ % 30 CALENDAR DAYS. _____ % _____ CALENDAR DAYS.

NOTE: Reverse must also be completed by the quoter.

18. NAME AND ADDRESS OF QUOTER *(Street, city, county, State, including ZIP Code)*
19. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION
20. DATE OF QUOTATION
21. SIGNER'S NAME AND TITLE *(Type or print)*
22. TELEPHONE NO. *(Include area code)*

REPRESENTATIONS AND CERTIFICATIONS

The Quoter represents and certifies as part of his quotation that: (Check or complete all applicable boxes or blocks.)

1. SMALL BUSINESS

He ☐ is, ☐ is not, a small business concern. A small business concern for the purpose of Government procurement is a concern, including its affiliates, which is independently owned and operated, is not dominant in the field of operation in which it is quoting on Government contracts, and can further qualify under the criteria concerning number of employees, average annual receipts, or other criteria, as prescribed by the Small Business Administration. (See Code of Federal Regulations, Title 13, Part 121, as amended, which contains detailed industry definitions and related procedures.) If the quoter is a small business concern and is not the manufacturer of the supplies offered, he also represents that all supplies to be furnished hereunder ☐ will, ☐ will not, be manufactured or produced by a small business concern in the United States, its possessions, or Puerto Rico.

2. REGULAR DEALER-MANUFACTURER (Applicable only to supply contracts exceeding $10,000.)

He is a ☐ regular dealer in, ☐ manufacturer of, the supplies offered.

3. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION (Applicable only to quotations in excess of $2,500.)

(a) By submission of this quotation, the quoter certifies, and in the case of a joint quotation, each party thereto certifies as to its own organization, that in connection with this procurement:

(1) the prices in this quotation have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other quoter or with any competitor;

(2) unless otherwise required by law, the prices which have been quoted in this quotation have not been knowingly disclosed by the quoter and will not knowingly be disclosed by the quoter prior to opening in the case of an advertised procurement or prior to award in the case of a negotiated procurement, directly or indirectly, to any other quoter or to any competitor; and

(3) no attempt has been made or will be made by the quoter to induce any other person or firm to submit or not to submit a quotation for the purpose of restricting competition.

(b) Each person signing this quotation certifies that:

(1) he is the person in the quoter's organization responsible within that organization for the decision as to the prices being quoted herein and that he has not participated, and will not participate, in any action contrary to (a)(1) through (a)(3) above; or

(2)(i) He is not the person in the quoter's organization responsible within that organization for the decision as to the prices being quoted herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (a)(1) through (a)(3) above, and as their agent does hereby so certify, and (ii) he has not participated, and will not participate, in any action contrary to (a)(1) through (a)(3) above.

(c) This certification is not applicable to a foreign quoter submitting a quotation for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.

(d) A quotation will not be considered for award where (a)(1), (a)(3), or (b) above has been deleted or modified. Where (a)(2) above has been deleted or modified, the quotation will not be considered for award unless the quoter furnishes with his quotation a signed statement which sets forth in detail the circumstances of the disclosure and the head of the Agency, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

U. S. GOVERNMENT PRINTING OFFICE : 1975 O - 592-565

STANDARD FORM 36, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

CONTINUATION SHEET 3R

REF. NO. OF DOC. BEING CONT'D. M67001-84-Q-0009

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	M93170-4081-1201 SERVICES: ANALYSIS OF LANDFILL MONITORING WELLS SAMPLES TO INCLUDE THE FOLLOWING PARAMETERS, ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, MERCURY, SELENIUM, SILVER NITRATE, FLUORIDE, CHLORIDE, COPPER, COLOR, IRON, MAGANESE, SULFATE, PH, TOTAL DISOLVED SOLIDS, ZINC, CONDUCTIVITY AND TOTAL ORGANIC HALOGEN. EACH OF THE FOUR (4) WELLS WILL HAVE ONE SAMPLE.	1	JOB		
0002	M93170-4081-1202 SERVICE: USED OIL ANALYSIS FOR FULL RCRA PLUS IGNITABILITY, CORROSIVITY, BTU, % SEDIMENT VISCOSITY, API GRAVITY @ 60 DEGREES F, CORROSIVE INDEX-COPPER STRIP, % SULFUR, E.P. TOXICITY METALS, ORGANICS. ANALYSIS WILL CONSIST OF 4 SAMPLES FROM EACH OF 4 TANKS. TWENTY SAMPLE BOTTLES FROM THE CONTRACTOR WILL BE NEEDED. TURN AROUND TIME WILL BE TWO (2) WEEKS AFTER RECEIPT OF SAMPLES	1	JOB		

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

CLAUSES - AS APPLICABLE:

[ ] (1) INDICATE IN THE SPACE PROVIDED AFTER EACH ITEM, the manufacturer's name, brand, and number, if other than as specified in the discription. BID WILL BE CONSIDERED NONRESPONSIVE AND WILL BE REJECTED OTHERWISE.

MANUFACTURER:
BRAND:
NUMBER:

[ ] (2) VENDORS PROPOSED - DAYS FOR DELIVERY:

[ ] (3) PRESERVATION, PACKAGING, AND PACKING will be in accordance with the best commercial practice for acceptance by common carrier.

[ ] (4) AWARD will be made by item or lot, whichever is most advantageous to the Government.

[ ] (5) INSPECTION AND ACCEPTANCE will be made by consignee at destination.

[ ] (6) F.O.B. POINT - INDICATE "DESTINATION" OR "OTHER" IN BLOCK #7 PAGE #1. (GOVERNMENT DESIRES F.O.B. DESTINATION QUOTES)

[ ] (7) OVER $10,000.00 - THE FOLLOWING CLAUSES WILL APPLY.

DAR 7-103.17 WALSH - HEALEY PUBLIC CONTRACTS ACT (1958 JAN)

DAR 7-103.18(A) EQUAL OPPORTUNITY CLAUSE (1978 SEP)

DAR 7-103.27 AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (1976 JULY)

DAR 7-103-28 AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS (1976 MAY)

DAR 7-104.14(A) UTILIZATION OF SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS CONCERN. (1980 AUG)

DAR 7-2003.32 NOTICE OF SMALL BUSINESS - SMALL PURCHASE SET-ASIDE (1980 AUG)

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 1-6-87 Turnaround: routine

Date: 2-4-87 Report No. 506 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-035 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		pH	Color units	TDS mg/L	Nitrate mg/L	Conductivity umhos	Fluoride mg/L	Chloride mg/L	Sulfate mg/L
Landfill A Well	12-4119	5.6	120	203	<0.02	295	<0.19	18	37
Landfill B Well	12-4120	5.4	40	120	<0.02	220	<0.19	71	<5
Landfill C Well	12-4121	5.1	15	52	<0.02	38	<0.19	18	<5
Landfill D Well	12-4122	5.1	12	35	<0.02	38	<0.19	9	<5

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 1-6-87 Turnaround: routine

Date: 2-4-87 Report No. 506 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-035 Table 2

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		TOC mg/L	TOX ug/L						
Landfill A Well	12-4119	11.7	13						
Landfill B Well	12-4120	10.5	132						
Landfill C Well	12-4121	2.8	35						
Landfill D Well	12-4122	0.8	13						

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 1-6-87 Turnaround: routine

Date: 2-4-87 Report No. 506 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-035 Table 3

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		As ug/L	Ba ug/L	Cd ug/L	Cr ug/L	Pb ug/L	Hg ug/L	Se ug/L	Ag ug/L
Landfill A Well	12-4119	<10	<200	<5	<10	<5.0	<0.2	<5.0	<10
Landfill B Well	12-4120	<10	<200	<5	<10	<5.0	<0.2	<5.0	<10
Landfill C Well	12-4121	<10	<200	<5	<10	<5.0	<0.2	<5.0	<10
Landfill D Well	12-4122	<10	<200	<5	<10	<5.0	<0.2	<5.0	<10

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 1-6-87 Turnaround: routine

Date: 2-4-87 Report No. 506 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-035 Table 4

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Cu ug/L	Fe ug/L	Mn ug/L	Zn ug/L				
Landfill A Well	12-4119	<25	13,000	117	<20				
Landfill B Well	12-4120	<25	4250	35	38				
Landfill C Well	12-4121	<25	2900	<15	<20				
Landfill D Well	12-4122	<25	2000	<15	<20				

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GUILFORD LABORATORIES, INC.
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

16 NOVEMBER 1984

REPORT OF ANALYSIS

JOB#: DN41105

CUSTOMER: DEPT. OF NAVY - MARINE CORP.

SAMPLES: #4107 SANITARY LANDFILL WELL #4

RESULTS

	#4107
ARSENIC(ppm)	0.0029
BARIUM(ppm)	0.5
CADMIUM(ppm)	0.039
CHROMIUM(ppm)	0.10
LEAD(ppm)	0.305
MERCURY(ppm)	<0.001
SELENIUM(ppm)	<0.001
SILVER(ppm)	0.023
IRON(ppm)	14.31
MANGANESE(ppm)	0.233
ZINC(ppm)	0.041
SULFATE(ppm)	11.37
TOTAL DISSOLVED SOLIDS(ppm)	329.8
CONDUCTIVITY(uhmos)	490.0
TOX(ppm)	<0.01
TOC(ppm)	22.0

GUILFORD LABORATORIES, INC.

J.A. Rayburn

J.A. RAYBURN

GUILFORD LABORATORIES, INC.
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

10 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40820

CUSTOMER: UNITED STATES MARINE CORPS.

SAMPLES: #3145 WELL #1
#3146 WELL #2
#3147 WELL #3

RESULTS

	#3145	#3146	#3147
ARSENIC(ppm)	<0.001	<0.001	<0.001
BARIUM(ppm)	0.147	0.147	0.147
CADMIUM(ppm)	0.010	0.003	0.006
CHROMIUM(ppm)	0.026	0.020	0.008
LEAD(ppm)	0.164	0.144	0.164
MERCURY(ppm)	<0.001	<0.001	<0.001
SELENIUM(ppm)	<0.001	<0.001	<0.001
SILVER(ppm)	0.022	<0.001	<0.001
NITRATE NITROGEN(ppm)	0.54	0.34	0.40
FLUORIDE(ppm)	0.60	0.11	<0.10
CHLORIDE(ppm)	2.2	10.4	3.8
COPPER(ppm)	0.027	<0.001	0.006
COLOR(PT/CO units)	10.00	35.00	50.00
IRON(ppm)	8.68	1.86	5.78
MANGANESE(ppm)	0.104	0.005	0.026
SULFATE(ppm)	66.6	4.61	10.09
pH	6.56	6.51	7.25
TOTAL ORGANIC HALOGEN(ppm)	<0.01	<0.01	<0.01
TOTAL ORGANIC CARBON(ppm)	43.5	13.0	10.5

GUILFORD LABORATORIES, INC

J A Rayburn
SKM

J.A.RAYBURN

PIEDMONT RESEARCH LABORATORIES
2748 Patterson Street
Greensboro, N.C. 27407

GREENSBORO, NC 27
PM
8 DEC
1986

NAT. RES. AND ENV. AFF. MARINE CORP. BASE
CAMP LEJUNE, NC 28542
ATTN: ELIZABETH BETZ

03

Eakes

Thought you might like these extra copies!

th

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313
AUTOVON 690-7313
IN REPLY REFER TO:
114:PPC
6280

2 MAR 1979

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune

Subj: Results of chemical analysis of water samples from landfill test wells; forwarding of

Ref: (a) LANTNAVFACENGCOM ltr 114:PPC 6280 of 7 Sep 1978
(b) MARCORB CAMP LEJEUNE ltr MAIN/JTW/th 6240 of 24 Jan 1979

Encl: (1) Copies of chemical analysis reports

1. As requested by reference (a), reference (b) forwarded fifteen water samples from landfill test wells for chemical analysis. Results of the chemical analysis do not indicate any severe contamination of the ground water underneath the landfill. Once a year monitoring of the landfill test wells is recommended.

2. Enclosure (1) is forwarded for your information.

3. Point of contact on this matter is Mr. P. Cunanan, P. E., telephone AUTOVON 690-7313.

J. G. Leech
By direction

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-16 chemical Dump

LABORATORY NAME:

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	130.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.04
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.2
	CHLORIDE	MG/L	00940	
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	X MG/L	00310	32.0
	COD	X MG/L	00340	215.87
	TOC	X MG/L	00680	12.4
	OIL AND GREASE	X MG/L	70350	< 1.0
	PHENOLS	X MG/L	32730	< 0.005
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	X MG/L	01027	< 0.005
	CHROMIUM, TOTAL	X MG/L	01034	0.08
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	X MG/L	01051	0.215
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		8.36

REMARKS
W9001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

#1061 2-9-79

ENCL (1)

130 SQ

NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-15 Chemical dump

LABORATORY NAME:

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
6 SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	80.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
7.5 NUTRIENTS	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.37
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
1 NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.90
NON-CATEGORIZED PARAMETER	CHLORIDE	MG/L	00940	
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
15 NON-CATEGORIZED PARAMETER	BOD	X MG/L	00310	40.0
12 NON-CATEGORIZED PARAMETER	COD	X MG/L	00340	134.69
13.5 NON-CATEGORIZED PARAMETER	TOC	X MG/L	00680	7.8
12.5 NON-CATEGORIZED PARAMETER	OIL AND GREASE	X MG/L	70350	1.0
12.5 NON-CATEGORIZED PARAMETER	PHENOLS	X MG/L	32730	< 0.005
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	X MG/L	01027	< 0.005 8
HEAVY METALS	CHROMIUM, TOTAL	X MG/L	01034	0.02 8
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	X MG/L	01051	< 0.005 12
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		6.84 12.5
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
W0001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

#1060 2-9-79

ENCL (2)

1305

NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
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50060 CHLORINE RESIDUAL
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01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-11

LABORATORY NAME: MCB Camp Lejeune

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
6	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	248.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
7.5	N-NITRATE TOTAL (AS N)	MG/L X	00620	0.015.
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.20
1	CHLORIDE	MG/L X	00940	13.60
5	TURBIDITY LAB	JTU/FTU	W0072	
15	BOD	MG/L X	00310	19.4
12	COD	MG/L X	00340	105.17
13.3	TOC	MG/L X	00680	5.0
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		2.40

REMARKS: W9001

SIGNATURE: W. H. Jennings, Jr

DATE: 2-15-79

1062-2-9-79

ENCL (3)

72.50

NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATOR[illegible]LTIPLE PARAMETER WATER QUALITY ANALYS[illegible]ECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-12 145 PM

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X	70300	70.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X	00620	0.05
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.30
NON-CATEGORIZED PARAMETER	CHLORIDE	X	00940	4.0
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X	00310	6.0
NON-CATEGORIZED PARAMETER	COD	X	00340	23.99
NON-CATEGORIZED PARAMETER	TOC	X	00680	3.2
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.0
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARK
W9001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

#1063 2-9-79

ENCL 4

72 50

EPSS WATER QUALITY DATA ELEMENT INDEX (CK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

5ND LANTDIV 9-11330/3 (4-75)

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-13

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	40.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	MG/L X	00620	0.41
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.75
NON-CATEGORIZED PARAMETER	CHLORIDE	MG/L X	00940	8.20
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	MG/L X	00310	8.0
NON-CATEGORIZED PARAMETER	COD	MG/L X	00340	27.68
NON-CATEGORIZED PARAMETER	TOC	MG/L X	00680	3.8
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		228
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
W8001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

#1064 2-9-79

ENCL 5

72 52

[illegible]EPSS WATER QUALITY DATA ELEMENT INDEX [illegible]CK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

SAMPLE IDENTIFICATION

SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-14 300 PM

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	244.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.475
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.21
NON-CATEGORIZED PARAMETER	CHLORIDE	X MG/L	00940	28.99
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X MG/L	00310	315.0
NON-CATEGORIZED PARAMETER	COD	X MG/L	00340	518.45
NON-CATEGORIZED PARAMETER	TOC	X MG/L	00680	14.8
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.76
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
W9001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

#1065 2-9-79

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NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
1IND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION

SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-25

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X	70300	176.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X	00620	<0.01
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.80
NON-CATEGORIZED PARAMETER	CHLORIDE	X	00940	7.50
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X	00310	9.2
NON-CATEGORIZED PARAMETER	COD	X	00340	28.46
NON-CATEGORIZED PARAMETER	TOC	X	00680	5.2
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		1.76
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
W9001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

#1073 2-9-79 ENCL 7 7252

NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY [illegible]TIPLE PARAMETER WATER QUALITY ANALYSI[illegible]CORD

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5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-24

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	162.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.014
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.14
NON-CATEGORIZED PARAMETER	CHLORIDE	X MG/L	00940	22.99
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X MG/L	00310	52.0
NON-CATEGORIZED PARAMETER	COD	X MG/L	00340	241.87
NON-CATEGORIZED PARAMETER	TOC	X MG/L	00680	8.8
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
ARSENIC, TOTAL	MG/L	01002		HEAVY METALS
CADMIUM, TOTAL	MG/L	01027		HEAVY METALS
CHROMIUM, TOTAL	MG/L	01034		HEAVY METALS
COPPER, TOTAL	MG/L	01042		HEAVY METALS
IRON, TOTAL	MG/L	01045		HEAVY METALS
LEAD, TOTAL	MG/L	01051		HEAVY METALS
MAGNESIUM, TOTAL	MG/L	00927		HEAVY METALS
MANGANESE, TOTAL	MG/L	01055		HEAVY METALS
MERCURY, TOTAL	MG/L	71900		HEAVY METALS
POTASSIUM, TOTAL	MG/L	00937		HEAVY METALS
SILVER, TOTAL	MG/L	01077		HEAVY METALS
ZINC, TOTAL	MG/L	01092		HEAVY METALS
TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
FECAL COLIFORM	MFC/100ML	31616		COLIFORM
TOTAL COLIFORM	MPN/100ML	31506		COLIFORM
FECAL COLIFORM	MPN/100ML	31620		COLIFORM
Organic Nitrogen	X		1.76	ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS

REMARKS: W9001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

1072 2-9-79

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72.50

NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-23

LABORATORY NAME: MCB Camp Lejeune

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X	70300	758.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X	00620	<0.01
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.32
NON-CATEGORIZED PARAMETER	CHLORIDE	X	00940	409.80
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X	00310	24.0
NON-CATEGORIZED PARAMETER	COD	X	00340	69.11
NON-CATEGORIZED PARAMETER	TOC	X	00680	6.0
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.18
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS: W9001

SIGNATURE: W. H. Jennings Jr.

DATE: 2-15-79

1071 2-9-79

ENCL 9

72.50

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATOR[illegible]LTIPLE PARAMETER WATER QUALITY ANALYS[illegible]ECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-22

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	290.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.013
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.13
NON-CATEGORIZED PARAMETER	CHLORIDE	X MG/L	00940	15.88
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X MG/L	00310	16.0.
NON-CATEGORIZED PARAMETER	COD	X MG/L	00340	85.37
NON-CATEGORIZED PARAMETER	TOC	X MG/L	00680	5.8
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
ARSENIC, TOTAL	MG/L	01002		HEAVY METALS
CADMIUM, TOTAL	MG/L	01027		HEAVY METALS
CHROMIUM, TOTAL	MG/L	01034		HEAVY METALS
COPPER, TOTAL	MG/L	01042		HEAVY METALS
IRON, TOTAL	MG/L	01045		HEAVY METALS
LEAD, TOTAL	MG/L	01051		HEAVY METALS
MAGNESIUM, TOTAL	MG/L	00927		HEAVY METALS
MANGANESE, TOTAL	MG/L	01055		HEAVY METALS
MERCURY, TOTAL	MG/L	71900		HEAVY METALS
POTASSIUM, TOTAL	MG/L	00937		HEAVY METALS
SILVER, TOTAL	MG/L	01077		HEAVY METALS
ZINC, TOTAL	MG/L	01092		HEAVY METALS
TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
FECAL COLIFORM	MFC/100ML	31616		COLIFORM
TOTAL COLIFORM	MPN/100ML	31506		COLIFORM
FECAL COLIFORM	MPN/100ML	31620		COLIFORM
Organic Nitrogen	X		2.65	ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS

REMARKS: W9001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-15-79

1070 2-9-79 ENCI 10 72.50

NEPSS WATER QUALITY DATA ELEMENT INDEX (BLACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
1IND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TN-21 215 pm

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	150.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	MG/L X	00620	<0.01
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.6
	CHLORIDE	MG/L X	00940	10.5
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	MG/L X	00310	18.4
	COD	MG/L X	00340	50.81
	TOC	MG/L X	00680	7.0
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	MG/L	01027	
	CHROMIUM, TOTAL	MG/L	01034	
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	MG/L	01051	
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.76

REMARKS
W9001

SIGNATURE: W. D. Jennings, Jr.

DATE: 2-16-79

#1069 2-9-79

ENCL 11

7250

EPSS WATER QUALITY DATA ELEMENT INDEX (BLACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
1IND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-20 200pm

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	~~MG/L~~	70300	60.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	~~MG/L~~	00620	0.04
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.03
NON-CATEGORIZED PARAMETER	CHLORIDE	~~MG/L~~	00940	4.5
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	~~MG/L~~	00310	36.0
NON-CATEGORIZED PARAMETER	COD	~~MG/L~~	00340	166.67
NON-CATEGORIZED PARAMETER	TOC	~~MG/L~~	00680	10.5
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		4.76
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
W9001

SIGNATURE: W. H. Jennings Jr.

DATE: 2-15-79

#1068 2-9-79

ENCL 12

7250

EPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-19 1:30 P.M.

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	104.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.16
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.8
NON-CATEGORIZED PARAMETER	CHLORIDE	X MG/L	00940	4.0
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X MG/L	00310	11.0
NON-CATEGORIZED PARAMETER	COD	X MG/L	00340	57.20
NON-CATEGORIZED PARAMETER	TOC	X MG/L	00680	7.4
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.52
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
W9001

SIGNATURE: W. H. Fenning, Jr.

DATE: 2-15-79

#1067 2-9-79

ENCL 13

72.50

REPSS WATER QUALITY DATA ELEMENT INDEX (BLACK)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-18 1:15 PM

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X	70300	392.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X	00620	0.065
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.16
NON-CATEGORIZED PARAMETER	CHLORIDE	X	00940	57.58
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X	00310	10.0
NON-CATEGORIZED PARAMETER	COD	X	00340	75.65
NON-CATEGORIZED PARAMETER	TOC	X	00680	8.0
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.44
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARK: W0001

SIGNATURE: W. H. Jennings Jr.

DATE: 2-15-79

1066 2-9-79

ENCL 14

72 52

EPSS WATER QUALITY DATA ELEMENT INDEX (K)

W7797 AIRCRAFT CLEANING COMPOUND
39330 ALDRIN IN WHOLE WATER SAMPLE
00410 ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105 ALUMINUM
W0079 AMMONIUM PICRATE
01097 ANTIMONY, TOTAL
01002 ARSENIC
01007 BARIUM
W7796 BENZENE
01012 BERYLLIUM
00440 BICARBONATE ION (MG/L AS HCO_3)
W7777 BIOASSAY, PERCENT SURVIVAL
W8888 BIOASSAY, TLM_{50}
00310 BIOCHEMICAL OXYGEN DEMAND
01022 BORON
W0070 BOTTOM INDICATOR
W7798 C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799 C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800 C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
W7801 C_{13}-C_{20} SHORT CHAIN HYDROCARBONS
01027 CADMIUM
00916 CALCIUM
28401 CESIUM-137
00340 CHEMICAL OXYGEN DEMAND
00940 CHLORIDE
74052 CHLORINATED HYDROCARBON, GENERAL (PERMIT)
00365 CHLORINE DEMAND, 15 MINUTE
00369 CHLORINE DEMAND, 30 MINUTE
00370 CHLORINE DEMAND, 1 HOUR
00375 CHLORINE DEMAND, 2 HOUR
00380 CHLORINE DEMAND, 24 HOUR
50064 CHLORINE, FREE AVAILABLE
50060 CHLORINE RESIDUAL
01034 CHROMIUM
01032 CHROMIUM, HEXAVALENT
01037 COBALT
29601 COBALT-60
31616 COLIFORM, FECAL (MFC)
31620 COLIFORM, FECAL (MPN)
31503 COLIFORM, TOTAL (MFC)
31506 COLIFORM, TOTAL (MPN)
00081 COLOR
W9000 COMMENTS, FIELD COLLECTOR'S
00095 CONDUCTIVITY
01042 COPPER
00720 CYANIDE
39365 DDE
39370 DDT
W0064 DEPTH
00300 DISSOLVED OXYGEN
W0074 DURATION
W7791 FILTERABLE CHEMICAL OXYGEN DEMAND
W7778 FLOATING SOLIDS
00056 FLOWRATE
00951 FLUORIDE
00910 HARDNESS, CALCIUM (MG/L AS $CACO_3$)
00920 HARDNESS, MAGNESIUM (MG/L AS $CACO_3$)
00900 HARDNESS, TOTAL (MG/L AS $CACO_3$)
W0051 HMX
28301 IODINE-131
01045 IRON
W7782 IRON PLUS MANGANESE
W7795 JP-5
01051 LEAD
00927 MAGNESIUM
01055 MANGANESE
71900 MERCURY
38260 METHYLENE BLUE ACTIVE SUBSTANCES
W7790 MINERAL FRACTION IN GREASE
01062 MOLYBDENUM
01067 NICKEL
00610 NITROGEN-AMMONIA
00620 NITROGEN-NITRATE
00615 NITROGEN-NITRITE
W7781 NITROGEN/PHOSPHORUS RATIO
00600 NITROGEN, TOTAL (MG/L AS N)
00625 NITROGEN, TOTAL KJELDAHL
00605 NITROGEN, TOTAL ORGANIC
00085 ODOR TEST READING
70350 OIL AND GREASE
00660 ORTHOPHOSPHATE (MG/L AS PO_4)
00090 OXIDATION REDUCTION POTENTIAL
00400 PH FIELD
00403 PH LABORATORY
32730 PHENOLS
00650 PHOSPHATE, TOTAL
00678 PHOSPHORUS, TOTAL
W0055 POLYCHLORINATEDBIPHENYLS
00655 POLYPHOSPHATE (MG/L AS PO_4)
00937 POTASSIUM
W0093 PROPYLENE GLYCOL DINITRATE
W0050 RDX
W9001 REMARKS, LABORATORY'S
00096 SALINITY
00077 SECCHI DISC METER READING
01147 SELENIUM
00956 SILICA, TOTAL (MG/L AS SIO_2)
01077 SILVER
W7780 SLUDGE VOLUME INDEX
00929 SODIUM
W7803 SODIUM CHLORIDE
00932 SODIUM, PERCENT
00545 SOLIDS, SETTLEABLE
00546 SOLIDS, SETTLEABLE BY WEIGHT
00500 SOLIDS, TOTAL
70300 SOLIDS, TOTAL DISSOLVED
00510 SOLIDS, TOTAL RESIDUAL
00530 SOLIDS, TOTAL SUSPENDED
00505 SOLIDS, TOTAL VOLATILE
W7794 STODDARD SOLVENT
15501 STRONTIUM-90
00945 SULFATES
00745 SULFIDES
W0077 SULFITES
00010 TEMPERATURE
01059 THALLIUM, TOTAL (AS TL)
01102 TIN
01152 TITANIUM
00680 TOTAL ORGANIC CARBON
W7783 TOXICITY CONCENTRATION
W0067 TRANSMISSIBILITY, PERCENT
W0043 TRI-NITRO TOLUENE
00075 TURBIDITY, FIELD
W0072 TURBIDITY, LABORATORY
W0073 TYPE SAMPLE
01087 VANADIUM, TOTAL (AS V)
W7779 VISIBLE FOAM
01092 ZINC

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
1IND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-26

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	138.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	X MG/L	00620	<0.01
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.70
	CHLORIDE	X MG/L	00940	8.0
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	X MG/L	00310	11.0
	COD	X MG/L	00340	30.49
	TOC	X MG/L	00680	6.5
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	MG/L	01027	
	CHROMIUM, TOTAL	MG/L	01034	
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	MG/L	01051	
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		5.6

REMARKS
W9001

SIGNATURE: W. H. Jennings Jr.

DATE: 2-15-79

#1074 2-9-79

ENCL 15

92 52

[illegible]PSS WATER QUALITY DATA ELEMENT INDEX ([illegible])

W7797	AIRCRAFT CLEANING COMPOUND
39330	ALDRIN IN WHOLE WATER SAMPLE
00410	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
01105	ALUMINUM
W0079	AMMONIUM PICRATE
01097	ANTIMONY, TOTAL
01002	ARSENIC
01007	BARIUM
W7796	BENZENE
01012	BERYLLIUM
00440	BICARBONATE ION (MG/L AS HCO_3)
W7777	BIOASSAY, PERCENT SURVIVAL
W8888	BIOASSAY, TLM_{50}
00310	BIOCHEMICAL OXYGEN DEMAND
01022	BORON
W0070	BOTTOM INDICATOR
W7798	C_1-C_4 SHORT CHAIN HYDROCARBONS
W7799	C_5-C_9 SHORT CHAIN HYDROCARBONS
W7800	C_{10}-C_{12} SHORT CHAIN HYDROCARBONS
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01034	CHROMIUM
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31620	COLIFORM, FECAL (MPN)
31503	COLIFORM, TOTAL (MFC)
31506	COLIFORM, TOTAL (MPN)
00081	COLOR
W9000	COMMENTS, FIELD COLLECTOR'S
00095	CONDUCTIVITY
01042	COPPER
00720	CYANIDE
39365	DDE
39370	DDT
W0064	DEPTH
00300	DISSOLVED OXYGEN
W0074	DURATION
W7791	FILTERABLE CHEMICAL OXYGEN DEMAND
W7778	FLOATING SOLIDS
00056	FLOWRATE
00951	FLUORIDE
00910	HARDNESS, CALCIUM (MG/L AS $CACO_3$)
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00600	NITROGEN, TOTAL (MG/L AS N)
00625	NITROGEN, TOTAL KJELDAHL
00605	NITROGEN, TOTAL ORGANIC
00085	ODOR TEST READING
70350	OIL AND GREASE
00660	ORTHOPHOSPHATE (MG/L AS PO_4)
00090	OXIDATION REDUCTION POTENTIAL
00400	PH FIELD
00403	PH LABORATORY
32730	PHENOLS
00650	PHOSPHATE, TOTAL
00678	PHOSPHORUS, TOTAL
W0055	POLYCHLORINATEDBIPHENYLS
00655	POLYPHOSPHATE (MG/L AS PO_4)
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W0093	PROPYLENE GLYCOL DINITRATE
W0050	RDX
W9001	REMARKS, LABORATORY'S
00096	SALINITY
00077	SECCHI DISC METER READING
01147	SELENIUM
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00932	SODIUM, PERCENT
00545	SOLIDS, SETTLEABLE
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00530	SOLIDS, TOTAL SUSPENDED
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W7794	STODDARD SOLVENT
15501	STRONTIUM-90
00945	SULFATES
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W0077	SULFITES
00010	TEMPERATURE
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W7783	TOXICITY CONCENTRATION
W0067	TRANSMISSIBILITY, PERCENT
W0043	TRI-NITRO TOLUENE
00075	TURBIDITY, FIELD
W0072	TURBIDITY, LABORATORY
W0073	TYPE SAMPLE
01087	VANADIUM, TOTAL (AS V)
W7779	VISIBLE FOAM
01092	ZINC

PERMIT NO. 67-03

DATE ISSUED 7/20/82

STATE OF NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
Division of Health Services
P.O. Box 2091 Raleigh 27602

SOLID WASTE PERMIT

CAMP LEJEUNE MARINE CORPS BASE is hereby issued a permit to operate a SANITARY LANDFILL located ON SNEADS FERRY ROAD (ONSLOW COUNTY), in accordance with Article 13B of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located on the below described property.

BEGINNING at a point 332,151.5691/2,508,793.014:
thence N 28° 22' 46" W 3,100 feet;
thence N 61° 37' 14" E 1,950 feet;
thence S 28° 22' 46" E 3,100 feet;
thence S 61° 37' 14" W 1,950 feet;
to the point of beginning. The above coordinates are relative to the N.C. Coordinate System.

Area = 138.77 acres

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

DHS Form 2871 (Rev. 1/82)

PERMIT NO. 67-03

DATE ISSUED 7/20/82

SOLID WASTE PERMIT

Conditions of Permit:

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges and duties may have been affected by the issuance thereof.

2. This permit shall not be effective unless the certified copy is filed in the register of deeds' office, in the grantor index under the name of the owner of the land in the county or counties in which the land is located.

3. The "Certification of Recordation of Solid Waste Permit" returned to the Solid & Hazardous Waste Management Branch prior to receiving solid waste at the site.

4. This solid waste disposal site is permitted to receive solid waste as defined in 10 NCAC 10G, .0101(31), except that hazardous waste, liquid waste and any other wastes that may pose a threat to the environment or the public health are prohibited from disposal at this site unless prior authorization is obtained from the Division of Health Services.

5. This permit is for construction according to plans by McDowell-Jones, P.A., dated March, 1982. Any modification or deviation from the approved plans shall be approved by the N.C. Solid & Hazardous Waste Management Branch.

6. The fly ash area is operated so as to provide cover on the horizontal surface daily. The working slope of the area will not require daily cover if the fly ash does not become airborne. The fly ash should be graded and compacted daily, when disposed. Top cover for the fly ash may be other demolition material.

7. The grease holding pond is not part of this permit.

8. Ground-water monitoring wells are installed as shown in red on pages 1 and 2 of the plans per the enclosed specification.

9. Water quality monitoring will be the responsibility of Camp Lejeune Marine Corps Base. Parameters and sampling procedures will be outlined and forwarded. Results of water quality tests shall be forwarded to this office annually.

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

July 20, 1982

Commanding General
United States Marine Corps
Marine Corps Base
Camp Lejeune, NC 28542
Attn: Asst. Chief of Staff-Facilities

Re: Permit #67-03
Camp Lejeune, Onslow County

Dear Sir:

The enclosed plan is approved in accordance with G.S. 130-166. Permit No. 67-03 is issued under conditions provided for on the permit.

If you have any questions, please advise.

Respectfully,

J. Gordon Layton

J. Gordon Layton, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section

JGL:ns
Enclosure
cc: R. E. Carlson
Raymond L. Church
Pat McDowell
Eris L. Rouse

SANITARY LANDFILL OPERATING REQUIREMENTS
(See Note 1)

1. The following actions should be initiated by Director, Operations Division:

a. Effect the design and installation of four state approved monitoring wells (See Note 1) at the sanitary landfill.

b. Develop a job order to construct a sediment basin at the north west end of the sanitary landfill. Plans and specifications for the existing basin at the south east end of the landfill should be used as a guide. At the same time, stabilize any inactive areas of the landfill.

c. Provide ongoing engineering support required to ensure that slopes/grades/elevations of cuts and fills at landfill are consistent with state requirements (See Note 1).

2. The following action should be initiated by Director, M&R Division (See Note 1):

a. Review the state permit/operating plan carefully with personnel operating the landfill.

b. Provide a gate attendant at all times when the landfill is open.

c. Ensure that flyash is leveled and covered with dirt daily.

d. Reduce active working surfaces (areas) to a minimum and stabilize inactive surfaces (areas) with vegetation, mulch or other erosion control materials.

3. It is suggested that representatives of the M&R Branch and Natural Resources Branch conduct joint periodic inspections of the landfill operation utilizing state inspection format.

4. It is recommended that as soon as sediment basin/drainage outlet is provided at north west end of the landfill the tank trail through landfill be realigned, straightened and routed along the location where putrecible and non-putrecible waste cells join (See Note 1). Construction debris should be used as fill to bring road bed up to existing elevation of top of landfill and normal ground.

Note 1: The above requirements were developed based on information contained in North Carolina Division of Health Services Permit #67-03 issued on 7/20/82 and related operation plans prepared by McDowell-Jones, PA, Elizabeth City, North Carolina.

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

CERTIFIED COPY OF SOLID WASTE PERMIT

I do hereby certify that the attached PERMIT is an exact and true copy of Permit No. 6703.

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

North Carolina
Wake County

I, Nell J. Sellers, a Notary Public for said County and State, do hereby certify that O. W. Strickland personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 26th day of July, 1982.

(Official seal)

Nell J. Sellers
Notary Public

My commission expires July 24, 1982.

PROCEDURES FOR INSTALLATION OF GROUND-WATER MONITORING WELLS

The location of monitoring wells at the proposed landfill site is the most critical phase of the site development. Placement of the monitoring wells will be based on ground-water gradients established during the preliminary site investigation. The selection of monitoring well locations must be coordinated with the geologist for the Solid and Hazardous Waste Management Branch. This is to assure uniformity of installation procedures and conformance with EPA regulations.

The procedure for drilling through the unsaturated soil mantle to the water bearing formation is a standard procedure with most consulting and well drilling firms. The only precaution in this stage of the installation is minimizing the use of drilling fluid (bentonite-gel mixture), flocculants (mixtures of sodium pyrophosphate) and excessive use of lubricants. If any of these or relating products are used in the drilling process, the hole should be flushed to remove as much of the contaminants as possible.

Installation of the monitoring well and placement of the well screen is critical to assure the ground-water sample represents the uppermost layer of the water-bearing material where hydrocarbons and toxic organics may accumulate. A minimum well screen length of ten feet is required. In most cases an additional five-foot section of well screen above the ground-water level at the time of boring will be required. This is to account for a possible rise in the static ground-water level due to stabilization after boring and seasonal fluctuations.

In connecting sections of PVC pipe, clamps or threaded fittings of pipe is preferred over epoxy cement as the latter may contaminate ground-water samples.

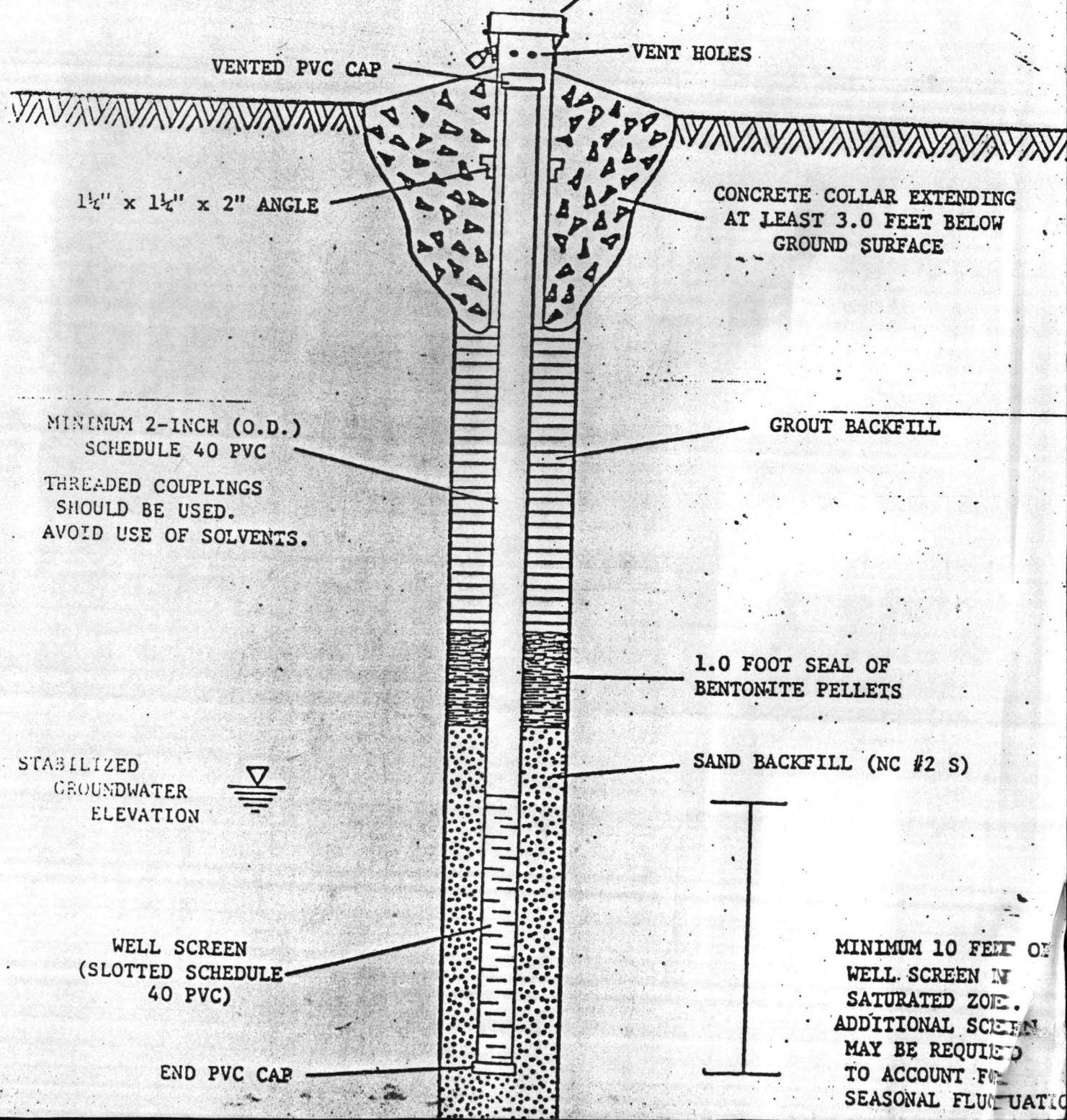
Sand, used as a pre-screening of influent ground-water, should be washed to remove all fines and prevent clogging of the well screen.

The remainder of materials used in the installation of the monitoring wells are fairly self-explanatory. Should questions arise as to the type of materials or any phase of the installation, please contact the geologist for the Solid and Hazardous Waste Management Branch in Raleigh, N.C., at (919) 733-2178.

TYPICAL GROUNDWATER MONITORING WELL INSTALLATION

SOLID & HAZARDOUS WASTE MANAGEMENT BRANCH
DIVISION OF HEALTH SERVICES

COPY OF WELL LOG MUST BE SUBMITTED TO DHS UPON COMPLETION OF MONITORING WELL.



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

CERTIFICATION OF RECORDATION OF SOLID WASTE PERMIT

The Certified Copy of Permit #_____ was recorded

on Page _____, Book _____; on this

_____ day of _____, 19____.

_____
Register of Deeds

_____ (seal)

To Landfill Owner/Operator:

In order for this permit to be valid it must be recorded as specified in the Permit. This certification of recordation must be received by the Solid & Hazardous Waste Management Branch, Division of Health Services, P.O. Box 2091, Raleigh, NC 27602, prior to receiving solid waste at the disposal site.

Good
WEATHER CONDITIONS

N.C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
INSPECTION FOR SANITARY LANDFILLS

GZ-0
PERMIT NUMBER

NAME OF SITE	COUNTY
Marine Corp - Camp LeJeune	Onslow
LOCATION	**SIGNATURE OF PERSON(S) RECEIVING REPORT**
Sneads Ferry Rd.	[illegible]

SIR: AN INSPECTION OF YOUR LAND DISPOSAL SITE HAS BEEN MADE THIS DATE AND YOU ARE NOTIFIED OF THE VIOLATIONS, IF ANY, MARKED BELOW WITH A CROSS (X).

(1) PLAN AND PERMIT REQUIREMENTS
- ___ (a) Construction plans shall be approved and followed.
- ___ (b) Specified monitoring and reporting requirements shall be met.

(2) SPREADING AND COMPACTING REQUIREMENTS
- ___ (a) Solid waste shall be restricted into the smallest area feasible.
- ___ (b) Solid waste shall be compacted as densely as practical into cells.

(3) COVER REQUIREMENTS
- ___ (a) Solid waste shall be covered after each day of operation, with a compacted layer of at least six inches of suitable cover or as specified by the division.
- ___ (b) Areas which will not have additional wastes placed on them for 12 months or more shall be covered with a minimum of one foot of intermediate cover.
- ___ (c) After final termination of disposal operations at the site or a major part thereof or upon revocation of a permit, the area shall be covered with at least two feet of suitable compacted earth.

(4) EROSION CONTROL REQUIREMENTS
- ___ (a) Adequate erosion control measures shall be practiced to prevent silt from leaving the site.
- ___ (b) Adequate erosion control measures shall be practiced to prevent excessive on-site erosion.

(5) DRAINAGE CONTROL REQUIREMENTS
- ___ (a) Surface water shall be diverted from the operational area.
- ___ (b) Surface water shall not be impounded over or in waste.
- ___ (c) Completed areas shall be adequately sloped to allow surface water runoff in a controlled manner.

(6) VEGETATION REQUIREMENTS
- ___ (a) Within six months after final termination of disposal operations at the site on a major part thereof or upon revocation of a permit, the area shall be stabilized with native grasses.
- ___ (b) Temporary seeding will be utilized as necessary to stabilize the site.

(7) WATER PROTECTION REQUIREMENTS
- ___ (a) The separation distance of four (4) feet between waste and water table shall be maintained unless otherwise specified by the division in the permit.
- ___ (b) Solid waste shall not be disposed of in water.
- ___ (c) Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to the discharge of leachate to surface waters.

(8) ACCESS AND SECURITY REQUIREMENTS
- ___ (a) The site shall be adequately secured by means of gates, chains, berms, fences, and other security measures approved by the division, to prevent unauthorized entry.
- ___ (b) An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- ___ (c) The access road to the site shall be of all-weather construction and maintained in good condition.
- ___ (d) Dust control measures shall be implemented where necessary.

(9) SIGN REQUIREMENTS
- ___ (a) Signs providing information on dumping procedures, the hours during which the site is open for public use, the permit number and other pertinent information shall be posted at the site entrance.
- ___ (b) Signs shall be posted stating that no hazardous or liquid waste can be received without written permission from the division.
- ___ (c) Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

(10) SAFETY REQUIREMENTS
- ___ (a) Open burning of solid waste is prohibited.
- ___ (b) Equipment shall be provided to control accidental fires or arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed.
- ___ (c) Fires that occur at a sanitary landfill shall be reported to the division within 24 hours and a written notification shall be submitted within 15 days.
- ___ (d) The removal of solid waste from a sanitary landfill is prohibited unless the owner/operator approves and the removal is not performed on the working face.
- ___ (e) Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein.

(11) WASTE ACCEPTANCE AND DISPOSAL REQUIREMENTS
- ___ (a) A site shall only accept those solid wastes which it is permitted to receive.
- ___ (b) No hazardous, liquid, or infectious waste shall be accepted or disposed of in a sanitary landfill except as may be approved by the division.
- ___ (c) Spoiled foods, animal carcasses, abattoir waste, hatchery waste and other animal waste delivered to the disposal site shall be covered immediately.
- ___ (d) Asbestos waste that is packaged in accordance with 40 CFR 61, as amended through January 1, 1985, may be disposed of separate and apart from other solid wastes at the bottom of the working face or in an area not contiguous with other disposal areas, in either case, in virgin soil. Separate areas shall be clearly marked so that asbestos is not exposed by future land-disturbing activities. The waste shall be covered immediately with soil in a manner that will not cause airborne conditions. Copies of 40 CFR 61 may be obtained and inspected at the Solid and Hazardous Waste Management Branch, Division of Health Services P. O. Box 2091, Raleigh, NC, 27602.

(12) MISCELLANEOUS REQUIREMENTS
- ___ (a) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin when necessary.
- ___ (b) Appropriate methods such as fencing and diking shall be provided within the area to confine solid waste subject to be blown by the wind. At the conclusion of each day of operation, all windblown material resulting from the operation shall be collected and returned to the area by the owner or operator.

REMARKS: Site in Very good condition.
Note: Check on Fly Ash and Sludge ponds.
Note: Check Plan & Permit for fill limits toward borrow pit

DATE: 6-28-88 NAME: Bill W. Mann
Solid and Hazardous Waste Management Branch

DHS 1769 (Revised 4/88)
Solid & Hazardous Waste Management Branch (Revised 4/88) (white — Raleigh Office yellow — Facility green — Transfer)

T-6243/1

11330/3
NREAD
26 Jun 87

Solid and Hazardous Waste Management Branch
Solid Waste Hydrogeologist
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Sir:

In accordance with instructions in The North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities, we are designating the first day of December as a tentative, annual sampling date for the Base Sanitary Landfill, permit number 67-03.

This year's sampling and analysis for the landfill will be contracted with a certified laboratory.

Should the above date change, your agency will be notified as soon as possible. Point of contact in this matter is Ms. Elizabeth Betz, Natural Resources and Environmental Affairs Division, telephone (919) 451-5977.

Sincerely,

JULIAN I. WOOTEN
Director, Natural Resources Division
By direction of the Commanding General

SAMPLING AND ANALYSIS FOR LANDFILL GROUNDWATER WELLS INVOLVES:

A. the contractor coming aboard Camp Lejeune to take the samples required of the four wells at the Sanitary Landfill,

B. providing all sampling equipment as in bailers, depth probes, field meter, etc,

C. training Natural Resources and Environmental Affairs personnel in the sampling procedures,

D. transporting samples back to the contract laboratory, and

E. analyzing wells and samples for the following parameters:

1. Water Level
2. Arsenic
3. Barium
4. Cadmium
5. Chromium
6. Copper
7. Iron
8. Lead
9. Manganese
10. Mercury
11. Selenium
12. Silver
13. Zinc
14. Nitrate
15. Chloride
16. Fluoride
17. Sulfate
18. Total Dissolved Solids (TDS)
19. Total Organic Carbon (TOC)
20. Biochemical Oxygen Demand (BOD)
21. Chemical Oxygen Demand (COD)
22. Total Organic Halogen (TOX)
23. pH
24. Specific Conductiviy

I E A - telephone quote 6-23-87
Lisa Treadway, Market. Rep.
4 G.W. Monitor. Wells.

Lab analysis, Inorganics $1,400.00
TOC, TOX, etc. #Samples @ $350

Betsy, Here is telephone
quote for Sanitary Landfill
Groundwater monitoring from I.E.A.

Tom

GROUNDWATER MONITORING SYSTEMS, Bob Marschalk
phone quote 6-24-87

Equipment and Instruments to $2,500.00 *
purchase so we can do our
own sampling after 1987.

(over)

*

We need not buy equipment until sometime next calendar year; since IEA would provide them this year.

I & A - telephone quote 6-23-87
Lisa Treadway, Market, Rep.
4 G.W. Monitor. Wells.

Lab analysis, Inorganics $1,400.00
TOC, TOX, etc. #Samples @ $350

Sampling, Eqpt. Rental, Travel expenses 867.50

To train us. 250.00

$2,517.50

GROUNDWATER MONITORING SYSTEMS, Bob Marschalk
phone quote 6-24-87

Equipment and Instruments to $2,500.00 *
purchase so we can do our
own sampling after 1987.

(over)

*

We need not buy equipment until sometime next calendar year; since IEA would provide them this year.

$

140 - 175	teflon bailer (MIP brand) 3' x 2"
$.90/foot	teflon coated wire (s.s.)
$ 37	connector for bailer
$ 12.50/pkg	teflon clip for tying onto line
$ 25	reel
$ 5/pkg 4	caps for wire end
$ 250	Depth probe level meas. device
?	pH, Temp, Conductivity
	.400 X 400

$ 2,000 (about)

(919) 846 - 5227

G W Monitor Systems

Bob Mashchalk

Egypt

Working within

EPA } guidelines
State }

much variability in different companies' price quotes - Some are going in in SCBA gear etc

Service Org.

IEA

monitors

Bob Marschalk, IEA

Lisa Treadaway

Lab analysis 4 samples @ $350 $1400
Inorganic, et. al.

Sampling

$1\frac{1}{2}$ hr per well = 6 hr labor @ $35/hr

travel time 6 hr
mobilization time (prep) 2 hr

14 hr. Sample time

~~140~~
~~35~~ $490

2
35
14
140
35
490

Eqpt

Truck rental @ $50/day	$50
Mileage 250 miles @ 25¢/mile	62.50
4 bailers @ $10 rental	40
Depth probe @ $10 day	10
pH Meter rental } 1 day	15
Conductivity }	25
pH, Cond tests @ $10/well	40
Expendables @ $15/well. gloves, liners, plastics	60
	$302.50

Travel expenses

@ $75/night 1 night $75

Lab Analysis 1400.00
Eqpt
Sample } 867.50
Travel
2267.50
250
$2,517.50

Plus training about $250
but open

6240
NREAD
13 Mar 1985

From: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune
To: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Subj: BASE SANITARY LANDFILL

Encl: (1) 10 NCAC 10G .0106, .0503, .0504 and .0601

1. The enclosure provides changes in existing Division of Health Services regulations applicable to subject landfill. Provisions in the existing landfill permit are still in effect. The enclosure clarifies some provisions of the permit.

2. Regarding 10 NCAC 10G .0106, personnel involved in the collection of refuse or in the receipt of refuse at the landfill should be instructed to promptly report any problems through the chain of command.

3. Regarding 10 NCAC 10G .0505, please review this section carefully and advise this office of any questions or conflicts.

4. Regarding 10 NCAC 10G .0601, four monitoring wells have been installed at the landfill for use in checking groundwater quality. Please advise all personnel working in the area that these wells should not be disturbed. NREAD is responsible for collection of samples and reporting of results to appropriate agencies.

5. Point of contact in this matter is Mr. Danny Sharpe, telephone extensions 5003/2083.

J. I. WOOTEN

Copy to:
AC/S FAC

Blind copy to:
SupvChem

Writer: D. Sharpe, NREAD 5003
Typist: J. Cross 13Mar85

10 NCAC 10G .0106 GENERATOR OF SOLID WASTE; has been adopted as follows:

.0106 GENERATOR OF SOLID WASTE

(a) A solid waste generator shall be responsible for the satisfactory storage, collection and disposal of solid waste.

(b) The solid waste generator shall ensure that his waste is disposed of at a site or facility which is permitted to receive the waste.

History Note: Statutory Authority G.S. 130A-294;
Eff. January 1, 1985.

ENCLOSURE (1)

10 NCAC 10G .0505; OPERATIONAL REQUIREMENTS FOR SANITARY LANDFILLS; has been amended as follows:

Any person who maintains or operates a sanitary landfill site shall maintain and operate the site in conformance with the following practices, unless otherwise specified in the permit:

(1) Plan and Permit Requirements
   (a) Construction plans shall be approved and followed.
   (b) Specified monitoring and reporting requirements shall be met.

(2) Spreading and Compacting Requirements
   (a) Solid waste shall be restricted into the smallest area feasible.
   (b) Solid waste shall be compacted as densely as practical into cells.

(3) Cover Requirements
   (a) Solid waste shall be covered after each day of operation, with a compacted layer of at least six inches of suitable cover or as specified by the division.
   (b) Areas which will not have additional wastes placed on them for 12 months or more shall be covered with a minimum of one foot of intermediate cover.
   (c) After final termination of disposal operations at the site or a major part thereof or upon revocation of a permit, the area shall be covered with at least two feet of suitable compacted earth.

(4) Erosion Control Requirements
   (a) Adequate erosion control measures shall be practiced to prevent silt from leaving the site.
   (b) Adequate erosion control measures shall be practiced to prevent excessive on-site erosion.

(5) Drainage Control Requirements
   (a) Surface water shall be diverted from the operational area.
   (b) Surface water shall not be impounded over or in waste.
   (c) Completed areas shall be adequately sloped to allow surface water runoff in a controlled manner.

(6) Vegetation Requirements
   (a) Within six months after final termination of disposal operations at the site on a major part thereof or upon revocation of a permit, the area shall be stabilized with native grasses.
   (b) Temporary seeding will be utilized as necessary to stabilize the site.

(7) Water Protection Requirements
   (a) The separation distance of four (4) feet between waste and water table shall be maintained unless otherwise specified by the division in the permit.
   (b) Solid waste shall not be disposed of in water.
   (c) Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to the discharge of leachate to surface waters.

(8) Access and Security Requirements

(a) The site shall be adequately secured by means of gates, chains, berms, fences, and other security measures approved by the division, to prevent unauthorized entry.

(b) An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.

(c) The access road to the site shall be of all-weather construction and maintained in good condition.

(d) Dust control measures shall be implemented where necessary.

(9) Sign Requirements

(a) Signs providing information on dumping procedures, the hours during which the site is open for public use, the permit number and other pertinent information shall be posted at the site entrance.

(b) Signs shall be posted stating that no hazardous or liquid waste can be received without written permission from the division.

(c) Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

(10) Safety Requirements

(a) Open burning of solid waste is prohibited.

(b) Equipment shall be provided to control accidental fires or arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed.

(c) Fires that occur at a sanitary landfill shall be reported to the division within 24 hours and a written notification shall be submitted within 15 days.

(d) The removal of solid waste from a sanitary landfill is prohibited unless the owner/operator approves and the removal is not performed on the working face.

(e) Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein.

(11) Waste Acceptance and Disposal Requirements

(a) A site shall only accept those solid wastes which it is permitted to receive.

(b) No hazardous, liquid, or infectious waste shall be accepted or disposed of in a sanitary landfill except as may be approved by the division.

(c) Spoiled foods, animal carcasses, abattoir waste, hatchery waste, and other animal waste delivered to the disposal site shall be covered immediately.

(d) Asbestos waste that is packaged in accordance with 40 CFR 61, as amended through January 1, 1985, may be disposed of separate and apart from other solid wastes at the bottom of the working face or in an area not contiguous with other disposal areas, in either case, in virgin soil. Separate areas shall be clearly marked so that asbestos is not exposed by future land-disturbing activities. The waste shall be covered immediately with soil in a manner that will not cause airborne conditions. Copies of 40 CFR 61 may be obtained and inspected at the Solid & Hazardous Waste Management Branch, Division of Health Services, P.O. Box 2091, Raleigh, N. C., 27602.

(12) Miscellaneous Requirements

(a) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin when necessary.

(b) Appropriate methods such as fencing and diking shall be provided within the area to confine solid waste subject to be blown by the wind. At the conclusion of each day of operation, all windblown material resulting from the operation shall be collected and returned to the area by the owner or operator.

History Note: Statutory Authority G.S. 130A-294;
Eff. April 1, 1982;
Amended Eff. January 1, 1985.

10 NCAC 10G .0503; SITING AND DESIGN REQUIREMENTS FOR DISPOSAL SITES; has been amended by adding new subparagraphs (1)(b)(iii) and (1)(b)(iv) and is further amended in subparagraphs (2)(c)(iii) and (2)(d)(i) as follows:

(iii) A site shall not damage or destroy an archaeological or historical site.

(iv) A site shall not cause an adverse impact on a state park, recreation or scenic area, or any other lands included in the state nature and historic preserve.

(iii) A site shall not cause non-point source pollution of waters of the state that violates assigned water quality standards.

(i) A site shall not contravene groundwater standards as established under 15 NCAC 2L, as amended through January 1, 1985. Copies of 15 NCAC 2L may be obtained from and inspected at the Solid & Hazardous Waste Management Branch, Division of Health Services, P.O. Box 2091, Raleigh, N. C., 27602.

History Note: Statutory Authority G.S. 130A-294;
Eff. April 1, 1982;
Amended Eff. January 1, 1985.

10 NCAC 10G .0504; APPLICATION REQUIREMENTS FOR SANITARY LANDFILLS; has been amended in subparagraphs (1)(a), (1)(b), (1)(c)(i)(E), and (1)(c)(i)(G) and has been further amended by adding new subparagraphs (1)(g)(iv) and (1)(g)(v) as follows:

(a) An aerial photograph (scale 1" = 400 ft. or larger) and a blueprint of the photograph accurately showing the area within one-fourth mile of the proposed site's boundaries with the following specifically identified:

(b) A map (scale 1" = 1000 ft. or larger) showing the area within two miles of the proposed site's boundaries with the following specifically identified:

(E) undisturbed representative geologic sample(s) of the unconfined and/or confined or semiconfined hydrological unit(s) within a depth of 50' that provide the following information for each major lithologic unit(s):

(G) Stratigraphic cross-sections identifying hydrogeological units including lithology.

(iv) A proposed groundwater monitoring plan including well location and schematics showing proposed screened interval, depth and construction.

(v) A more detailed geologic report may be required depending on specifics of the site. This report may be based on physical evidence, initially, or due to information obtained from the site plan application.

History Note: Statutory Authority G.S. 130A-294;
Eff. April 1, 1982;
Amended Eff. January 1, 1985.

10 NCAC 10G .0601; GROUNDWATER MONITORING; has been amended by adding new paragraphs (d), (e), and (f), as follows:

(d) All monitoring wells required pursuant to this Rule must comply with monitoring well construction standards of 15 NCAC 2C .0105., as amended through January 1, 1985. Copies of 15 NCAC 2C may be obtained from and inspected at the Solid & Hazardous Waste Management Branch, Division of Health Services, P.O. Box 2091, Raleigh, N. C., 27602.

(e) A record of well installation must be filed with the division upon completion of the monitoring wells.

(f) Groundwater quality monitoring wells must be constructed of materials and by procedures as approved by the division.

History Note: Statutory Authority G.S. 130A-294;
Eff. April 1, 1982;
Amended Eff. January 1, 1985.

UNITED STATES MARINE CORPS
Natural Resources and Environmental Affairs Division
Marine Corps Base
Camp Lejeune, North Carolina 29542

IN REPLY REFER TO:

6280
NREAD
10 Oct 1984

From: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune
To: Base Maintenance Officer, Marine Corps Base, Camp Lejeune (Attn: Mr. Ron Scales)

Subj: DRINKING WATER QUALITY; SANITARY LANDFILL

Encl: (1) Mr. Ron Scales' memo of 21 Sep 1984

1. NREAD and Preventive Medicine personnel have evaluated the onsite water supply at the Base Landfill as requested by the enclosure. The supply has been determined by Preventive Medicine personnel to be unsatisfactory and appropriate action has been taken by PMU to prevent use of the water for human consumption.

2. It is NREAD's understanding that treated water will be available in the area in the relatively near future due to military construction projects just across Sneads Ferry Road. It is recommended that Base Maintenance determine the feasibility of extending this water to the landfill. In the meantime, bottled water or equivalent should be used.

J. I. WOOTEN

Copy to:
PWO

Blind copy to:
SupvChem

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.

TO: DIRECTOR, NREAD

☐ ACTION	☐ COORDINATE	☐ PREPARE FOR SIGNATURE
☐ AS DISCUSSED	☐ CORRECTION	☐ REPORT BACK
☐ CALL/SEE ME	☐ INFORMATION	☐ RETURN
☐ COMMENT/CLEAR	☐ PREPARE DRAFT	☐

JULIAN:

COULD YOU HAVE ONE OF YOUR WATER QUALITY PEOPLE CHECK THE WATER SOURCE AT THE LANDFILL TO SEE IF THE WATER COMING FROM THE TAP IS CONTAMINATED OR NOT AND LET ME KNOW THE RESULTS. I AM NOT SURE IF THERE IS A PROBLEM OR NOT AT THIS POINT - IT MAY BE NOTHING MORE THAN A HOUSEKEEPING PROBLEM.

Thanks

Ron

FROM: R. E. SCALES
BASE MAINT

DATE 9/21

EXT.

OPNAV 5216/142 (Rev. 5-74) S/N 0107-LF-778-7110 ☆ U.S. Government Printing Office: 1982—505-106/8666 2-1

ENCLOSURE (1)

To D. Betty

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

December 10, 1982

Commanding General
United States Marine Corps
Marine Corps Base
Camp Lejeune, NC 28542
Attn: Asst. Chief of Staff-Facilities

Re: Groundwater monitoring at Camp Lejeune Landfill - Permit #67-03

Dear Sir:

As noted on the approved operational plan of July 20, 1982, four groundwater monitoring wells were to be installed around the site. Condition number 9 of the permit stated that Camp Lejeune would be responsible for sampling and analyses of the wells. I will outline the parameters to be analyzed and sampling procedures below:

The following parameters are to be sampled and analyzed at least annually:

Arsenic	Lead	Nitrate	Color
Barium	Mercury	Fluoride	Iron
Cadmium	Selenium	Chloride	Manganese
Chromium	Silver	Copper	Sulfate

pH	Total Organic Carbon
Total Dissolved Solids	Total Organic Halogen
Zinc	Water Elevation
Conductivity	

Prior to collecting the samples, water elevations should be measured and recorded. The well should then be purged at least 2-3 volumes of the well casing. This is to assure fresh groundwater is being collected. Samples may then be drawn using a PVC bailer and collected in clean plastic containers. Water collected for the total organic halogen analysis should be collected in glass containers which have been properly cleaned.

Between wells the bailer should be thoroughly rinsed in tap water. An even better method of preventing cross-contamination is to use a separate bailer for each well which can then be cleaned back in the lab. This option is at your discretion.

Samples should be iced and transported to the lab for analysis. A chain of custody is not required, unless you feel it is needed for your records.

Samples should be collected and analyzed during the month of April each year and a copy of the results submitted to me as they become available.

If you have any questions concerning this matter, please contact me at (919) 733-2178.

Sincerely,

Gary D. Babb

Gary D. Babb, Geologist
Solid & Hazardous Waste Management Branch
Environmental Health Section

GDB:ns
cc: Danny Sharpe
Raymond L. Church

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

DEPARTMENT OF THE NAVY

Memorandum

DATE: 18 November 1982

FROM: Ms. Betz, Quality Control Lab, Environmnt Branch, NREAD

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Branch, NREAD

SUBJ: Sanitary Landfill

1. On 12 November 1982, Gaines Huneycutt and Bob Lachapelle collected the weekly landfill samples. Below is some data provided for your information.

2. Cogdels Creek, behind the landfill(C-2) had an unusally high BOD reading of 6.0 mg/1. The initial dissolved oxygen was low at 0.5 mg/1.

3. Since c November 1981 until present (excluding 12 Nov 1982 reading) there were 40 dissolved oxygen readings ranging from 0.4 to 9.5ppm with an average of 3.8ppm. There were also 39 BOD readings ranging from 0.2 to 4.3ppm withan average of 1.4ppm BOD

4. The last time the readings were this high was during the summer of 1980.

Elizabeth A. Betz
Supervisory Chemist

BEFORE
1 DECEMBER 1979

Betsy - Place this in your file(s) on Chem. Landfill analyses -

UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

Copy to Sharpe
Danny
MCB Camp Lejeune
N2EA

IN REPLY REFER TO
MAIN/JIW/th
6240
24 Jan 1979

from LANTDIV Code 114

From: Commanding General
To: Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia 23511 (Code 114)

Subj: Chemical and solid waste landfills; well water samples from

Ref: (a) LantDiv ltr 114:PPC 6280 of 7 Sep 78

Encl: (1) Test Well Map
(2) Well Depths

1. As requested in reference (a), subject water samples have been collected by Base Maintenance Department personnel and are forwarded for your chemical analysis. Bottle numbers can be correlated with test well numbers on enclosure (1). Test well data is forwarded as enclosure (2).

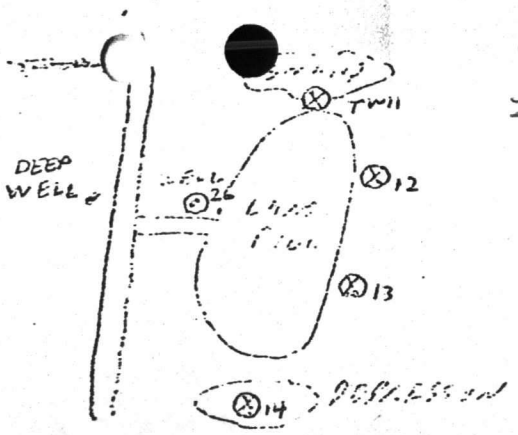
B W Elston
B. W. ELSTON
By direction

WELL DEPTHS

Wells	Depth from Surface to Water
TW11	6"
TW12	10'
TW13	12'
TW14	Less than 5'
TW15	Estimated 5'
TW16	3'
TW17	Uncollected (Could not Pump)
TW18	3'
TW19	5 1/2'
TW20	Estimated 4'
TW21	4'
TW22	21'
TW23	3'
TW24	Estimated 20'
TW25	Greater than 25 (Unknown)
TW26	Greater than 25 (Unknown)

ENCLOSURE (2)

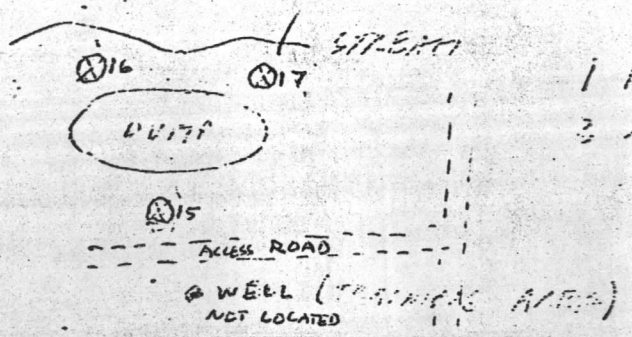
MAIN LANDFILL
(SNEADS FERRY ROAD)



Landfill

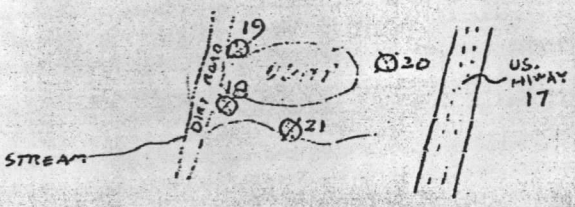
2 EXISTING WELLS (0)
4 NEW WELLS
5 SAMPLES

HAZARDOUS WASTES DUMP
(NEAR VIETNAM VILLAGE)



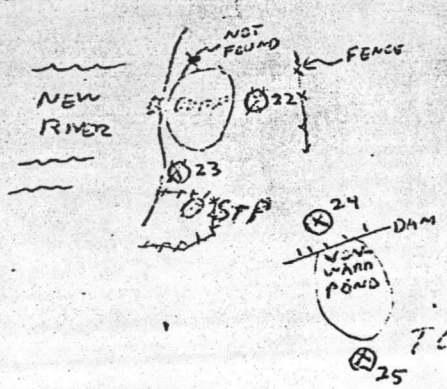
1 EXISTING WELL
3 NEW WELLS
3 SAMPLES
(ONE NOT FOUND)

MCAS DUMP:
(OLD CAMP GEIGER)



4 NEW WELLS
4 SAMPLES

ABANDONED BURN DUMP
(NEAR HADNOT POINT SEWAGE TREATMENT PLANT)



1 EXISTING WELL
3 NEW WELLS
4 SAMPLES

TOTAL: 3 EXISTING WELLS
14 NEW WELLS x
17 SAMPLES (PER YEAR)

x $2,000 = $7,000

SKETCH MAP REVISED
1-79
A.T. LUKE

ENCLOSURE 1

LABORA(Y MULTIPLE PARAMETER WATER QUAI ITY AN(IS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-11

LABORATORY NAME: MCB Camp Lejeune

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L	70300	248.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	MG/L	00620	0.015.
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N. (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.20
NON-CATEGORIZED PARAMETER	CHLORIDE	MG/L	00940	13.60
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	MG/L	00310	19.4
NON-CATEGORIZED PARAMETER	COD	MG/L	00340	105.17
NON-CATEGORIZED PARAMETER	TOC	MG/L	00680	5.0
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		2.40
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

NOTE:

W. A. Jennings, Jr

DATE: 2-15-79

#1062-2-9-79

72

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-12 1:45 PM

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530		ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500		ARSENIC, TOTAL	MG/L	01002		
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545		CADMIUM, TOTAL	MG/L	01027		
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	70.0	CHROMIUM, TOTAL	MG/L	01034		
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610		COPPER, TOTAL	MG/L	01042		
	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.05	IRON, TOTAL	MG/L	01045		
	N-NITRITE TOTAL (AS N)	MG/L	00615		LEAD, TOTAL	MG/L	01051		
	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL	MG/L	00927		
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660		MANGANESE, TOTAL	MG/L	01055		
	TOTAL PHOSPHORUS (AS P)	MG/L	00678		MERCURY, TOTAL	MG/L	71900		
	SULFATE	MG/L	00945		POTASSIUM, TOTAL	MG/L	00937		
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.30	SILVER, TOTAL	MG/L	01077		
	CHLORIDE	X MG/L	00940	4.0	ZINC, TOTAL	MG/L	01092		
	TURBIDITY LAB	JTU/FTU	W0072		TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
	BOD	X MG/L	00310	6.0	FECAL COLIFORM	MFC/100ML	31616		
	COD	X MG/L	00340	33.99	TOTAL COLIFORM	MPN/100ML	31506		
	TOC	X MG/L	00680	3.2	FECAL COLIFORM	MPN/100ML	31620		
	OIL AND GREASE	MG/L	70350		Organic Nitrogen	X		3.0	ADDITIONAL PARAMETERS
	PHENOLS	MG/L	32730						
	VBAS	MG/L	38260						
	CYANIDE	MG/L	00720						

REMARKS

W. H. Jennings, Jr.

DATE: 2-15-79

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LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

5ND LANTDIV 9-11330/3 (4-75)

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SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-13

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L	70300	40.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	MG/L	00620	0.41
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.75
	CHLORIDE	MG/L	00940	8.20
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	MG/L	00310	8.0
	COD	MG/L	00340	27.68
	TOC	MG/L	00680	3.8
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	MG/L	01027	
	CHROMIUM, TOTAL	MG/L	01034	
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	MG/L	01051	
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		2.28

W. H. Jennings Jr.

DATE: 2-15-79

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LABORAT[illegible] MULTIP[illegible]ARAMETER WATER QUALITY ANA[illegible]S RECO[illegible]

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5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-14 300 PM

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	244.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.475
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.21
NON-CATEGORIZED PARAMETER	CHLORIDE	X MG/L	00940	28.99
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	X MG/L	00310	315.0
NON-CATEGORIZED PARAMETER	COD	X MG/L	00340	518.45
NON-CATEGORIZED PARAMETER	TOC	X MG/L	00680	14.8
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.76
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

NAME: W. H. Lennings, Jr.

DATE: 2-15-79

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5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-15

LABORATORY NAME:

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530		ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500		ARSENIC, TOTAL	MG/L	01002		HEAVY METALS
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545		CADMIUM, TOTAL	~~MG/L~~	01027	< 0.005	8
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	~~MG/L~~	70300	80.0	CHROMIUM, TOTAL	~~MG/L~~	01034	0.02	8
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610		COPPER, TOTAL	MG/L	01042		HEAVY METALS
NUTRIENTS	N-NITRATE TOTAL (AS N)	~~MG/L~~	00620	0.37	IRON, TOTAL	MG/L	01045		HEAVY METALS
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615		LEAD, TOTAL	~~MG/L~~	01051	< 0.005	12
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL	MG/L	00927		HEAVY METALS
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660		MANGANESE, TOTAL	MG/L	01055		HEAVY METALS
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678		MERCURY, TOTAL	MG/L	71900		HEAVY METALS
NUTRIENTS	SULFATE	MG/L	00945		POTASSIUM, TOTAL	MG/L	00937		HEAVY METALS
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.90	SILVER, TOTAL	MG/L	01077		HEAVY METALS
NON-CATEGORIZED PARAMETER	CHLORIDE	MG/L	00940		ZINC, TOTAL	MG/L	01092		HEAVY METALS
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072		TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
NON-CATEGORIZED PARAMETER	BOD	~~MG/L~~	00310	40.0	FECAL COLIFORM	MFC/100ML	31616		COLIFORM
NON-CATEGORIZED PARAMETER	COD	~~MG/L~~	00340	134.69	TOTAL COLIFORM	MPN/100ML	31506		COLIFORM
NON-CATEGORIZED PARAMETER	TOC	~~MG/L~~	00680	7.8	FECAL COLIFORM	MPN/100ML	31620		COLIFORM
NON-CATEGORIZED PARAMETER	OIL AND GREASE	~~MG/L~~	70350	1.0	Organic Nitrogen	X		6.84	ADDITIONAL PARAMETERS 12.5
NON-CATEGORIZED PARAMETER	PHENOLS	~~MG/L~~	32730	< 0.005					ADDITIONAL PARAMETERS
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260						ADDITIONAL PARAMETERS
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720						ADDITIONAL PARAMETERS

REMARKS:

W. H. Gennings Jr. DATE 2-15-79

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LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

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5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-16

LABORATORY NAME:

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530		ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500		ARSENIC, TOTAL	MG/L	01002		
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545		CADMIUM, TOTAL	~~MG/L~~	01027	< 0.005	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	~~MG/L~~	70300	130.0	CHROMIUM, TOTAL	~~MG/L~~	01034	0.08	
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610		COPPER, TOTAL	MG/L	01042		
	N-NITRATE TOTAL (AS N)	~~MG/L~~	00620	0.04	IRON, TOTAL	MG/L	01045		
	N-NITRITE TOTAL (AS N)	MG/L	00615		LEAD, TOTAL	~~MG/L~~	01051	0.215	
	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL	MG/L	00927		
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660		MANGANESE, TOTAL	MG/L	01055		
	TOTAL PHOSPHORUS (AS P)	MG/L	00678		MERCURY, TOTAL	MG/L	71900		
	SULFATE	MG/L	00945		POTASSIUM, TOTAL	MG/L	00937		
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.2	SILVER, TOTAL	MG/L	01077		
	CHLORIDE	MG/L	00940		ZINC, TOTAL	MG/L	01092		
	TURBIDITY LAB	JTU/FTU	W0072		TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
	BOD	~~MG/L~~	00310	32.0	FECAL COLIFORM	MFC/100ML	31616		
	COD	~~MG/L~~	00340	215.87	TOTAL COLIFORM	MPN/100ML	31506		
	TOC	~~MG/L~~	00680	12.4	FECAL COLIFORM	MPN/100ML	31620		
	OIL AND GREASE	~~MG/L~~	70350	< 1.0	Organic Nitrogen	X		8.36	ADDITIONAL PARAMETERS
	PHENOLS	~~MG/L~~	32730	< 0.005					
	MBAS	MG/L	38260						
	CYANIDE	MG/L	00720						

W.H. Jennings Jr.

DATE 2-15-79

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LABOR[illegible]Y MU[illegible]LE PARAMETER WATER QUALITY AN[illegible]IS [illegible]RD

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5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-18 115 PM

LABORATORY NAME: MCB Camp Lejeune

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	~~MG/L~~	70300	392.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	~~MG/L~~	00620	0.065
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.16
NON-CATEGORIZED PARAMETER	CHLORIDE	~~MG/L~~	00940	57.58
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	~~MG/L~~	00310	10.0
NON-CATEGORIZED PARAMETER	COD	~~MG/L~~	00340	75.65
NON-CATEGORIZED PARAMETER	TOC	~~MG/L~~	00680	8.0
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
ALUMINUM, TOTAL	MG/L	01105	
ARSENIC, TOTAL	MG/L	01002	
CADMIUM, TOTAL	MG/L	01027	
CHROMIUM, TOTAL	MG/L	01034	
COPPER, TOTAL	MG/L	01042	
IRON, TOTAL	MG/L	01045	
LEAD, TOTAL	MG/L	01051	
MAGNESIUM, TOTAL	MG/L	00927	
MANGANESE, TOTAL	MG/L	01055	
MERCURY, TOTAL	MG/L	71900	
POTASSIUM, TOTAL	MG/L	00937	
SILVER, TOTAL	MG/L	01077	
ZINC, TOTAL	MG/L	01092	
TOTAL COLIFORM	MFC/100ML	31503	
FECAL COLIFORM	MFC/100ML	31616	
TOTAL COLIFORM	MPN/100ML	31506	
FECAL COLIFORM	MPN/100ML	31620	
Organic Nitrogen	X		3.44

HEAVY METALS

COLIFORM

ADDITIONAL PARAMETERS

W. H. Jennings Jr.

DATE 2-15-79

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LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

5ND LANTDIV 9-11330/3 (4-75)

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SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-19 1300 PM

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X MG/L	70300	104.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	X MG/L	00620	0.16
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.8
	CHLORIDE	X MG/L	00940	4.0
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	X MG/L	00310	11.0
	COD	X MG/L	00340	57.20
	TOC	X MG/L	00680	7.4
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	MG/L	01027	
	CHROMIUM, TOTAL	MG/L	01034	
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	MG/L	01051	
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.52

W. H. Fennings Jr.

DATE: 2-15-79

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LABORA[illegible]Y MULTIPLE PARAMETER WATER QUALITY AN[illegible] IS RECORD

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
IIND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

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SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-20 200 pm

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	60.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	MG/L X	00620	0.04
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	5.03
NON-CATEGORIZED PARAMETER	CHLORIDE	MG/L X	00940	4.5
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	MG/L X	00310	36.0
NON-CATEGORIZED PARAMETER	COD	MG/L X	00340	166.67
NON-CATEGORIZED PARAMETER	TOC	MG/L X	00680	10.5
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		4.76
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
A5001

SIGNATURE: W. H. Fennings Jr.

DATE: 2-15-79

#1168 2-9-79

72.50

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
IIND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TN-21 215 pm

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	150.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	MG/L X	00620	<0.01
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	6.6
NON-CATEGORIZED PARAMETER	CHLORIDE	MG/L X	00940	10.5
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	#0072	
NON-CATEGORIZED PARAMETER	BOD	MG/L X	00310	18.4
NON-CATEGORIZED PARAMETER	COD	MG/L X	00340	50.81
NON-CATEGORIZED PARAMETER	TOC	MG/L X	00680	7.0
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
HEAVY METALS	ARSENIC, TOTAL	MG/L	01002	
HEAVY METALS	CADMIUM, TOTAL	MG/L	01027	
HEAVY METALS	CHROMIUM, TOTAL	MG/L	01034	
HEAVY METALS	COPPER, TOTAL	MG/L	01042	
HEAVY METALS	IRON, TOTAL	MG/L	01045	
HEAVY METALS	LEAD, TOTAL	MG/L	01051	
HEAVY METALS	MAGNESIUM, TOTAL	MG/L	00927	
HEAVY METALS	MANGANESE, TOTAL	MG/L	01055	
HEAVY METALS	MERCURY, TOTAL	MG/L	71900	
HEAVY METALS	POTASSIUM, TOTAL	MG/L	00937	
HEAVY METALS	SILVER, TOTAL	MG/L	01077	
HEAVY METALS	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
COLIFORM	FECAL COLIFORM	MFC/100ML	31616	
COLIFORM	TOTAL COLIFORM	MPN/100ML	31506	
COLIFORM	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.76
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				
ADDITIONAL PARAMETERS				

REMARKS
49001

SIGNATURE: W. H. Jennings, Jr.

DATE: 2-16-79

#1069 2-9-79

72.50

LABORAT(MULT PARAMETER WATER QUALITY ANAL(S REC

UIC

5ND LANTDIV 9-11330/3 (4-75)

ACTIVITY NAME: TW-22

LABORATORY NAME: MCB Camp Lejeune

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530		ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500		ARSENIC, TOTAL	MG/L	01002		
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545		CADMIUM, TOTAL	MG/L	01027		
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	290.0	CHROMIUM, TOTAL	MG/L	01034		
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610		COPPER, TOTAL	MG/L	01042		
	N-NITRATE TOTAL (AS N)	MG/L X	00620	0.013	IRON, TOTAL	MG/L	01045		
	N-NITRITE TOTAL (AS N)	MG/L	00615		LEAD, TOTAL	MG/L	01051		
	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL	MG/L	00927		
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660		MANGANESE, TOTAL	MG/L	01055		
	TOTAL PHOSPHORUS (AS P)	MG/L	00678		MERCURY, TOTAL	MG/L	71900		
	SULFATE	MG/L	00945		POTASSIUM, TOTAL	MG/L	00937		
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.13	SILVER, TOTAL	MG/L	01077		
	CHLORIDE	MG/L X	00940	15.88	ZINC, TOTAL	MG/L	01092		
	TURBIDITY LAB	JTU/FTU	W0072		TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
	BOD	MG/L X	00310	16.0	FECAL COLIFORM	MFC/100ML	31616		
	COD	MG/L X	00340	85.37	TOTAL COLIFORM	MPN/100ML	31506		
	TOC	MG/L X	00680	5.8	FECAL COLIFORM	MPN/100ML	31620		
	OIL AND GREASE	MG/L	70350		Organic Nitrogen	X		2.65	ADDITIONAL PARAMETERS
	PHENOLS	MG/L	32730						
	MBAS	MG/L	38260						
	CYANIDE	MG/L	00720						

MARK

C.W.H. Jennings Jr.

DATE 2-15-79

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LABORAT(MULTIPLE PARAMETER WATER QUALITY ANAL(S RE D

5ND LANTDIV 9-11330/3 (4-75)

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-23

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X	70300	758.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	X	00620	<0.01
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.32
	CHLORIDE	X	00940	409.80
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	X	00310	24.0
	COD	X	00340	69.11
	TOC	X	00680	6.0
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	MG/L	01027	
	CHROMIUM, TOTAL	MG/L	01034	
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	MG/L	01051	
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		3.18

NAME: W. H. Downing Jr.

DATE: 2-15-79

1071 2-9-79

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LABORA Y MULTIPLE PARAMETER WATER QUALITY ANA IS RECORD

UIC

5ND LANTDIV 9-11330/3 (4-75)

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-24

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
SOLIDS	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
SOLIDS	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
SOLIDS	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	~~MG/L~~	70300	162.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
NUTRIENTS	N-NITRATE TOTAL (AS N)	~~MG/L~~	00620	0.014
NUTRIENTS	N-NITRITE TOTAL (AS N)	MG/L	00615	
NUTRIENTS	TOTAL N (KJELDAHL)	MG/L	00625	
NUTRIENTS	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
NUTRIENTS	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
NUTRIENTS	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.14
NON-CATEGORIZED PARAMETER	CHLORIDE	~~MG/L~~	00940	22.99
NON-CATEGORIZED PARAMETER	TURBIDITY LAB	JTU/FTU	W0072	
NON-CATEGORIZED PARAMETER	BOD	~~MG/L~~	00310	52.0
NON-CATEGORIZED PARAMETER	COD	~~MG/L~~	00340	241.87
NON-CATEGORIZED PARAMETER	TOC	~~MG/L~~	00680	8.8
NON-CATEGORIZED PARAMETER	OIL AND GREASE	MG/L	70350	
NON-CATEGORIZED PARAMETER	PHENOLS	MG/L	32730	
NON-CATEGORIZED PARAMETER	MBAS	MG/L	38260	
NON-CATEGORIZED PARAMETER	CYANIDE	MG/L	00720	

PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
ARSENIC, TOTAL	MG/L	01002		HEAVY METALS
CADMIUM, TOTAL	MG/L	01027		HEAVY METALS
CHROMIUM, TOTAL	MG/L	01034		HEAVY METALS
COPPER, TOTAL	MG/L	01042		HEAVY METALS
IRON, TOTAL	MG/L	01045		HEAVY METALS
LEAD, TOTAL	MG/L	01051		HEAVY METALS
MAGNESIUM, TOTAL	MG/L	00927		HEAVY METALS
MANGANESE, TOTAL	MG/L	01055		HEAVY METALS
MERCURY, TOTAL	MG/L	71900		HEAVY METALS
POTASSIUM, TOTAL	MG/L	00937		HEAVY METALS
SILVER, TOTAL	MG/L	01077		HEAVY METALS
ZINC, TOTAL	MG/L	01092		HEAVY METALS
TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
FECAL COLIFORM	MFC/100ML	31616		COLIFORM
TOTAL COLIFORM	MPN/100ML	31506		COLIFORM
FECAL COLIFORM	MPN/100ML	31620		COLIFORM
Organic Nitrogen	X		1.76	ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS
				ADDITIONAL PARAMETERS

W. H. Jennings, Jr.

DATE 2-15-79

1072 2-9-79

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LABORA[illegible] / MULT[illegible] PARAMETER WATER QUALITY ANA[illegible] IS RE[illegible]

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
1IND-CBC-3900/2 (REV. 10-74)
0900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-25

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530		ALUMINUM, TOTAL	MG/L	01105		HEAVY METALS
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500		ARSENIC, TOTAL	MG/L	01002		
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545		CADMIUM, TOTAL	MG/L	01027		
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L X	70300	176.0	CHROMIUM, TOTAL	MG/L	01034		
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610		COPPER, TOTAL	MG/L	01042		
	N-NITRATE TOTAL (AS N)	MG/L X	00620	<0.01	IRON, TOTAL	MG/L	01045		
	N-NITRITE TOTAL (AS N)	MG/L	00615		LEAD, TOTAL	MG/L	01051		
	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL	MG/L	00927		
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660		MANGANESE, TOTAL	MG/L	01055		
	TOTAL PHOSPHORUS (AS P)	MG/L	00678		MERCURY, TOTAL	MG/L	71900		
	SULFATE	MG/L	00945		POTASSIUM, TOTAL	MG/L	00937		
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.80	SILVER, TOTAL	MG/L	01077		
	CHLORIDE	MG/L X	00940	7.50	ZINC, TOTAL	MG/L	01092		
	TURBIDITY LAB	JTU/FTU	W0072		TOTAL COLIFORM	MFC/100ML	31503		COLIFORM
	BOD	MG/L X	00310	9.2	FECAL COLIFORM	MFC/100ML	31616		
	COD	MG/L X	00340	28.46	TOTAL COLIFORM	MPN/100ML	31506		
	TOC	MG/L X	00680	5.2	FECAL COLIFORM	MPN/100ML	31620		
	OIL AND GREASE	MG/L	70350		Organic Nitrogen	X		1.76	ADDITIONAL PARAMETERS
	PHENOLS	MG/L	32730						
	MBAS	MG/L	38260						
	CYANIDE	MG/L	00720						

REMARKS
A9001

SIGNATURE: W. H. Jennings Jr.

DATE: 2-15-79

#1073 2-9-79

9250

LABORA[illegible] MULT[illegible] PARAMETER WATER QUALITY ANA[illegible] S REC[illegible]

NAVY ENVIRONMENTAL PROTECTION SUPPORT SERVICE
1IND-CBC-3900/2 (REV. 10-74)
0300-LL-M90-C002

UIC

SAMPLE IDENTIFICATION				
SAMPLE COLLECTION DATE			SAMPLE COLLECTION TIME	SAMPLE STATION NUMBER
MONTH	DAY	YEAR	0-2400	

ACTIVITY NAME: TW-26

LABORATORY NAME: MCB Camp Lejeune

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	
	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/L/HR	00545	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X/L	70300	138.0
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	
	N-NITRATE TOTAL (AS N)	X/L	00620	<0.01
	N-NITRITE TOTAL (AS N)	MG/L	00615	
	TOTAL N (KJELDAHL)	MG/L	00625	
	ORTHOPHOSPHATE (AS PO_4)	MG/L	00660	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	
	SULFATE	MG/L	00945	
NON-CATEGORIZED PARAMETER	PH LABORATORY	X	00403	7.70
	CHLORIDE	X/L	00940	8.0
	TURBIDITY LAB	JTU/FTU	W0072	
	BOD	X/L	00310	11.0
	COD	X/L	00340	30.49
	TOC	X/L	00680	6.5
	OIL AND GREASE	MG/L	70350	
	PHENOLS	MG/L	32730	
	MBAS	MG/L	38260	
	CYANIDE	MG/L	00720	

	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
HEAVY METALS	ALUMINUM, TOTAL	MG/L	01105	
	ARSENIC, TOTAL	MG/L	01002	
	CADMIUM, TOTAL	MG/L	01027	
	CHROMIUM, TOTAL	MG/L	01034	
	COPPER, TOTAL	MG/L	01042	
	IRON, TOTAL	MG/L	01045	
	LEAD, TOTAL	MG/L	01051	
	MAGNESIUM, TOTAL	MG/L	00927	
	MANGANESE, TOTAL	MG/L	01055	
	MERCURY, TOTAL	MG/L	71900	
	POTASSIUM, TOTAL	MG/L	00937	
	SILVER, TOTAL	MG/L	01077	
	ZINC, TOTAL	MG/L	01092	
COLIFORM	TOTAL COLIFORM	MFC/100ML	31503	
	FECAL COLIFORM	MFC/100ML	31616	
	TOTAL COLIFORM	MPN/100ML	31506	
	FECAL COLIFORM	MPN/100ML	31620	
ADDITIONAL PARAMETERS	Organic Nitrogen	X		5.6

REMARKS
[illegible]

SIGNATURE: W. H. Jennings Jr.

DATE: 2-15-79

#1074 2-9-79

92 52

OPNAV 5216/144 (REV. 6-70)
S/N 0107-LF-778-8097

DEPARTMENT OF THE NAVY

Memorandum

DATE: 22 Jan 79

FROM: Quality Control Lab

TO: Mr. Wooten. NREAD

SUBJ: Test Well Samples

1. Enclosed is a draft (sZmple) letter to be sent ot land Div, NAVFAC for the test wells.

2. The Bottles are ready to be mailed to Norfolk.

Wallace Eakes

Draft letter
Sample

BASE MAINTENCANCE DEPT.
MARINCE CORP BASE
CAMP LEJEUNE, N.C.

22 Jan 79

From: Base Maint. Officer

To: Commander, Atlantic Division Naval Facilities Engineering Command , Attn. Mr. Pete Cunanan

Subj: Leachate from Solid Waste and Chemical landfulls, Monitoring of

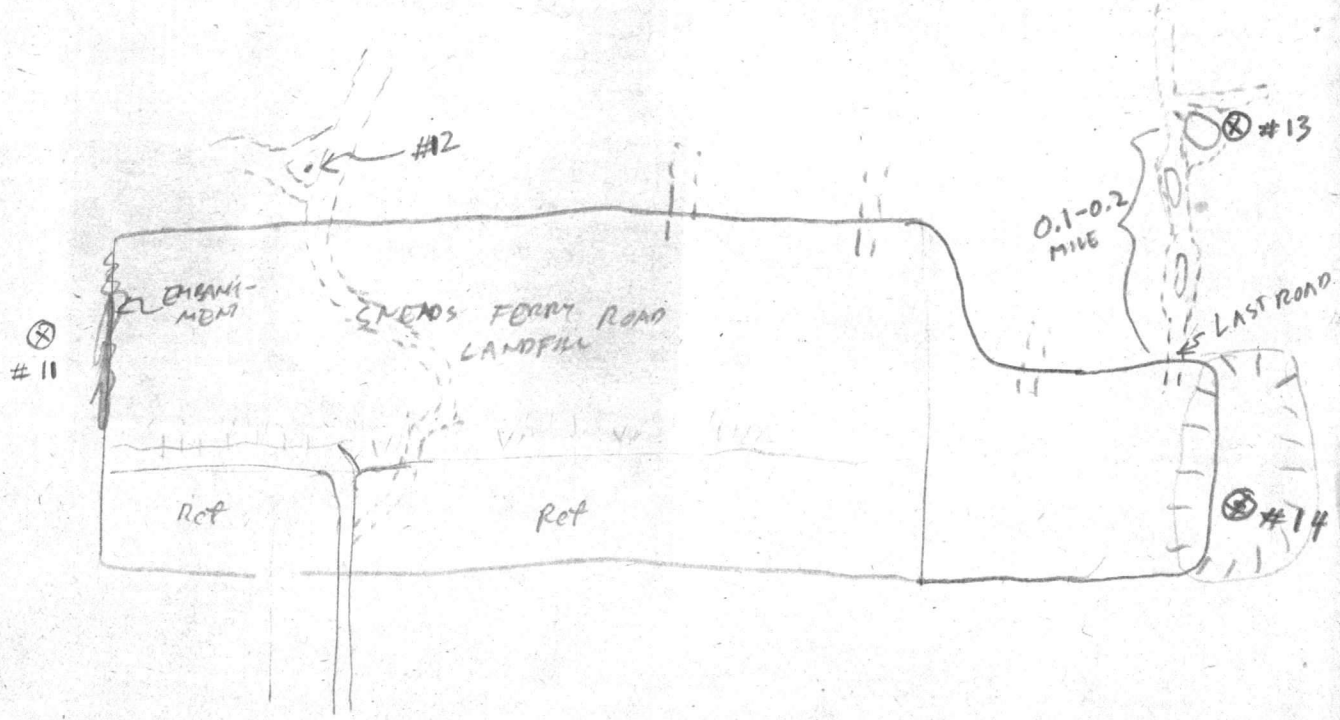
Rèf: (a) letter 114:PPC, 6280 of 7 Sep 1978

Encl: (1) Test Well Map and well depths

1. Reference (a) requewt locations and samples of test wells around subject dumps to be forwareded to your Command. Enclosure (1) shows locations of the test wells in the four areas of the Base — Land Fill, Hazardous Waste Dump, MCAS Dump, and Abandonded Burn Dump. The test wells have beeh assigned numbers starting with TW ~~101.~~ 11

2. Forwared toyour command as requewted in reference (a) in a seperate carton are the one litter samples from each well. No perservatives or additives have been added to the samples

Sincerely


#12
#13
0.1-0.2 MILE
EMBANK-MENT
SNEADS FERRY ROAD LANDFILL
LAST ROAD
#11
Ref
Ref
#14

93A 16 JAN

~~#11 - unable to get cap off.~~

#12 - approx 10 ft deep. lots of water

#13 - approx 12 ft deep.

#14 - shallow (less than 3 feet) slightly effervescent water. STINX!!

---

17 JAN

#11 - Before drain, 1 ft above good level
After drain, the same. 1000 AM

#15 angle in pipe (5 feet deep?)
11 AM

#16 3 feet deep.
Very little water 12 Noon

#17 PIPE IS ~23 feet deep.
WATER DRAWN TO w/in 2 feet of surface,
but no sample obtainable

#18 NO CAP ON PIPE
3 feet deep

#19 5½ feet deep. LOTSA WATER

#20 depth indeterminate. RIGHT ANGLE BENDS IN PIPE
(maybe 4 feet?)

#21 4 feet deep.

---

16 JAN 79

#25 LARGE
PUMPHOUSE NEAR FISH POND.
DEPTH GREATER THAN 25 FEET(?)
USED TO SUPPLY WATER TO POND.
130 PM

#22 (215PM)
21 feet deep. BY STP FENCE

#23 3 feet deep (230PM) BY RIVER
IN BEND OF
OUTFALL PIPES

#24 SMALL PUMPHOUSE AT FOOT OF EARTHEN DAM.
PUMP INOPERATIVE. NO SAMPLE

#26 WELL FOR FILLING TRUCKS at LANDFILL

---

19 JAN 79

#24 SAMPLE TAKEN w/HELP FROM PLUMBER SHOP

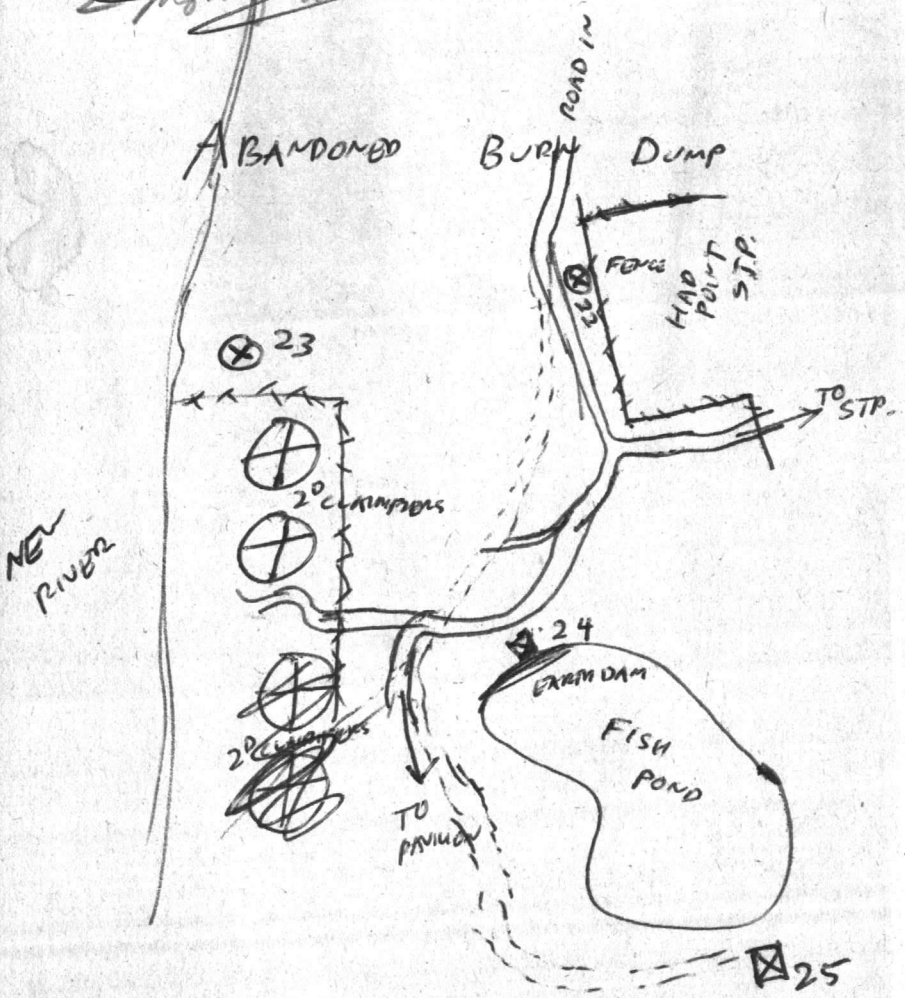
~~next time, bring~~ ---

paper towels

5-gal bucket

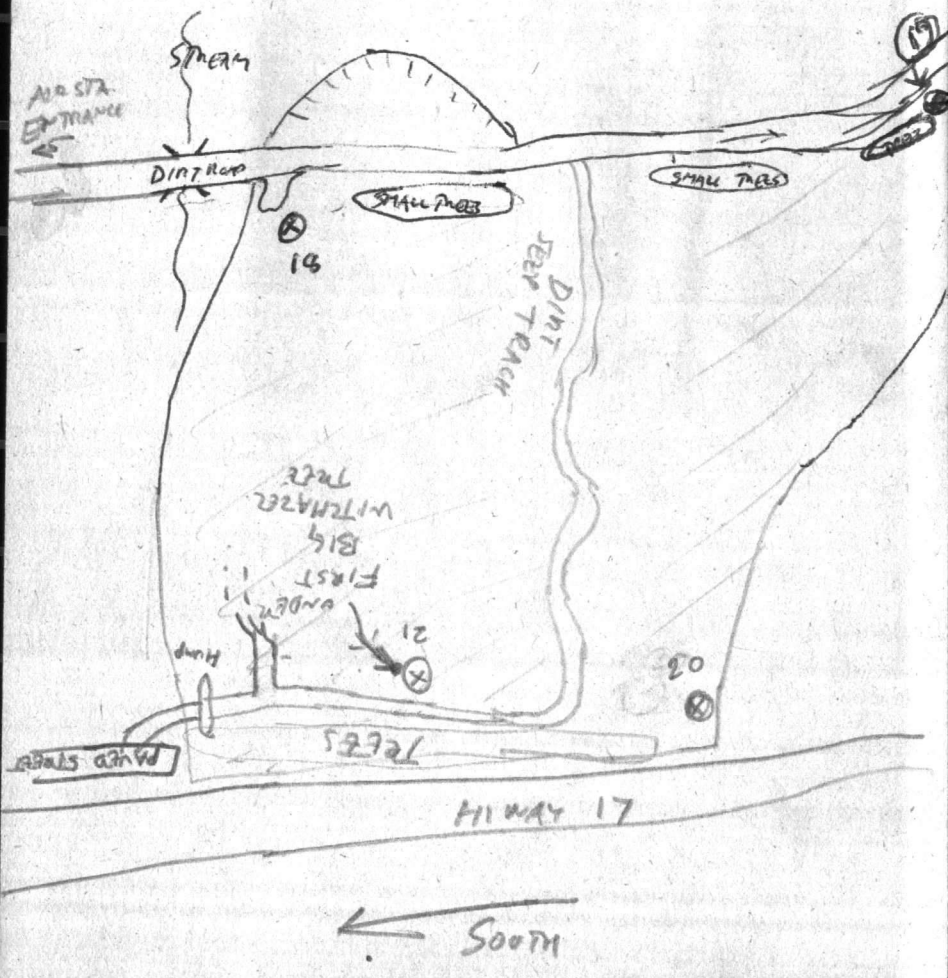
depth finder

2 monkey wrenches

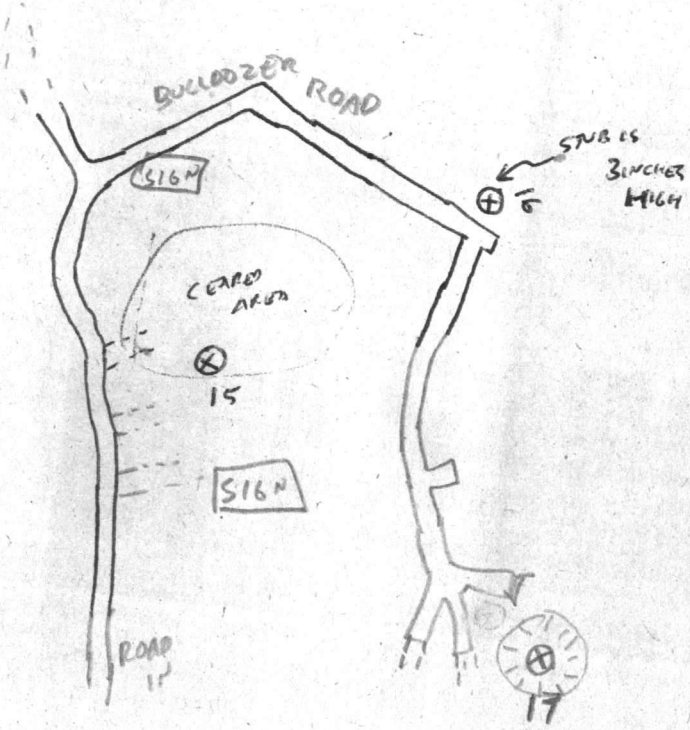


OLD CAMP GEIGER (AIR STA) DUMP

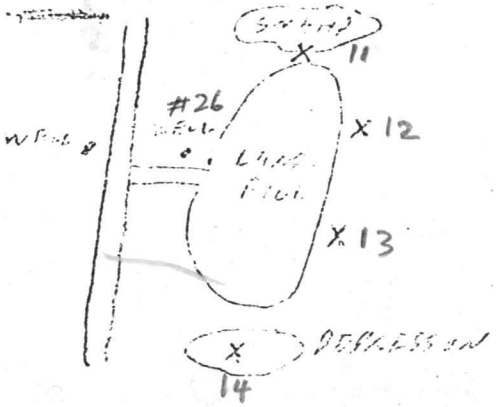
71



HAZ WASTE DUMP



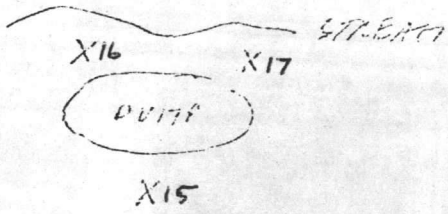
LANDFARM



2 EXISTING WELLS (0)
4 NEW WELLS

5 SAMPLES

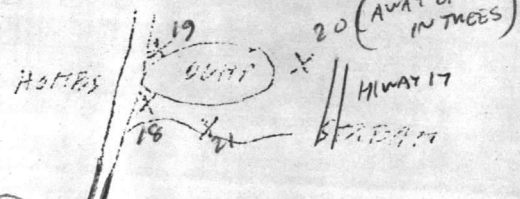
HAZARDOUS WASTES DUMP:



1 EXISTING WELL
3 NEW WELLS
3 SAMPLES

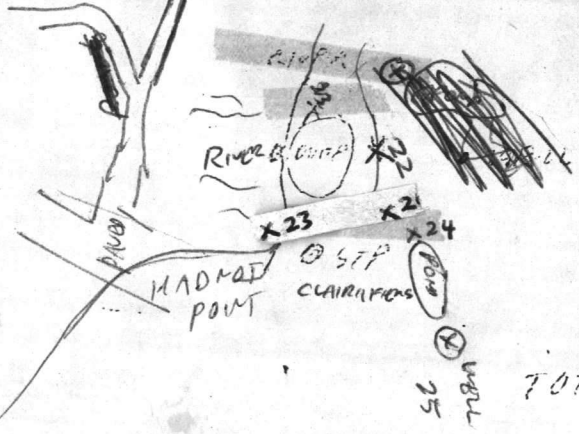
0 WELL (TRAINING AREA)

MCAS DUMP:



4 NEW WELLS
4 SAMPLES

ABANDONED BURN DUMP:

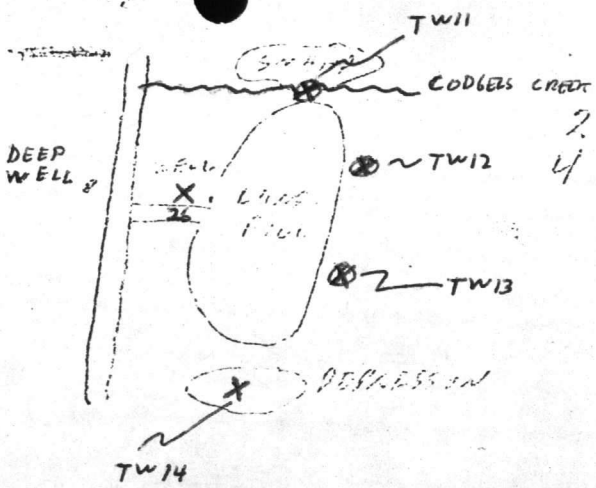


1 EXISTING WELL
3 NEW WELLS
4 SAMPLES

TOTAL: 3 EXISTING WELLS
14 NEW WELLS*
~~17~~ 15 SAMPLES (PER YEAR)

* $2,000 TO $7,000

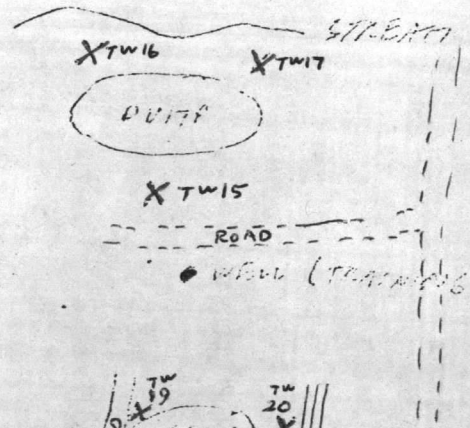
LANDFILL



2 EXISTING WELLS (O)
4 NEW WELLS

5 SAMPLES

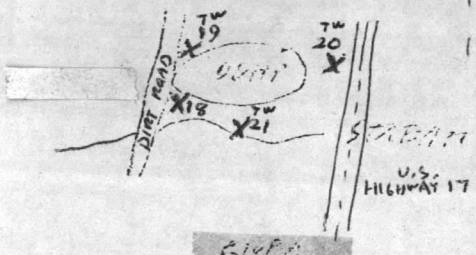
HAZARDOUS WASTES DUMP:



1 EXISTING WELL
3 NEW WELLS

3 SAMPLES

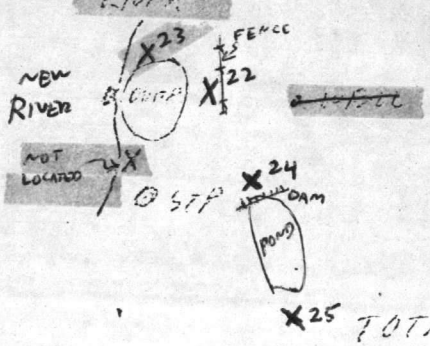
MCAS DUMP:



4 NEW WELLS

4 SAMPLES

ABANDONED BURN DUMP:



1 EXISTING WELL
3 NEW WELLS

4 SAMPLES

TOTAL: 3 EXISTING WELLS
14 NEW WELLS*

15 ~~17~~ SAMPLES (PER YEAR)

* ~$2,000 TO $7,000

2-R-6

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313
AUTOVON 690-7313
IN REPLY REFER TO:
114:PPC
6280
7 SEP 1978

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune

Subj: Leachate from solid waste and chemical landfills; monitoring of

Ref: (a) 40 CFR 241, Guidelines for Land Disposal of Solid Waste
(b) 40 CFR 257, Criteria for Classification of Solid Waste Disposal Facilities
(c) FONECON MARCORB CAMP LEJEUNE (Mr. J. Wooten)/LANTNAVFACENGCOM (Mr. P. Cunanan) on 18 Aug 1978

1. References (a) and (b) require that land disposal facilities be designed, constructed and operated in a manner to protect groundwater from leachate contamination. In the Camp Lejeune area, groundwater is used extensively as a potable water source. Thus, current land disposal facilities should be monitored to indicate, as early as possible, any movement of contaminants from either disposal facility into the groundwater. Monitoring is necessary to evaluate either the potential danger to or the impact on groundwater quality.

2. During reference (c), the Marine Corps Base, Camp Lejeune was requested to provide the following:

a. Information for each test well at chemical and solid waste land disposal facilities to include: geographical location; top of well elevation; ground elevation; and water elevation in well or distance to water surface as measured from top of well.

b. Water samples (1 liter) from each test well.

The information and water samples should be forwarded to: Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA 23511, Attention Code 114.

3. Question regarding this matter should be directed to Mr. P. Cunanan, Code 114, AUTOVON 690-7313.

J. G. Leech

J. G. Leech
By direction

SANITARY LANDFILL - GENERAL CORRESPONDENCE 6208/1