



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

IN REPLY REFER TO

MAIN/JIW/th
4100
5 June 1978

Mr. J. Gordon Layton
North Carolina Department of Human Resources
Division of Health Services
Solid Waste Branch
Post Office Box 2091
Raleigh, North Carolina 27602

Dear Mr. Layton:

As per our discussion during the 25 May 1978 meeting at Camp Lejeune relative to the Base Sanitary Landfill Operation Plan, the enclosed soils data, facilities maps, contour maps and cross sectional drawings are submitted for your review and continued action.

It is understood this information will be used to evaluate/approve the existing site and proposed expansion area.

For further information contact Mr. Wendell Neal or Mr. Julian Wooten, Base Maintenance Department, phone (919) 451-5003/2083.

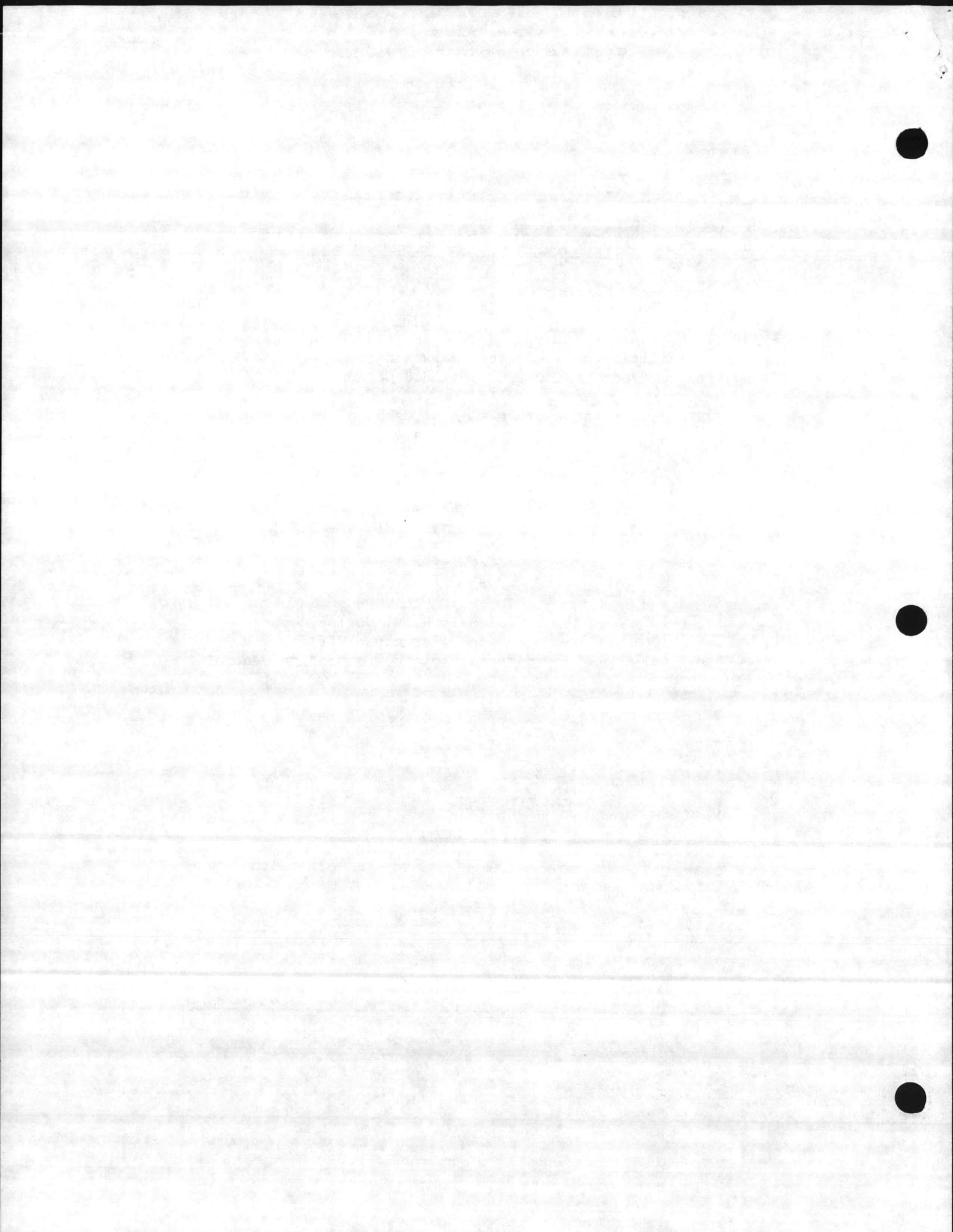
Sincerely,

C. D. WOOD

Colonel, U. S. Marine Corps
Base Maintenance Officer

By direction of the Commanding General

Enclosures



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June 19, 1978

Colonel C. D. Wood
Base Maintenance Officer
U. S. Marine Corps
Marine Corps Base
Camp Lejeune, North Carolina 28542

Dear Colonel Wood:

RE: Camp Lejeune Base Landfill Site Plans

Enclosed is a copy of the landfill site plan which is approved with the following conditions:

1. A 3-foot separation between waste and the ground water table shall be maintained.
2. Inundated areas shall be filled with soil or inert material before use.

These conditions should be used in developing the operational plans.

In regard to our meeting of May 25, 1978, in reference to a drainage system for the site, a meeting should be scheduled with Mr. Fred J. Wood and me before the final design of the operational plans is completed.

Also, please find enclosed a copy of the Division of Health Services' "Solid Waste Management Rules".

If I can assist you in any way, please call me.

Sincerely,

J. Gordon Layton
Environmental Engineer
Solid Waste & Vector Control Branch
Sanitary Engineering Section

JGL/wss

cc: Mr. Wendall Neal
Mr. Julian Wooten
Mr. Fred J. Wood
Mr. O. W. Strickland



June 19, 1978 *aut*

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U. S. Marine Corps
Marine Corps Base
Camp Lejeune, North Carolina 28542

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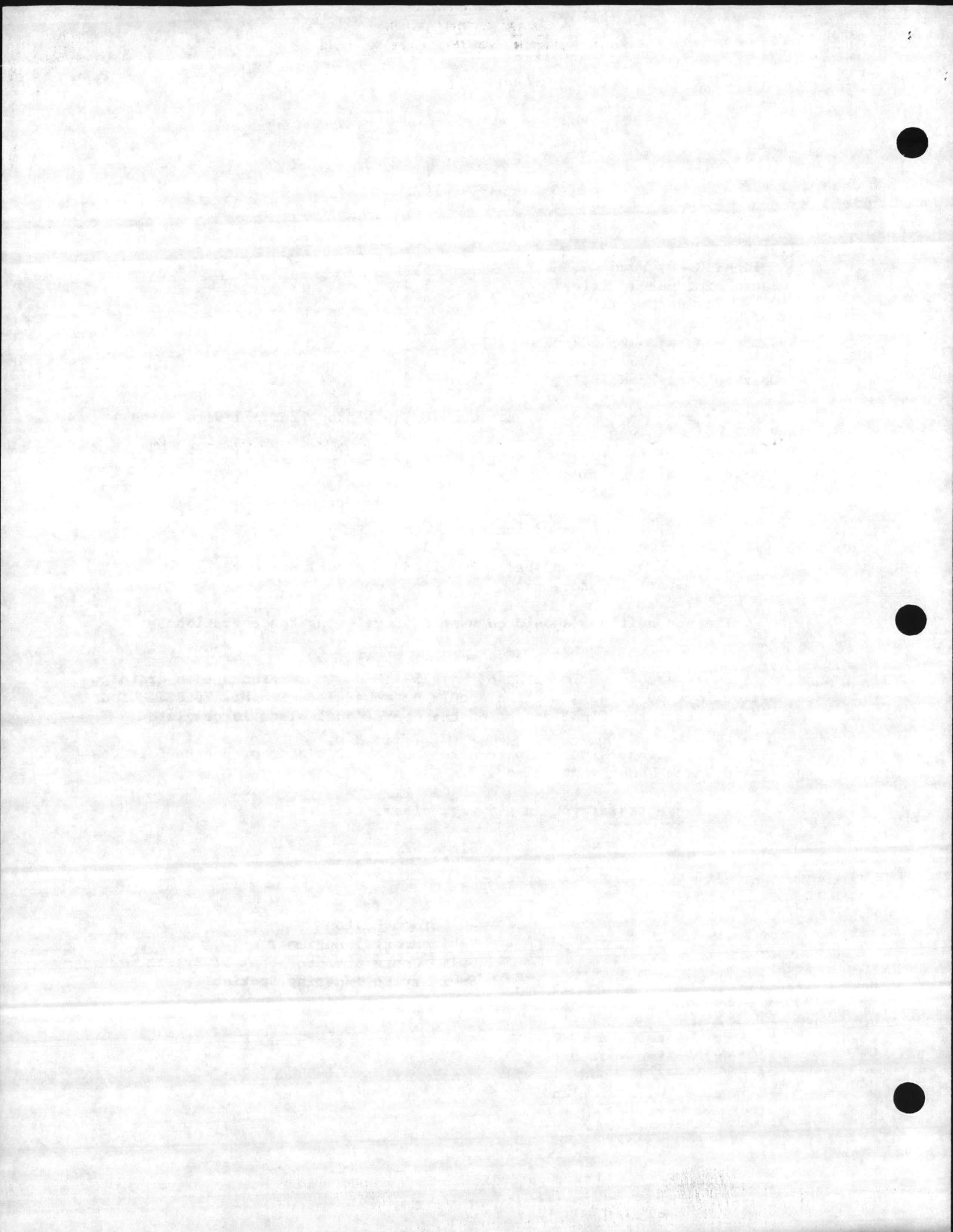
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Sanitary Engineering Section

JGL/wss

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Mr. Fred J. Wood
Mr. O. W. Strickland





MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO



PWO:04:ELR:hf
PWD 81-21
21 APR 1982

Mr. Gordon Layton
N. C. Department of Human Resources
Solid and Hazardous Waste Management Branch
P. O. Box 2091
Raleigh, NC 27602

Re: Camp Lejeune Sanitary Landfill
Operational Plan

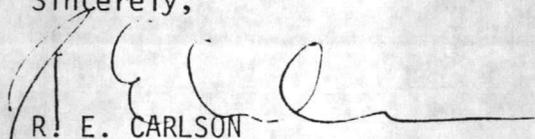
Dear Mr. Layton:

The enclosed four copies of the Operational Plan for the Marine Corps Base, Camp Lejeune, Sanitary Landfill are submitted for your approval.

Please address questions, comments and correspondence to:

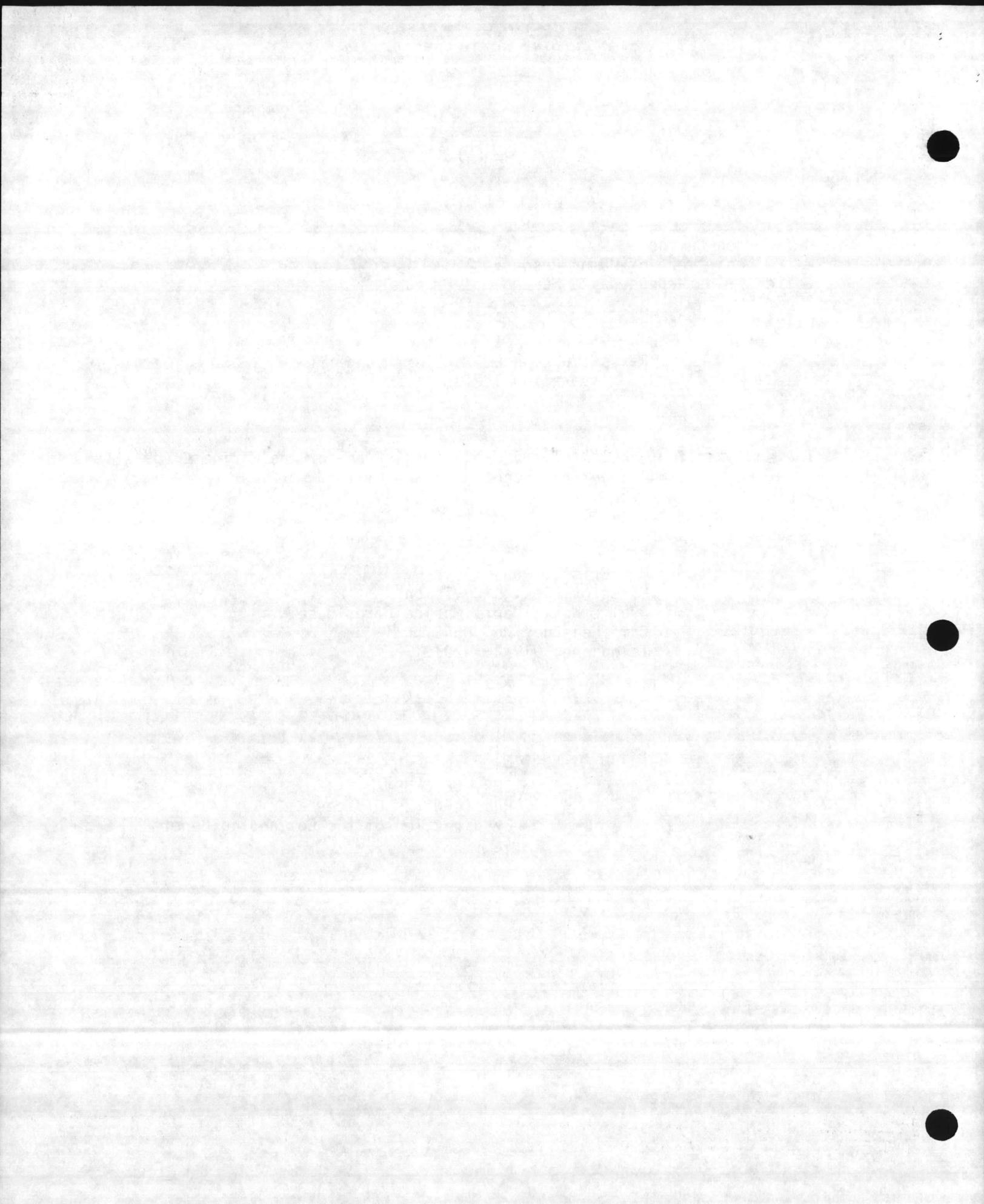
Mr. Eris L. Rouse
Director, Design Division
Public Works Dept, Marine Corps Base
Camp Lejeune, NC 28542
Telephone: 919-451-2213

Sincerely,


R. E. CARLSON
CDR, CEC, USN
Public Works Officer

By direction of the Commanding General

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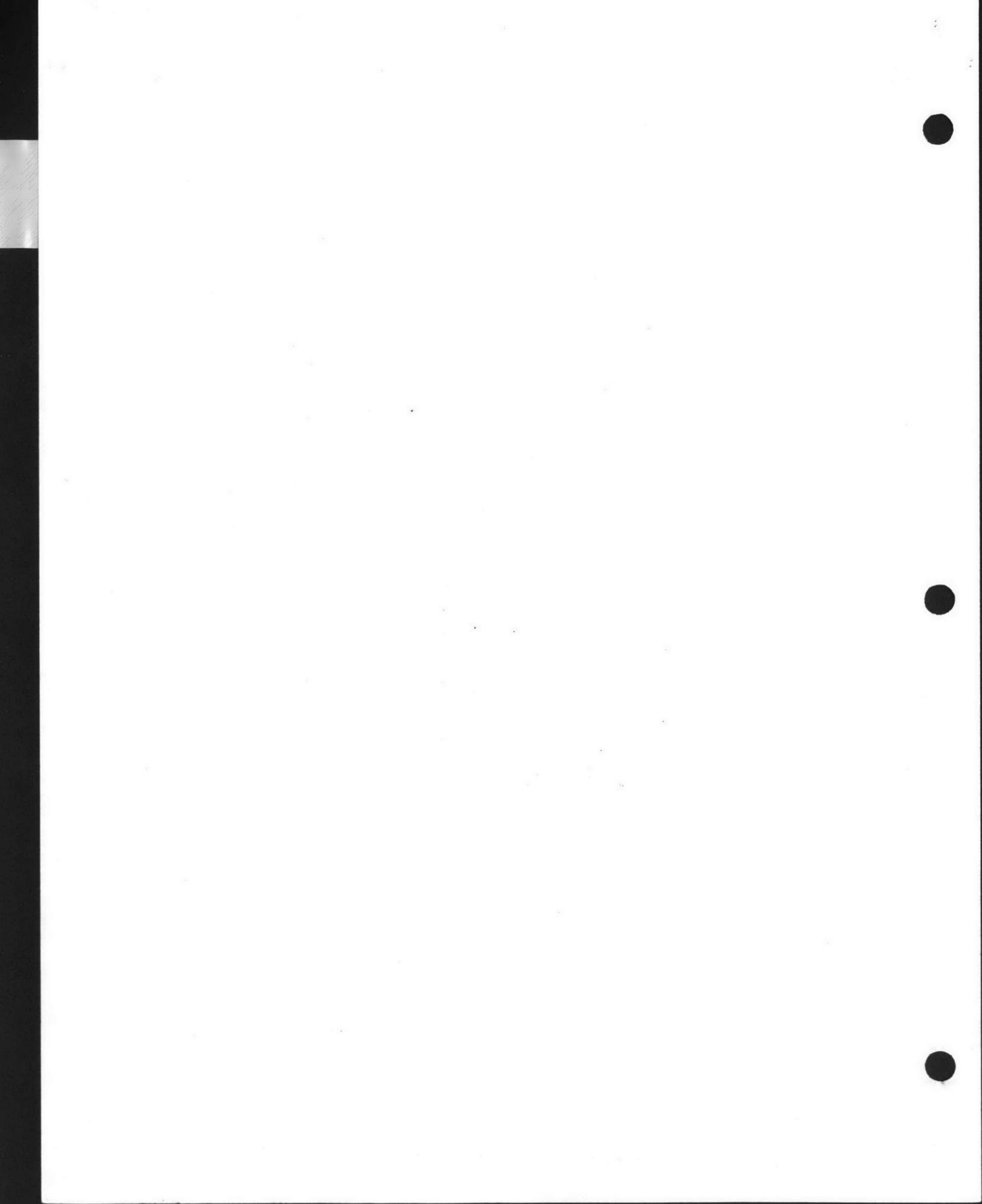
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SOLID WASTE PERMIT

Conditions of Permit:

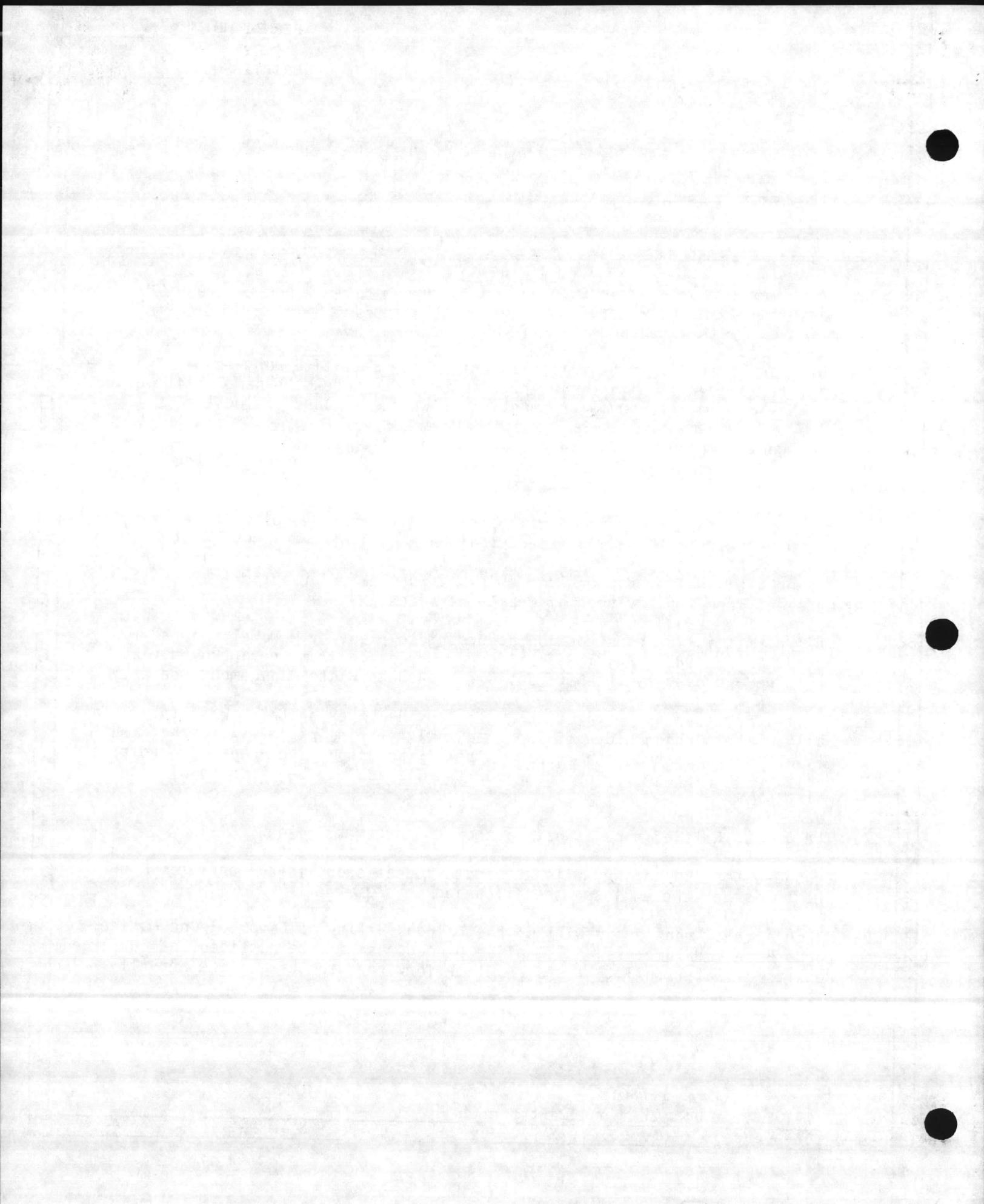
1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges and duties may have been affected by the issuance thereof.
2. This permit shall not be effective unless the certified copy is filed in the register of deeds' office, in the grantor 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.



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Notes
AM
aut?
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.

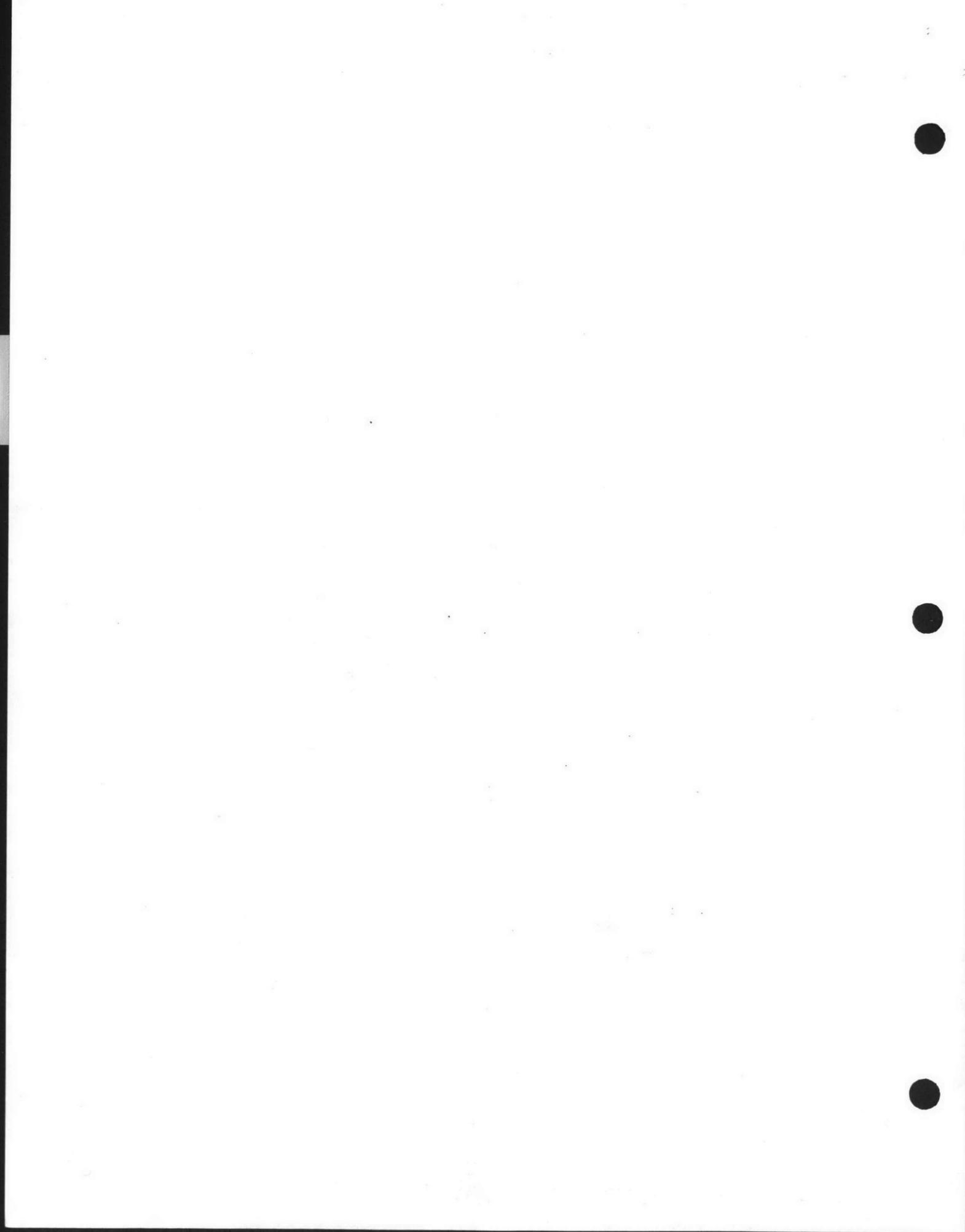
If you have any questions, please advise.

Respectfully,

J. Gordon Layton, 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



M...
...
aut?

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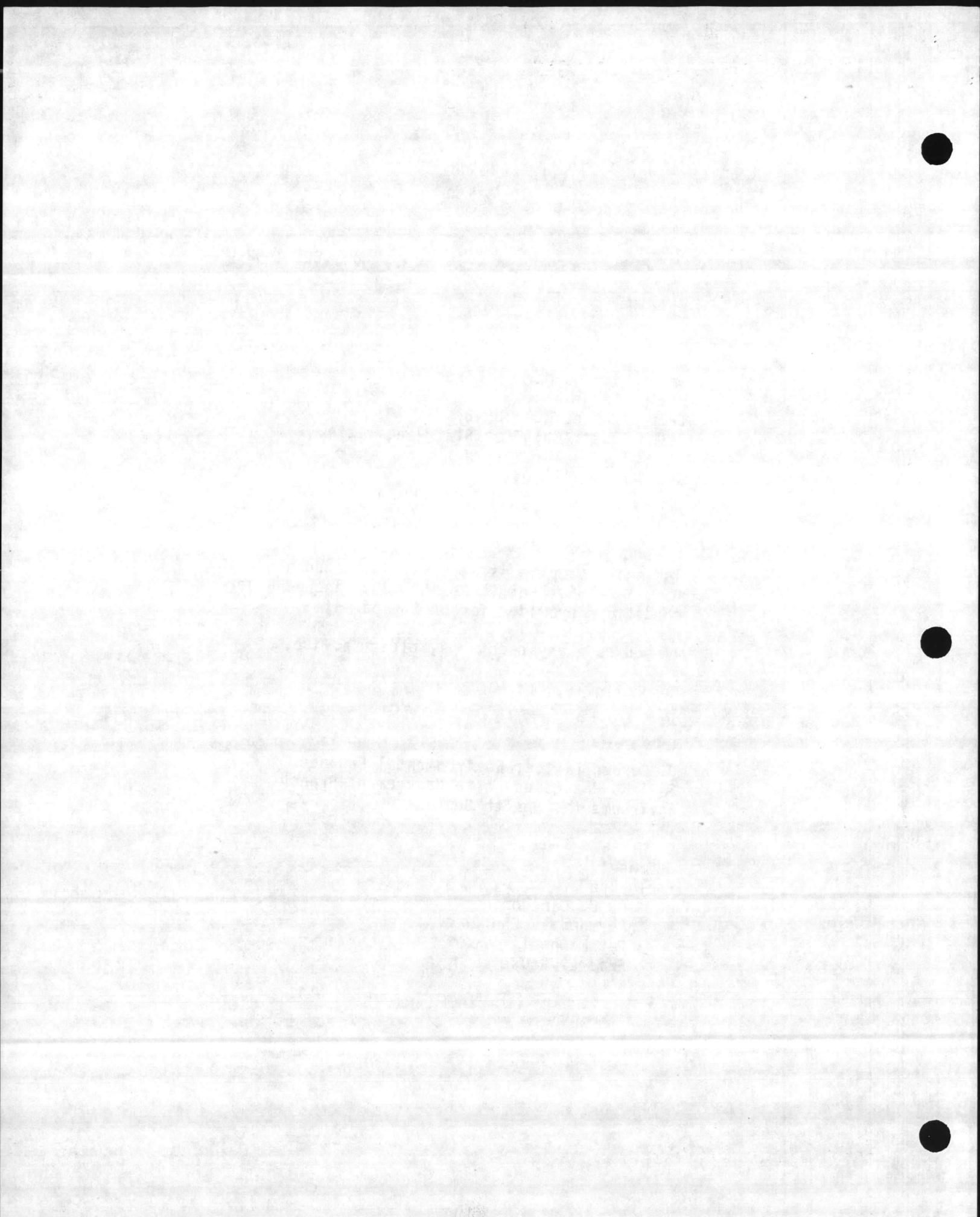
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Solid & Hazardous Waste Management Branch
Environmental Health Section

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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. 67-03.

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

North Carolina
Wake County

I, Nell T. 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 20th day of
July, 1982.

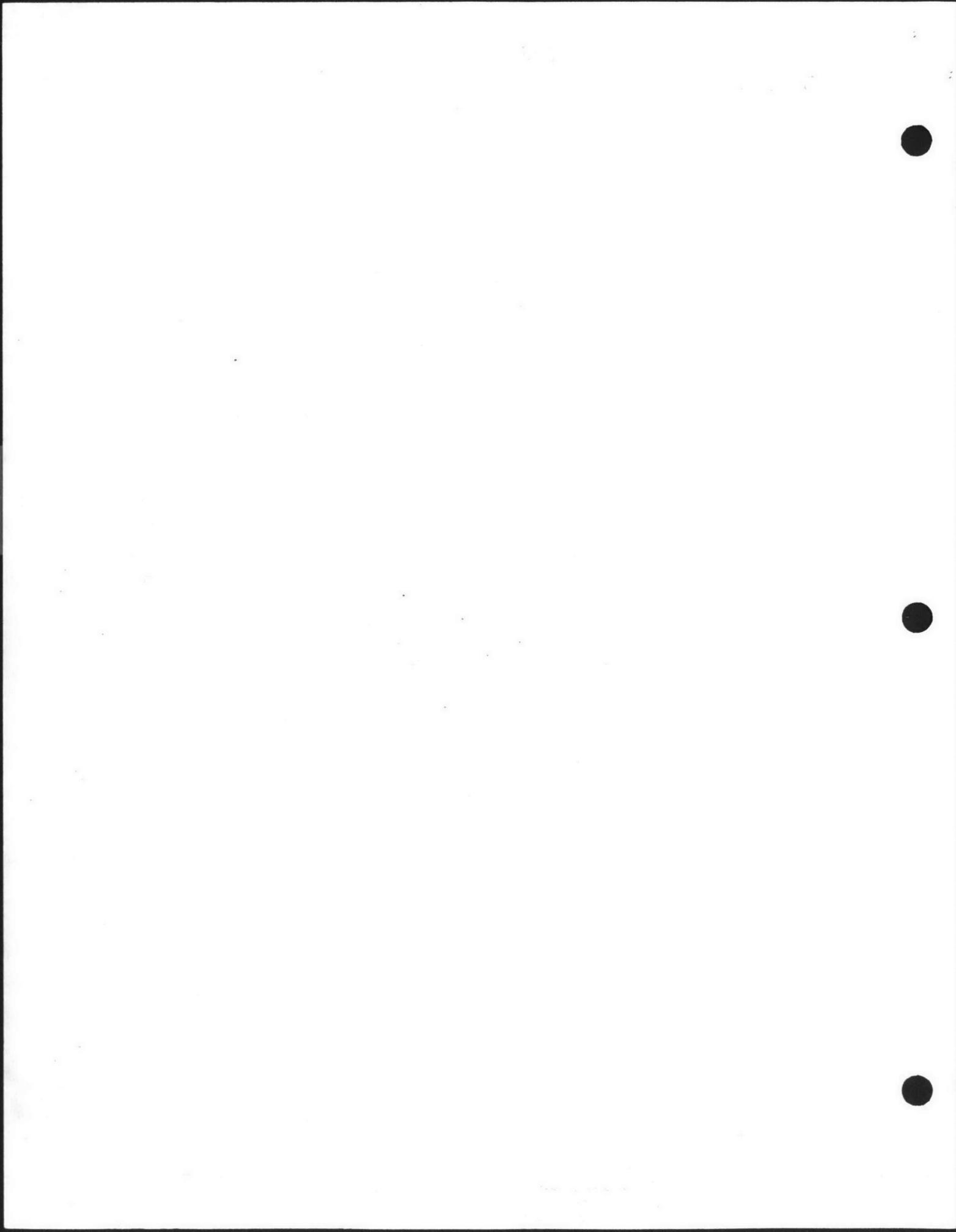


Nell T. Sellers
Notary Public

NORTH CAROLINA, ONSLOW COUNTY
The foregoing certificate(s) of Nell T. Sellers
and _____

Notary (ies) Public is (are) certified to be correct. This instrument was presented for registration and re-
corded in this office in Book 630 Page 866. This 26 day of August

1982 A. D., at 9:13 o'clock A. M.
Mildred M. Thomas By _____
Register of Deeds, Onslow County Register of Deeds



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

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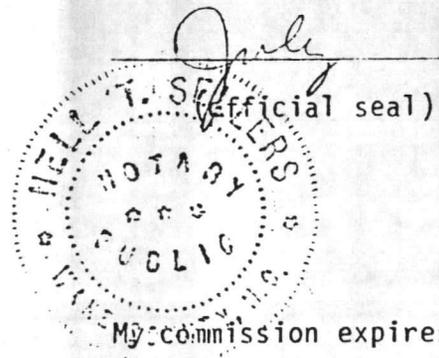
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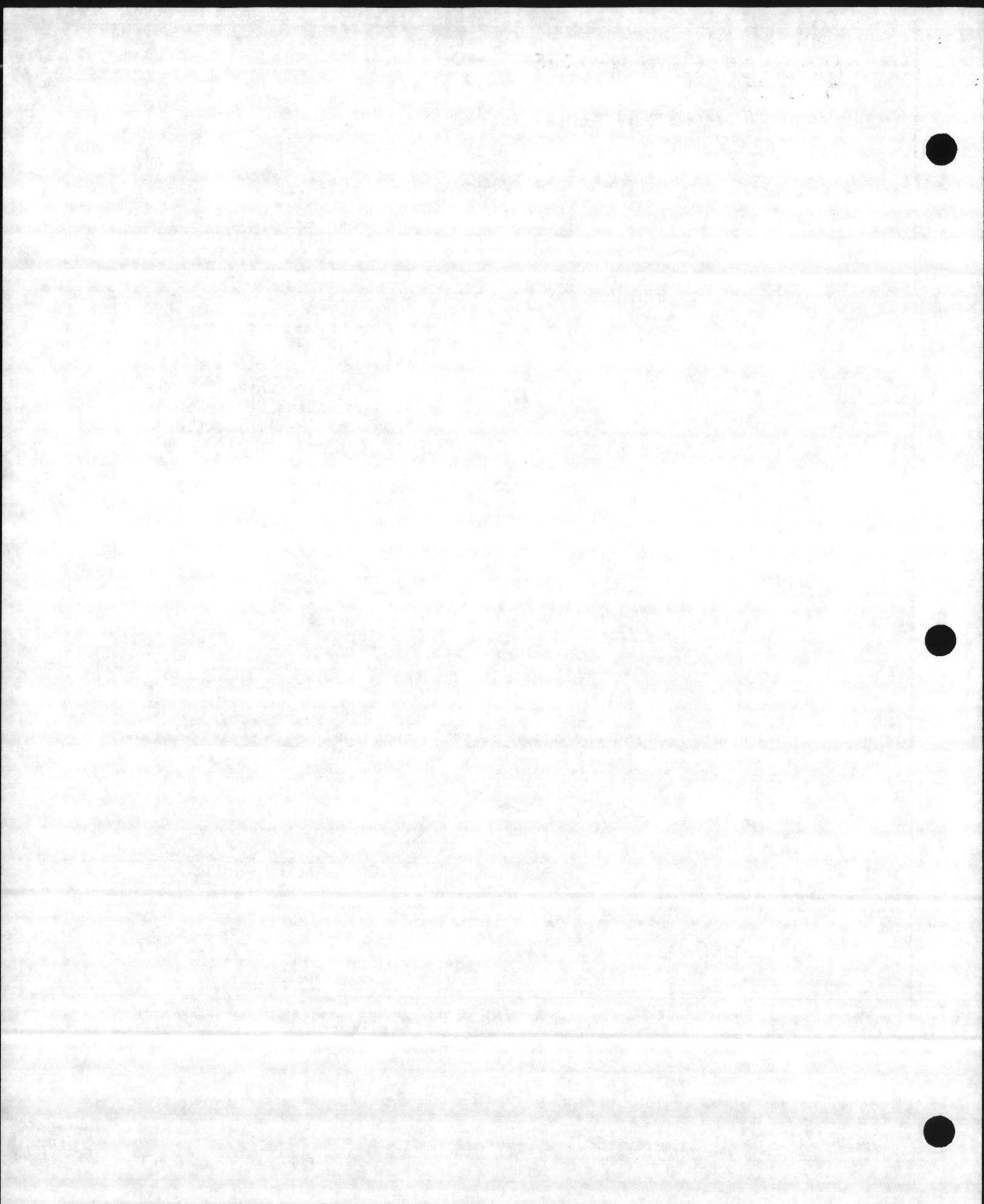


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DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Permits

CERTIFICATION OF RECORDATION OF SOLID WASTE PERMIT

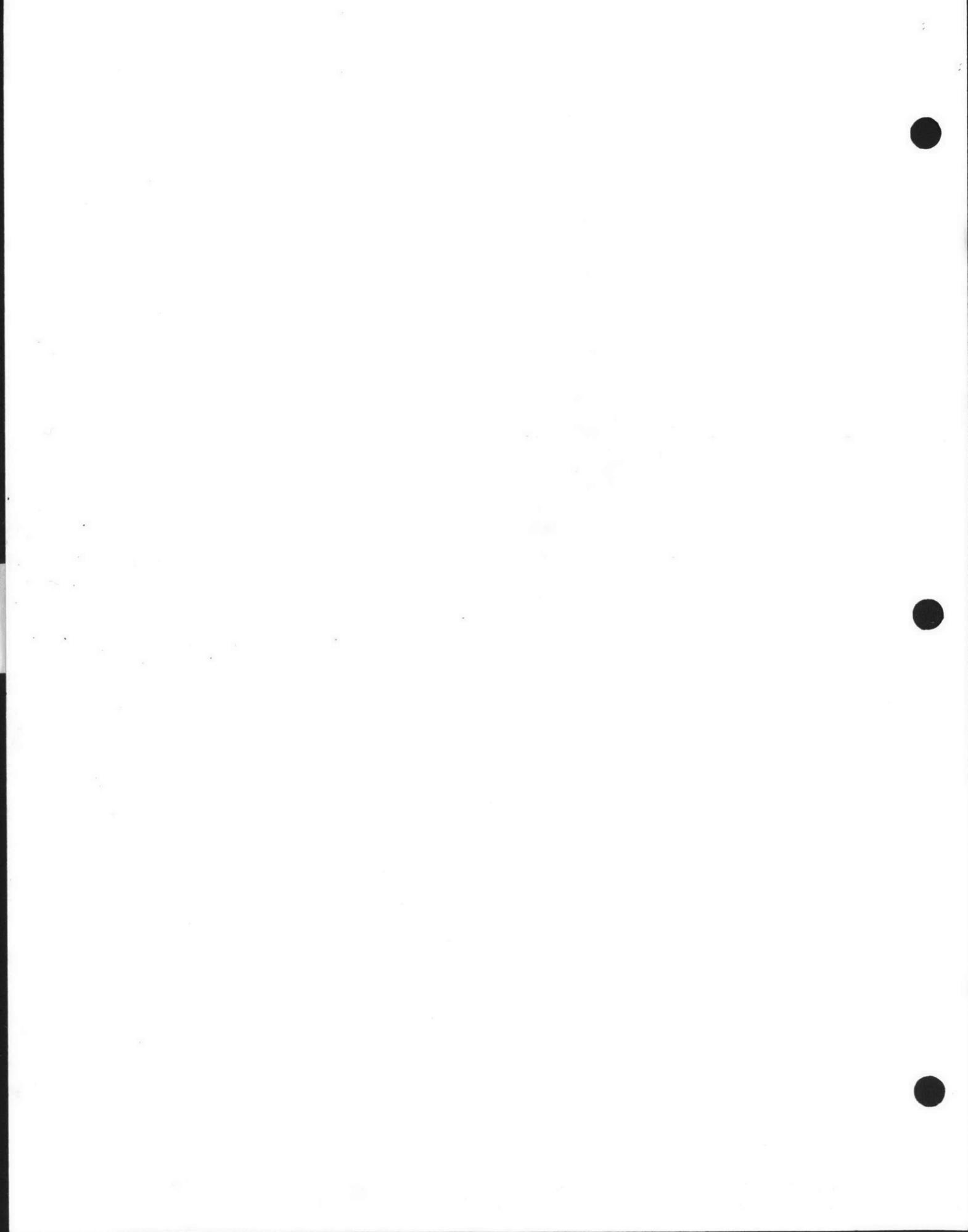
The Certified Copy of Permit # 67-03 was recorded
on Page 630, Book 866; on this
26 day of August, 1982.
9:13 A.M.

Michael M. Thomas
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.



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

Permits

CERTIFICATION OF RECORDATION OF SOLID WASTE PERMIT

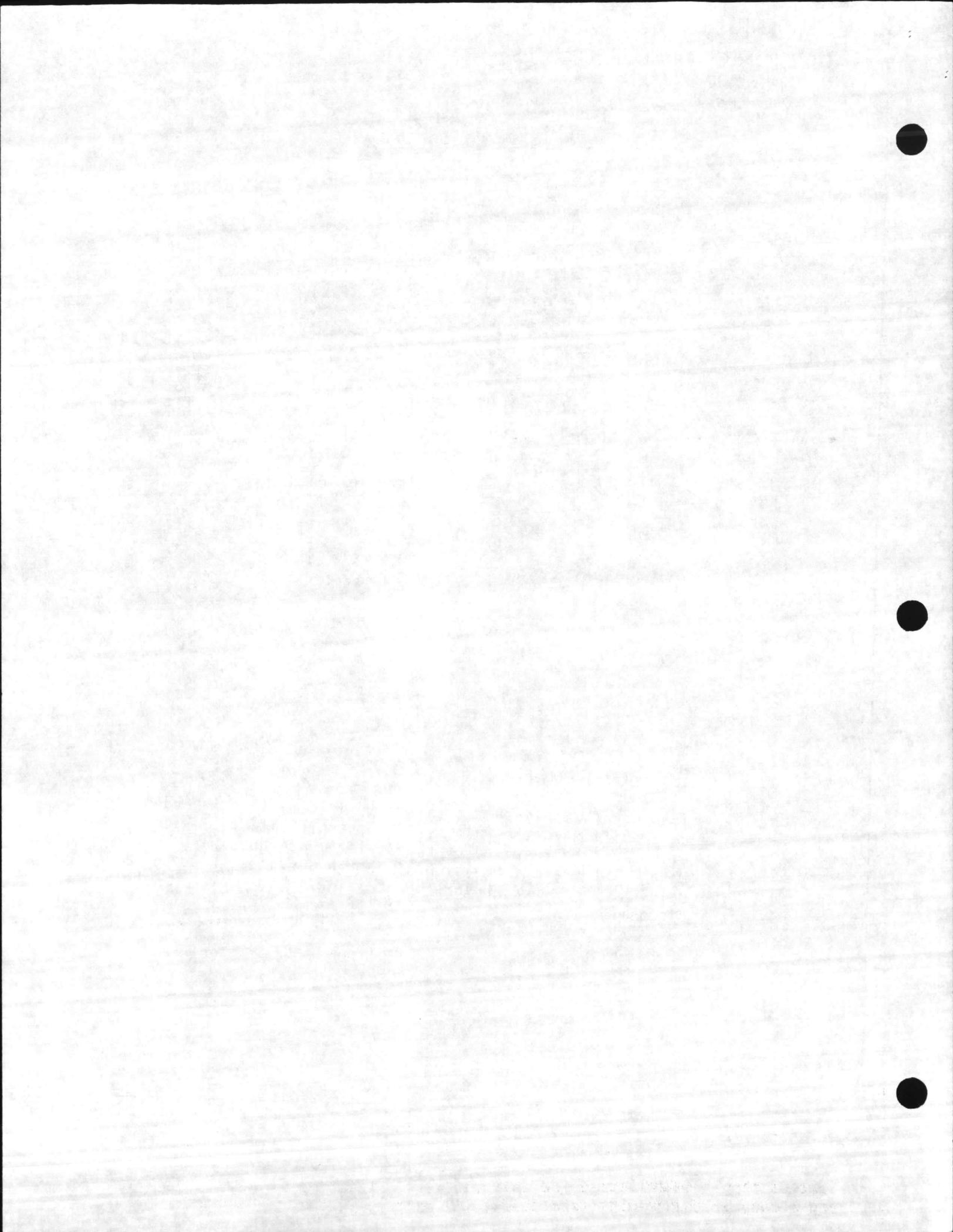
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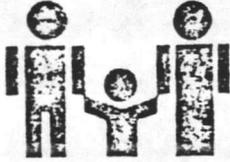
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DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

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

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:

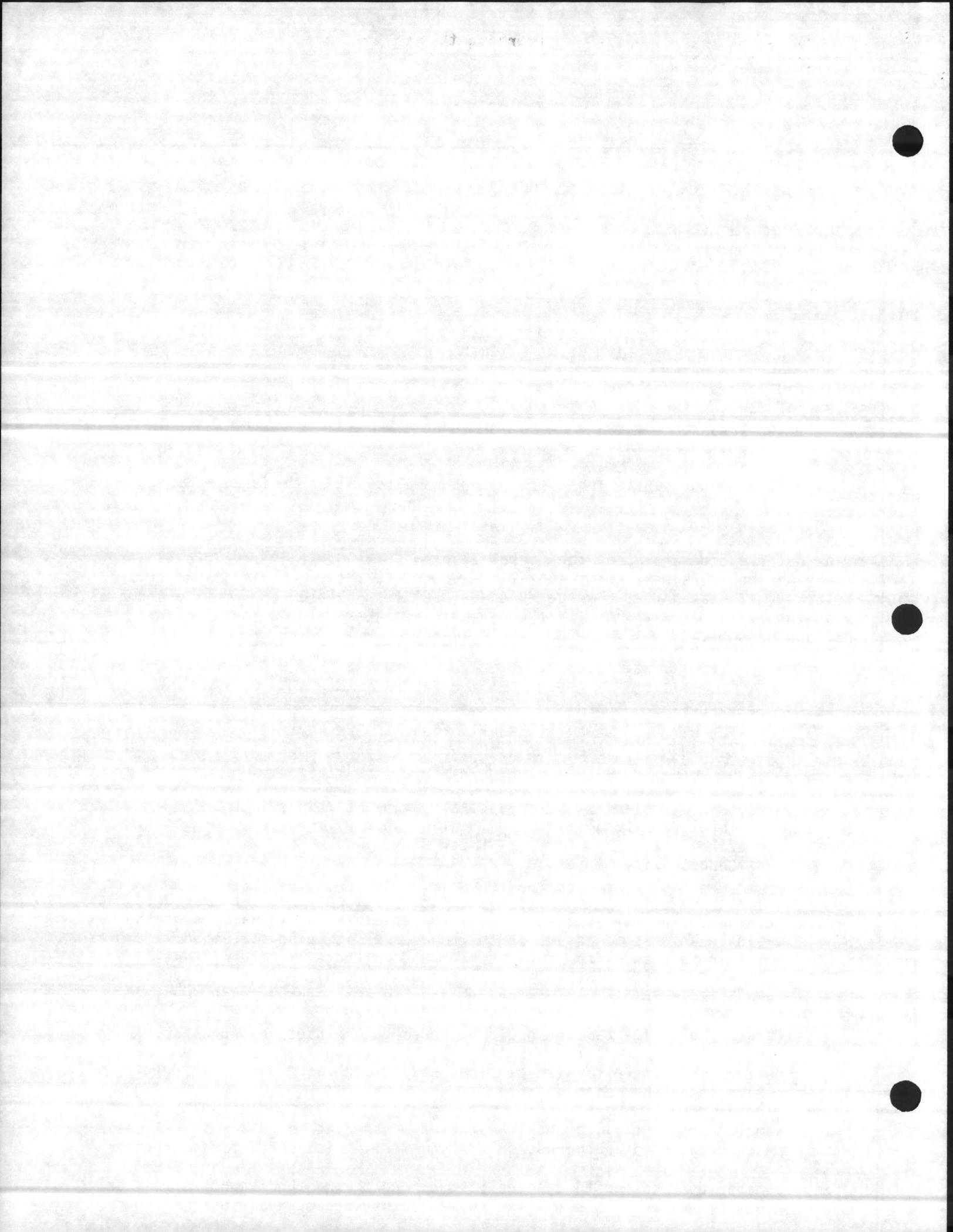
Arsenic	Lead	Nitrate	Color
Barium	Mercury	Fluoride	Iron
Cadmium	Selenium	Chloride	Manganese
Chromium	Silver	Copper	Sulfate
pH		Total Organic Carbon	
Total Dissolved Solids		Total Organic Halogen	
Zinc		Water Elevation	
Conductivity			

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.

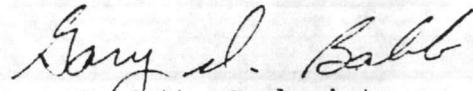
Samples should be iced and transported to the lab for analysis. A chain of custody is not required, unless you feel it is needed for your records.

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.

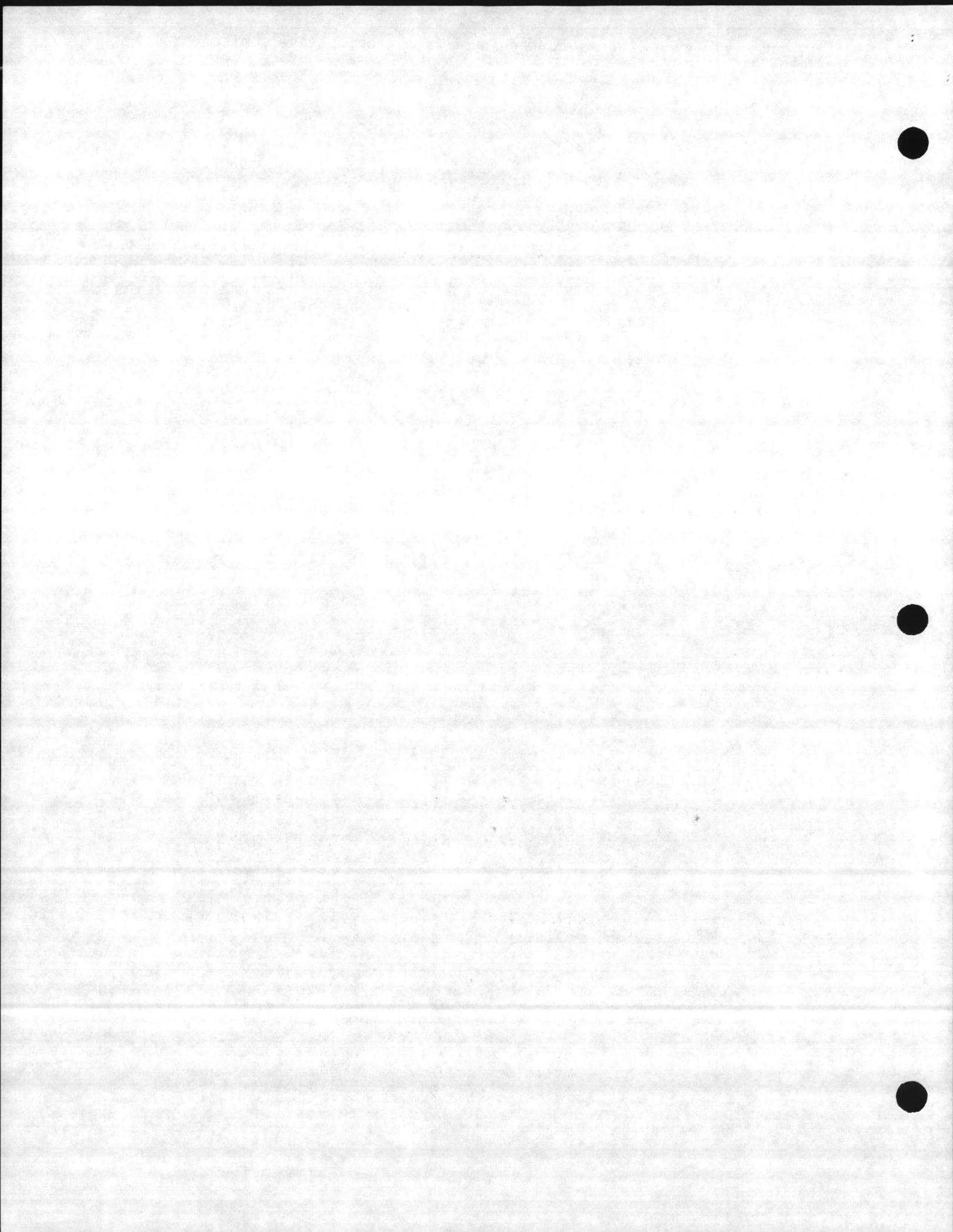
Sincerely,



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

GDB:ns

cc: Danny Sharpe
Raymond L. Church





OK

North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

ONSKOW CO.

September 24, 1986

Commanding General
Marine Corps Base
Camp Lejeune, North Carolina 28542

Dear Ms. Betz:

The Solid and Hazardous Waste Management Branch is in the process of compiling water quality data for all of the solid waste facilities throughout North Carolina. For some unknown reason, this office does not have copies of the laboratory water quality analysis from the ground-water monitoring wells at the Camp Lejeune Landfill. Would it be possible for you to mail me copies of all available ground water (and surface water) quality results from the landfill? As you may be aware, future sampling intervals are to be on an annual basis and subsequent analysis should include the following total parameters: arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, chloride, copper, fluoride, iron, zinc, manganese, and nitrate. Additionally, the following environmental indicators are to be tested for as well: total organic halogens (TOX), total dissolved solids (TDS), total organic content (TOC), Ph and conductivity. Copies of these results should be forwarded within 15 days of receipt (from your office) to the Solid Waste Hydrogeologist at the Solid and Hazardous Waste Management Branch P.O. Box 2091 Raleigh, North Carolina 27602-2091.

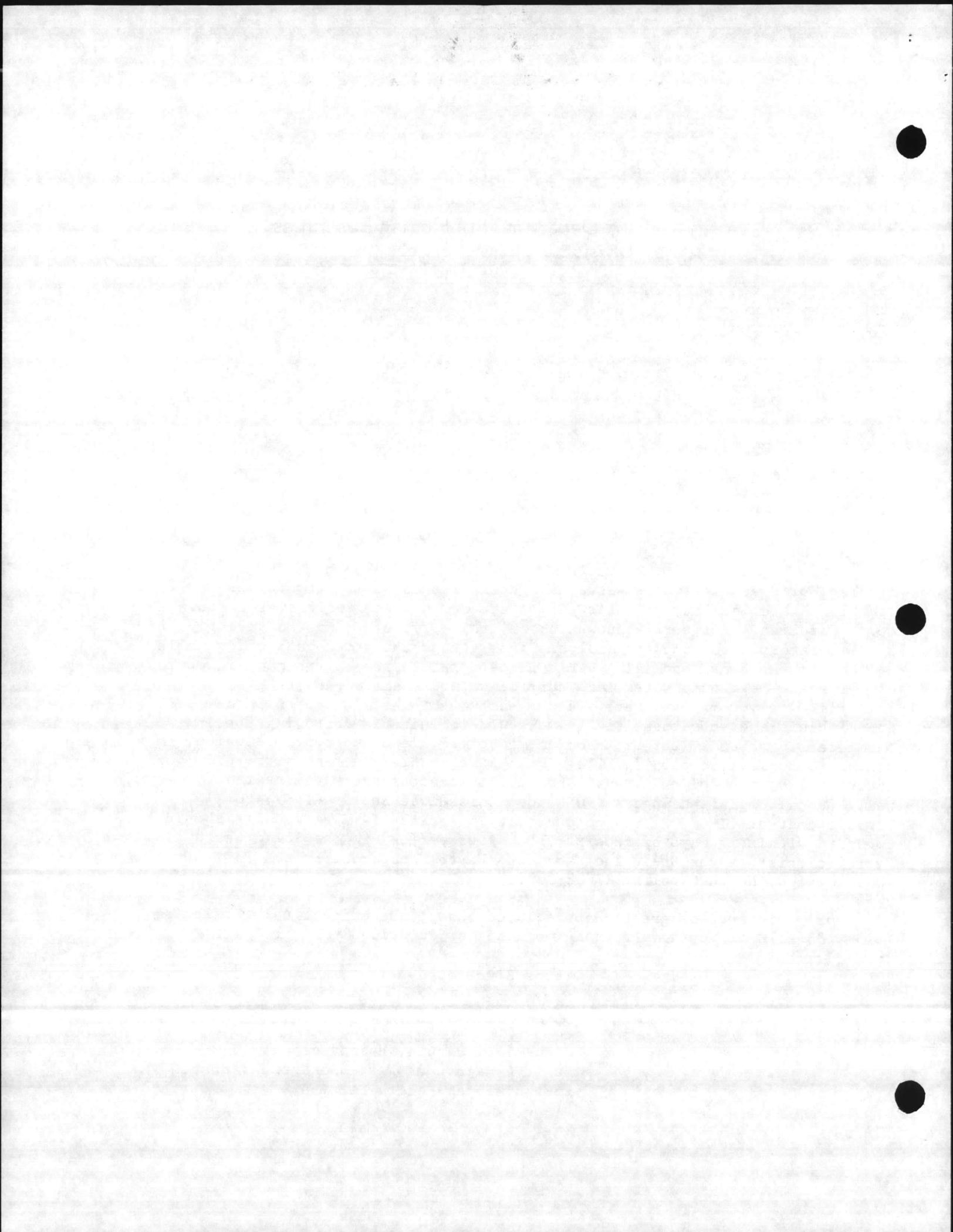
Your assistance is greatly appreciated and please contact this office at (919) 733-2178 if you have further comments or questions

Yours Sincerely,

A handwritten signature in cursive script, appearing to read "Michael L. Babuin".

Michael L. Babuin, Hydrogeologist
Solid & Hazardous Waste Management Branch
Environmental Health Section

MLB/mj





North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

February 9, 1987

Danny Sharp
Camp Lejeune
CC MLB Director, NR+Env. Aff.
Camp Lejeune, NC 28542

NOTICE OF DEFICIENCY: Regarding ground-water monitoring wells at Camp LeJeune Landfill.

Dear Mr. Sharp:

A recent inspection at the above referenced facility indicates the following problems associated with the operation and subsequent maintenance of the existing ground-water monitoring wells.

1. Damaged PVC cap.
2. Rusted outer casing.

Because these problems significantly influence and affect the integrity and validity of the analytical results, it is of the utmost importance that these deficiencies be corrected as soon as possible. Your prompt attention to this matter is greatly appreciated.

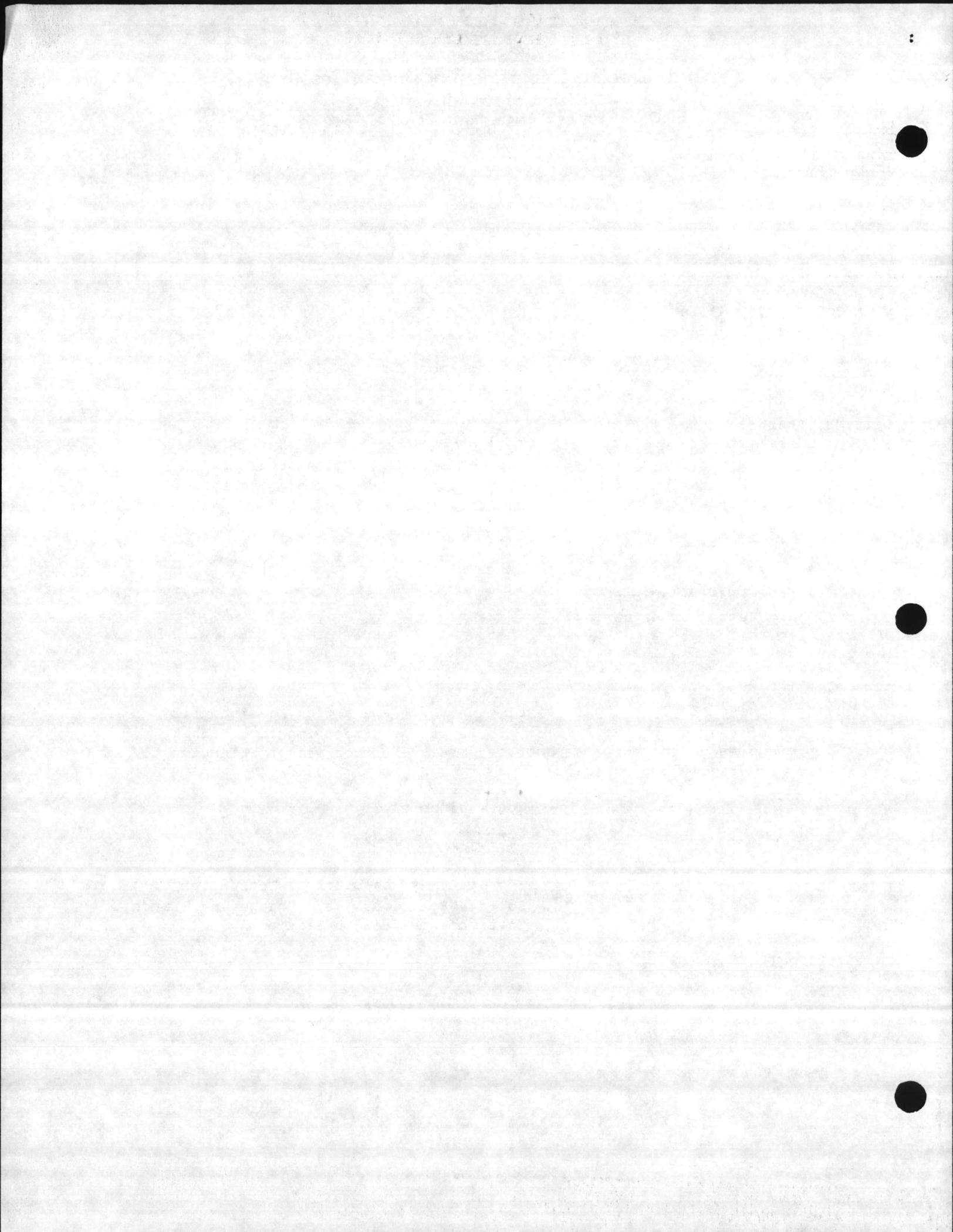
Yours sincerely,

Thomas R. Will

Tom Will, Hydrogeological Technician
Solid & Hazardous Waste Management Branch
Environmental Health Section

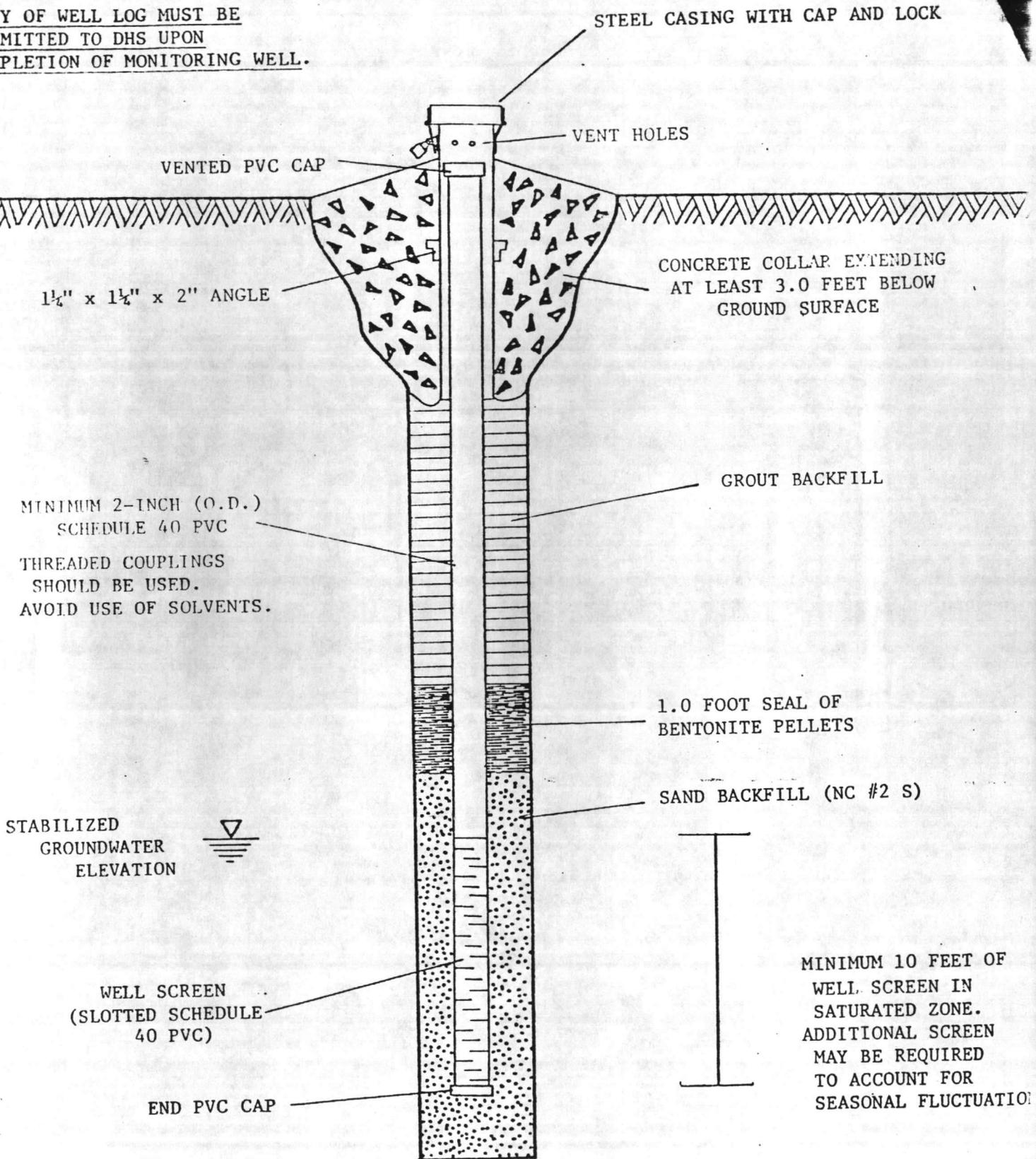
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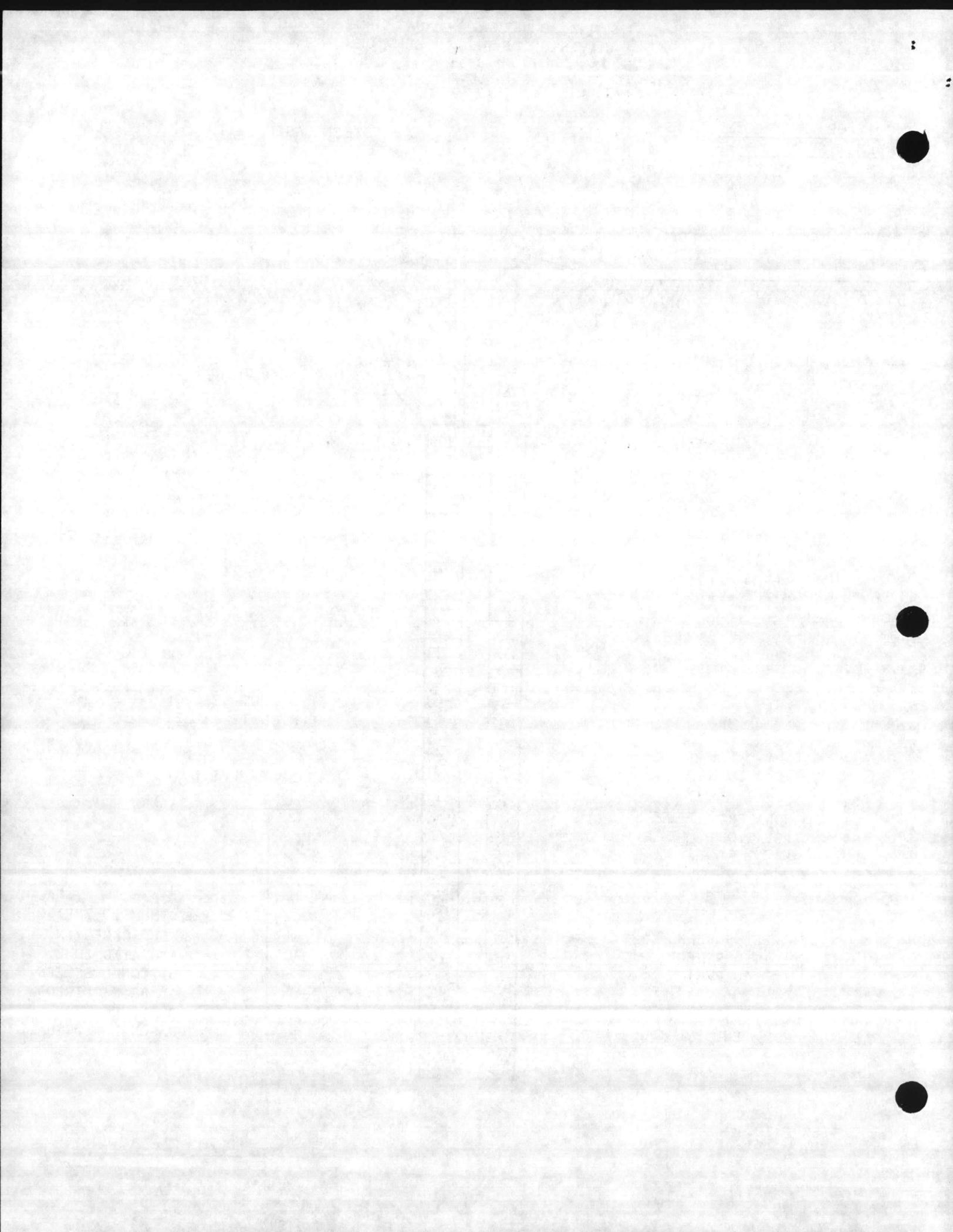
cc: M.L. Babuin



SOLID & HAZARDOUS WASTE MANAGEMENT BRANCH
DIVISION OF HEALTH SERVICES

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





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