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1 JANUARY 1978

31 DECEMBER 1978

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SecNavInst 5212.5B, Part II, Chap 4  
Par 4100(1)

4100-RESOURCE RECOVERY

4100-RESOURCE RECOVERY

Natural Resources div

Mr. Wooten



DEPARTMENT OF HUMAN RESOURCES

DIVISION OF HEALTH SERVICES

RALEIGH

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*

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

*Julian  
Solid  
lets get  
together on it  
later*

DEPARTMENT OF HUMAN RESOURCES

DIVISION OF HEALTH SERVICES

RALEIGH

June 19, 1978

Colonel C. D. Wood  
Base Maintenance Officer  
U. S. Air Force  
Kearse Corps Base  
Camp Lejeune, North Carolina 28542  
Dear Colonel Wood:

Enclosed for your information are plans

enclosed as a copy of the landfill site plan which is enclosed with  
the following conditions:

1. A 3-foot separation between waste and the ground water  
table shall be maintained.

2. Landfill area 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 18, 1978, in reference to a drainage  
system for the site, a final plan should be submitted with the final plan  
and no before the final design of the operational plan 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,

Jordan Taylor  
Environmental Engineer  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

Mr. C. D. Wood  
Mr. Frank J. Wood  
Mr. William Webster  
Mr. Kenneth J. Wood

Fred Wood

756-1343

Greenville, N.C.

State  
Regulations

Place <sup>in</sup> borrow site →  
this is only reservation ←→  
other dumping →  
put up signs →  
prevent scavenging →→→

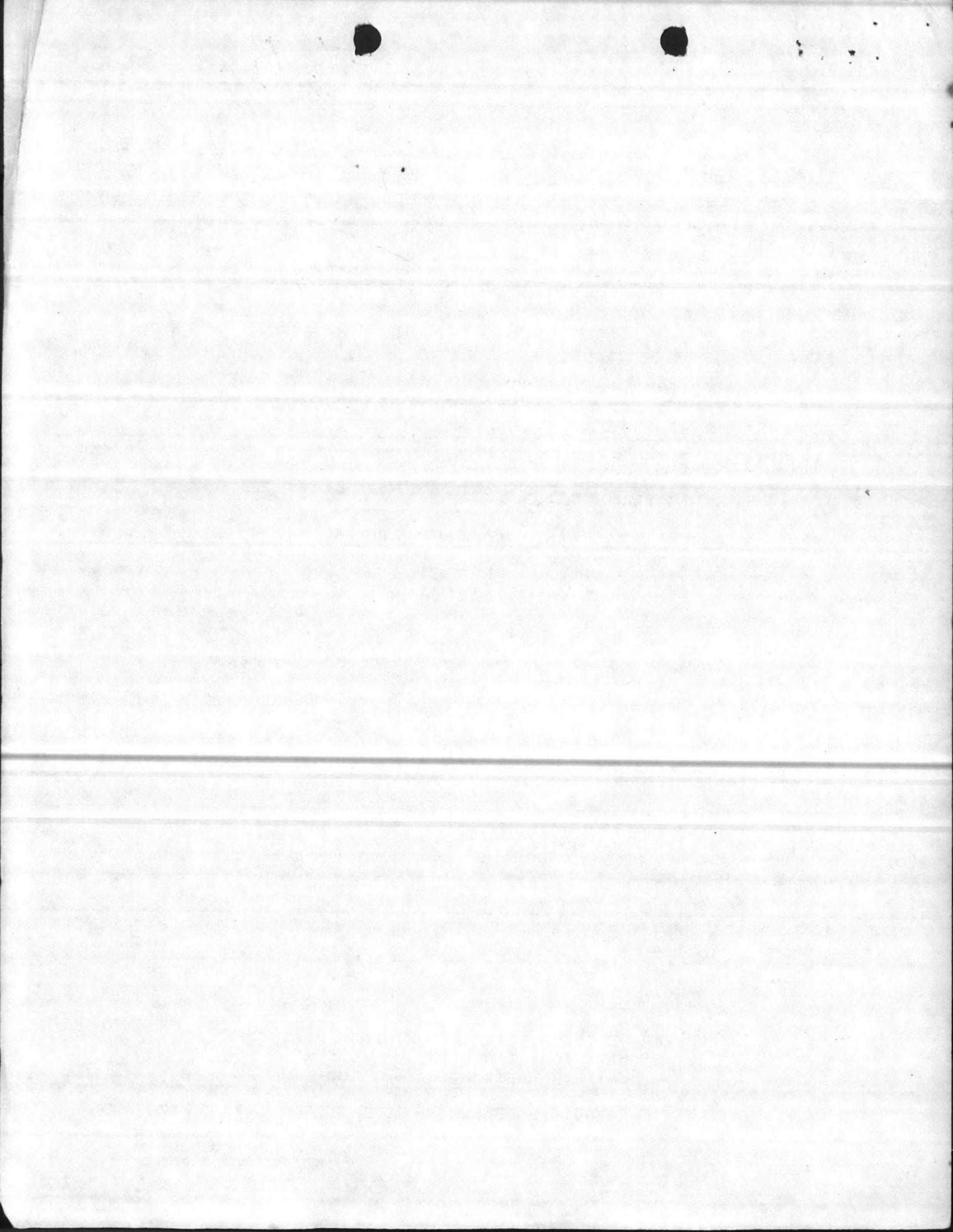
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J. L. W.  
28 June 77

SOLID WASTE MANAGEMENT RULES

Prepared by the Department of Human Resources  
Division of Health Services  
Sanitary Engineering Section

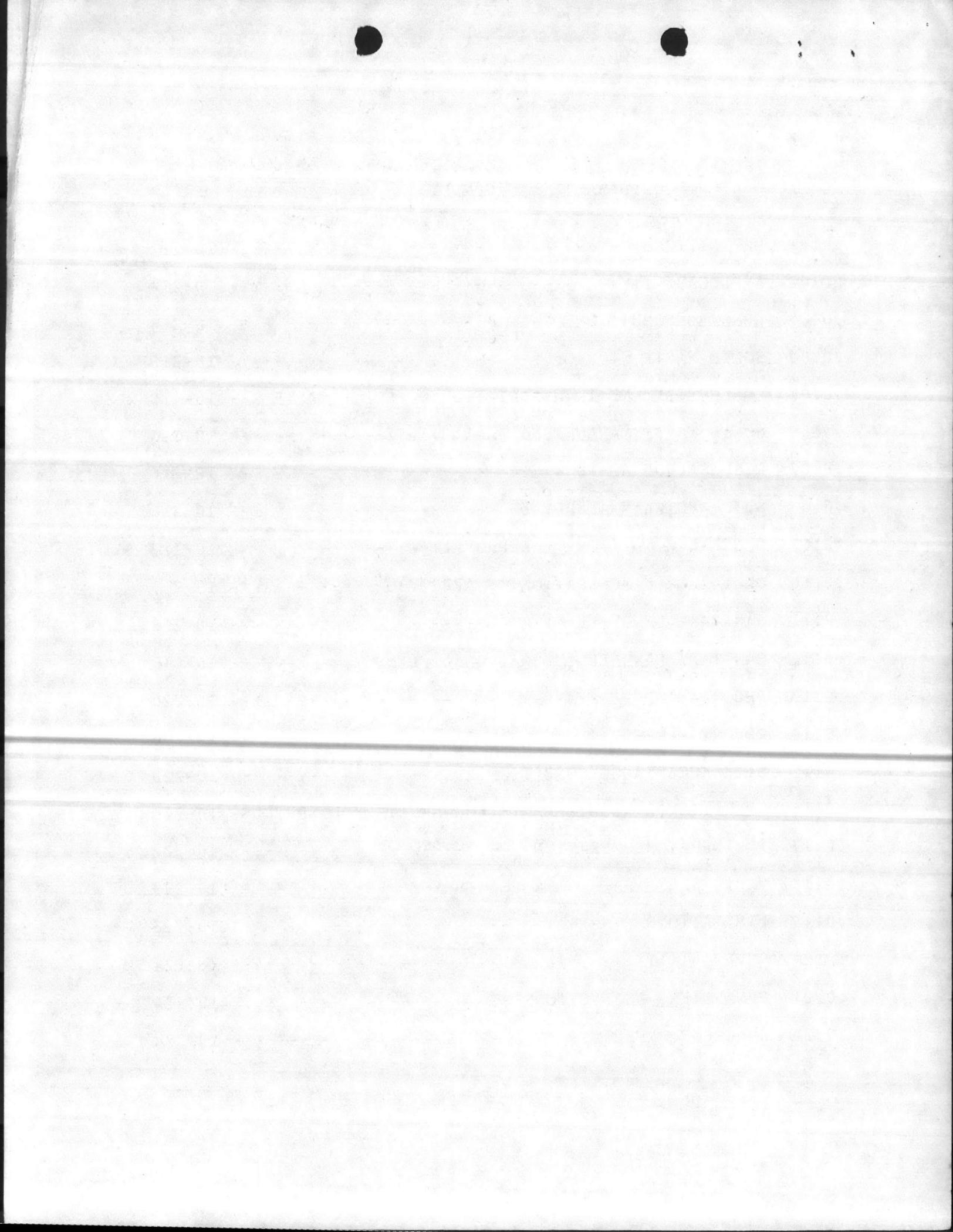
Recodified February 1, 1976

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## SUBCHAPTER 10C - SOLID WASTE AND VECTOR CONTROL

## SECTION .0100 - SOLID WASTE MANAGEMENT

## .0101 DEFINITIONS

The following words and phrases shall have the meanings ascribed to them in this section and as ascribed by law:

- (1) "Garbage" means all putrescible wastes, including animal and vegetable matter, animal offal and carcasses, and recognizable industrial by-products, but excluding sewage and human wastes.
- (2) "Natural resources" means all materials which have useful physical or chemical properties which exist, unused, in nature.
- (3) "Recycling" means the process by which recovered resources are transformed into new products in such a manner that the original products lose their identity.
- (4) "Refuse" means all non-putrescible wastes.
- (5) "Resource recovery" means the process of obtaining material or energy resources from solid waste.
- (6) "Solid waste" means garbage, refuse, rubbish, trash, and other discarded solid materials, including solid waste materials resulting from industrial, commercial, and agricultural operations, and from community activities, but does not include solids or dissolved materials in domestic sewage or other significant pollutants in water resources, such as silt, dissolved or suspended solids in industrial waste water effluents, dissolved materials in irrigation return flows or other common water pollutants.
- (7) "Solid waste disposal" means the collection, storage, treatment, utilization, processing, or final disposal of solid waste.
- (8) "Solid waste disposal facility" means land, personnel, equipment, or other resources used in the disposal of solid wastes.
- (9) "Solid waste disposal site" means any place at which solid wastes are disposed of by incineration, sanitary landfill or any other methods.
- (10) "Solid waste management" means the purposeful, systematic control of the generation, storage, collection, transport, separation, processing, recycling, recovery and disposal of solid waste.
- (11) "Cell" means compacted solid waste completely enveloped by a compacted cover material.

- (12) "Division of health services" means the director or his authorized representative.
- \* (13) "Hazardous solid wastes" includes but is not limited to explosives, pathological wastes, pesticides, chemicals, and other toxic materials which are harmful to public health.
- (14) "Incineration" means the process of burning solid, semi-solid or gaseous combustible wastes to an inoffensive gas and a residue containing little or no combustible material.
- (15) "Local governing agency" refers to incorporated cities, counties, and special purpose districts which are empowered to undertake solid waste management programs.
- (16) "Open burning" means any fire wherein the products of combustion are emitted directly into the outdoor atmosphere and are not directed thereto through a stack or chimney, incinerator, or other similar devices.
- (17) "Open dump" means the consolidation of solid waste from one or more sources at a disposal site which has insanitary conditions, little or no cover, usually burning, and little or no management.
- (18) "Person" means any individual, firm, governmental unit, organization, partnership, corporation, or company.
- (19) "Putrescible" means solid waste capable of being decomposed by microorganisms with sufficient rapidity as to cause nuisances from odors and gases, such as kitchen wastes, offal and carcasses.
- (20) "Radioactive solid waste" means any radioactive material.
- (21) "Runoff" means the portion of precipitation that drains from an area as surface flow.
- (22) "Sanitary landfill" means a planned method of disposing of solid waste on land in a sanitary manner without creating nuisances or hazards to public health or safety by utilizing the principles of engineering to confine the solid waste to the smallest practical area, to reduce it to the smallest practical volume, and to cover it with a layer of compacted earth at the conclusion of each day's operation or at such more frequent intervals as may be necessary.
- (23) "Solid waste collector" means any person who collects or transports solid waste.
- (24) "Spoiled food" means any food which has been removed from sale by the United States Department of Agriculture, North Carolina Department of Agriculture, Food and Drug Administration, or any other regulatory agency having jurisdiction in judging food unfit for consumption.

- (25) "Vector" means a carrier, usually an arthropod, that is capable of transmitting a pathogen from one organism to another.
- (26) "Water supply watershed" means an area from which water drains to a point or impoundment, and the water is then used as a source for a public water supply.
- (27) "Water table" means the upper limit of the portion of the ground wholly saturated with water.
- (28) "Working face" means that portion of the land disposal site where solid wastes are discharged, spread, and compacted prior to the placement of cover material.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0102 APPLICABILITY

These solid waste disposal rules are for general application throughout the State of North Carolina unless otherwise specifically indicated by their context. The official policy and purpose of the State of North Carolina in regard to solid waste control is set forth in G.S. 130-166.16 through -166.21.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0103 GENERAL CONDITIONS

(a) All solid waste shall be stored, collected, transported, separated, processed, recycled, recovered, and disposed of in a manner consistent with the requirements of these rules. The division of health services is responsible for the enforcement of these rules and encourages cooperation from individuals, municipalities, county governments, sanitary and regional districts, and private enterprise.

(b) Notwithstanding .0103(a) of this section, no radioactive solid wastes shall be collected and transported, stored, treated, processed, disposed of or reclaimed, except as specifically authorized by a radioactive material license issued by the division of facility services, Department of Human Resources.

(c) These rules shall not apply to the disposal of solid waste accumulated by an individual or individual family or household unit and disposed of on his own property. Authority for regulation of these wastes lies with boards of county commissioners, cities and towns, and local boards of health as specified by G.S. 153A-121 through -137, G.S. 153A-274 through -292, G.S. 160A-74 through -195, and G.S. 130-13 through -23.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0104 SOLID WASTE STORAGE

(a) The owner or occupant of any premise, business establishment, or industry shall be responsible for the sanitary storage of all solid waste accumulated at that premise, business establishment, or industry, except as exempt by statute.

(b) Garbage shall be stored in durable rust resistant, non-absorbent, water tight, rodent proof, and easily cleanable containers with a close fitting fly-tight cover and with adequate handles or bails to facilitate handling, or other types of containers acceptable to the local governing agency and conforming to the intent of this section.

(c) Refuse shall be stored in durable containers or as otherwise provided in this section. Where garbage is stored in combination with non-putrescible refuse, containers for the storage of the mixture shall meet the requirements for garbage containers.

\* (d) Hazardous solid waste, pending disposal, shall be stored in containers and at locations prescribed in the applicable state or federal rules and regulations for control of the specific hazardous material.

(e) All containers for the storage of solid waste shall be maintained in such a manner as to prevent the creation of a nuisance or insanitary conditions. Containers that are broken or otherwise fail to meet this rule shall be replaced with acceptable containers. Refuse too large or otherwise not suitable for storage in containers shall be stored in a nuisance free manner consistent with requirements with the local governing agency.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0105 COLLECTION AND TRANSPORTATION OF SOLID WASTE

(a) The solid waste collector shall be responsible for the satisfactory collection and transportation of all solid waste to a disposal site or facility.

(b) Vehicles or containers used for the collection and transportation of garbage, or refuse containing garbage, shall be covered, leakproof, durable and of easily cleanable construction. These shall be cleaned as often as necessary to prevent a nuisance or insect breeding, and shall be maintained in good repair.

(c) Vehicles or containers used for the collection and transportation of any solid waste shall be loaded and moved in such a

manner that the contents will not fall, leak or spill therefrom, and shall be covered when necessary to prevent blowing of material. If spillage should occur, the material shall be picked up immediately by the solid waste collector and returned to the vehicle or container and the area properly cleaned.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0106 SOLID WASTE MANAGEMENT FACILITIES

All facilities used in the treatment and processing of solid waste for final disposal, or for utilization by reclaiming or recycling prior to final disposal, shall be operated in such a manner as to prevent the creation of a nuisance, insanitary condition, or potential public health hazard. Facilities used in sorting, separating, reducing, shredding, compressing, reclaiming, recycling, and other associate processes shall conform to these rules. The division of health services reserves the right to request submission of plans for approval to evaluate site location, design, operational techniques and procedures, and overall sanitation aspects of any facility used in the treatment, processing, or utilization of solid waste.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0107 DISPOSAL OF SOLID WASTE

The disposal of solid waste shall be by the following approved methods or any combination thereof:

- (1) Sanitary landfill;
- (2) Approved incinerator; or,
- (3) Disposal by other sanitary methods which may be developed and demonstrated to be capable of fulfilling the basic requirements of these rules and which have been approved by the division of health services.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0108 SITE AND PLAN APPROVAL

(a) No person shall establish a solid waste disposal facility or other facilities for solid waste management without first obtaining site and operational plan approval from the division of health services.

(b) Request for approval of site locations shall be submitted to the division of health services in writing. Approval by the division of health services shall be based on site appraisals,

and such approval shall be obtained prior to submission of the operational plan for the facility. Approvals or denials of proposed site locations shall be made in writing by the division of health services.

(c) Each request for approval of sanitary landfill sites, operational plans, and other facilities for solid waste management shall be accompanied by the information and data required by .0111 and .0112 of this section and other applicable rules.

(d) Requests for approval of facilities and equipment for solid waste management and operations submitted by a private agency shall be accompanied by an approval letter from the local governmental agency having zoning authority over the area where the operations are to be located.

(e) Plans for the design, construction, and operation of new sites and new facilities or modifications to existing sites or facilities shall be prepared by a professional engineer or others having sufficient expertise to satisfy the requirements of these rules.

(f) Upon receipt of the request for approval, the division of health services shall review the request to assure that all provisions of these rules are met and that proposed facilities and operations will comply with other applicable state laws and rules. Based on its review, the division of health services shall either approve or deny the request in writing.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0109 GENERAL CONDITION OF APPROVAL

Site approval for sanitary landfill sites shall be issued for areas only where the sanitary landfill rules can be maintained. Areas of special concern are those having high water tables, floodplains, and special stream and reservoir classifications.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0110 DENIAL OR CANCELLATION OF APPROVAL

When a request for approval is denied or an approval is cancelled, the person shall be notified in writing of the reasons therefore. A denial or cancellation shall be without prejudice to the person's right to a hearing before the commission for health services or for filing a future request after revisions are made to meet objections specified as reasons for the denial or cancellation.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0111 SANITARY LANDFILL SITE

For review and evaluation, the following information shall be presented in triplicate to the division of health services for each proposed sanitary landfill site:

(1) Map or aerial photograph of sufficient scale to provide the following:

- (1) Entire property owned or leased by the person proposing the sanitary landfill;
- (2) Land use and zoning within one-fourth mile of the disposal site;
- (3) Location of all homes, industrial buildings, public or private utilities, and roads; and,
- (4) Location of wells, watercourses, dry runs, rock outcroppings, and other applicable details regarding the general topography.

(2) Soil borings shall be made to provide sufficient information for an evaluation of subsurface conditions that exist at the site. The data shall include:

- (1) Sufficient soil borings to provide geological data of the area planned for the proposed sanitary landfill. Soil borings shall be plotted relative to the boundaries of the proposed operational area.
- (2) The location of a bench mark that will not be destroyed during landfill development. From the bench mark, the ground elevation of each individual boring shall be determined and plotted.
- (3) Soil borings that extend ten feet below the lowest proposed excavation and one boring at the lowest elevation of the planned operational area.
- (4) A log of the soil borings in order that soil types and classifications can be determined and boring profiles plotted that will coincide with operational cross-sectional drawings as much as possible.
- (5) Ground water elevations at the time of boring and 24 hours later along with other pertinent geological information.
- (6) When the cover material is to be obtained from sources other than the proposed disposal site, information from soil borings shall be provided, if necessary, showing the subsurface conditions of borrow areas.
- (3) Soil classifications shall be made by the use of the Unified Soil Classification System, the U. S. Department of Agriculture Classification, or other available systems that provide an adequate soil description.

*2 readings on GA boring SCS*

*Show Elev. of Borings*

*EA. How many Borings - SCS*

*on for 10-15 Borings?*

*Make  
Additional  
MAPP - showing  
Streams*

- (4) Identify watercourses within or adjacent to the sanitary landfill areas and if no watercourse is involved, indicate the watershed by name which will receive the drainage from the site.
- (5) Any other information pertinent to the proposed site.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0112 SANITARY LANDFILL OPERATIONAL PLANS

For review, evaluation, and approval three sets of the operational plans shall be submitted to the division of health services and shall include:

*ob  
we  
have to  
submit*

- (1) A plot plan of the proposed site showing dimensions, entrance and access roads. *as is now*
- (2) The location of existing utilities and structures.
- (3) Contour maps of the original topography on a scale no greater than 200 feet per inch and five-foot contours.
- (4) Sufficient cross-sectional drawings or contour maps so that the proposed finished elevations of the filled area can be accurately determined. Cross-section drawings showing original elevations, the proposed excavation depths, and depths to the water table, if encountered.
- (5) The location of proposed utilities, on-site structures for equipment storage or employee usage, and weighing facilities, if planned.
- (6) The proposed method of landfiling, such as trenching, ramping and diking, or area filling.
- (7) Provisions for controlling of fill slopes on the outer face of peripheral dikes and face of the finished sanitary landfill.
- (8) Provisions for controlling erosion on all completed areas.
- (9) Procedures for promoting vegetative growth as soon as possible on all completed areas.
- (10) Sufficient buffer width along man-made or natural watercourses to confine visible siltation within the buffer zone. *↳ Burlap bag barriers.*
- (11) Measures, structures, and devices designed and constructed so as to provide effective control for calculated peak rate of runoff from such storm frequency as indicated by the degree of protection needed in the design area. *↳ possible  
Terraces  
Asphalt  
Spillways*

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0113 RECORDATION

A description of the landfill site that would be sufficient as a description in an instrument of conveyance shall be provided to initiate site recordation procedures described in G.S. 130-166.21.

*Legal description*

History Note: Statutory Authority G.S. 130-166.21;  
Eff. February 1, 1976.

.0114 REPORT

A report shall accompany the plans indicating the following:

- (1) Population and area expected to be served by the proposed site.
- (2) Anticipated type, quantity, and source of material to be disposed of at the site.
- (3) Type and number of pieces of equipment to be provided at the site for excavating, earth moving, spreading, compacting, covering, and other needs.
- (4) Name of individual responsible for operation and maintenance of the site.
- (5) Projected use of land after completion of the sanitary landfill.
- (6) Anticipated lifetime of project.
- (7) Any other information pertinent to the proposed operational plan.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0115 SITE ACCEPTANCE CONDITIONS

Prior to receiving solid waste on any new site, the following requirements shall be met:

- (1) Recordation of the order of approval.
- (2) Site preparation shall be complete and an inspection shall be made by a representative of the division of health services for final approval prior to the facility becoming operational.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0116 OPERATIONAL REQUIREMENTS FOR SANITARY LANDFILLS

Any person who maintains or operates a sanitary landfill site shall maintain and operate the site in conformance with the following practices unless otherwise allowed by the division of health services in granting the required approval:

- (1) Operational plans shall be approved and followed.

- (2) Solid waste shall be restricted to the smallest area feasible, compacted as densely as practical into cells, and a proper slope on the working face shall be maintained.
- (3) Solid waste shall be covered after each day of operation, or as specified by the division of health services, with a compacted layer of at least six inches of suitable cover.
- (4) Within one month after final termination of disposal operations at the site or a major part thereof, the area shall be covered with at least two feet of compacted earth adequately sloped to allow surface water runoff in a controlled manner without excessive erosion.
- (5) The finished surface of the filled area shall be covered with adequate topsoil and seeded with native grasses or other suitable vegetation immediately upon completion or as soon as practical. If necessary, seeded slopes shall be covered with straw or similar material to prevent erosion.
- (6) Adequate erosion control measures shall be practiced.
- (7) An attendant shall be on duty at the site at all times while it is open for public use.
- (8) The approach road to the site shall be of all-weather construction and maintained in good condition.
- (9) Dust control measures should be implemented where necessary.
- (10) Surface water shall be diverted from the operational area.
- (11) Disposal of solid waste in water is prohibited.
- (12) Open burning of solid waste is prohibited.
- (13) Equipment shall be provided to control accidental fires or arrangements made with the local fire protection agency to immediately provide fire-fighting services when needed.
- (14) Spoiled foods, animal carcasses, abattoir waste, hatchery waste, and other animal waste delivered to the disposal site shall be compacted and covered immediately and separately from the routine solid waste.
- (15) No hazardous wastes shall be disposed of in a sanitary landfill except as may be permitted by the division of health services.
- (16) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin when necessary.
- (17) Appropriate methods such as fencing and diking shall be provided to confine possible windblown material within the area. 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.
- (18) Signs providing information on dumping procedures and indicating the hours during which the site is open for public use, and other pertinent information shall be posted at the site entrance.
  - (19) 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.
  - (20) Prior to termination of operations at a sanitary landfill site the division of health services shall be notified in order that a site inspection may be made by the division of health services to determine compliance with closing procedures before earth moving equipment is removed from the property.
  - (21) Once a solid waste disposal site has been closed in accordance with the requirements of the division of health services, future necessary maintenance shall be the responsibility of the owner.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

\* .0117 INCINERATOR OPERATION

(a) All incinerators shall be designed and operated in a manner so as to prevent the creation of a nuisance or potential health hazard and must comply with the applicable requirements of these rules and those of the division of environmental management, Department of Natural and Economic Resources.

(b) Construction of an incinerator shall not be initiated prior to the approval of site plans by the division of health services. Such plans must be accompanied by a written approval of the incinerator from the division of environmental management and by a written statement from the governmental agency having zoning authority that the proposed incinerator site has been approved.

(c) Each proposed incinerator installation shall be in compliance with the following criteria:

- (1) The incinerator plant shall be so situated, equipped, operated, and maintained as to minimize interference with other activities in the area.
- (2) All solid waste to be disposed of at the site shall be confined to the dumping area. Adequate storage facilities shall be provided.
- (3) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin.

- (4) Equipment shall be provided in the storage and charging areas and elsewhere as needed or as may be required in order to maintain the plant in a sanitary condition.
- (5) All residue from the incinerator plant shall be promptly disposed of at an approved site and in a manner consistent with the applicable sections of these rules.
- \* (6) Upon completion of construction of the incinerator facility and prior to initial operation, the division of health services shall be notified in order that an inspection may be made of the facility to determine conformance with the approved plan and with the applicable provisions of these rules.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0118 VARIANCES

(a) In order to avoid undue hardships, promote the effective and reasonable application and enforcement of these rules, the division of health services may grant variances from the requirements of these rules in accordance with such procedures and conditions as it may prescribe. Each application for variance shall be examined on the basis of conditions prohibiting full compliance.

(b) Variable factors such as population density, daily or seasonal loadings, nature of wastes, location of facility or facilities, water table conditions, topography, soil and geology, climate, land use, stream reservoir classification are to be taken into account in determining the degree of variance, if any, which may be allowed.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0119 LIMITATIONS

Nothing in these rules shall be construed to limit the authority of municipal and county governments or sanitary districts from adopting more stringent solid waste disposal requirements than those set forth in these rules.

History Note: Statutory Authority G.S. 130-17;  
Eff. February 1, 1976.

**.0120 SEVERABILITY**

If any provision of these rules or its application to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of the rules which can be given effect without the invalid provisions or applications, and to this end the provisions of these rules are declared to be severable.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

**.0121 PENALTIES, INJUNCTIONS**

If any person shall violate any rules adopted by the Commission for Health Services, he shall be guilty of a misdemeanor and punishable by a fine not to exceed fifty dollars (\$50.00) or by imprisonment not to exceed thirty (30) days, as provided by G.S. 130-203. G.S. 130-205 further provides for injunctive relief against such continued violation, threatened violation, hindrance, or interference.

History Note: Statutory Authority G.S. 130-203; 130-205;  
Eff. February 1, 1976.

**.0122 REFERENCE RULE**

The Commission for Health Services adopts by reference the United States Department of Agriculture Textural Classification Chart which can be found in "Sanitary Landfill Design and Operation", EPA publication (SW-65ts) for sale by the Superintendent of Documents, United States Printing Office, Washington, D.C. at a charge of \$.65.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

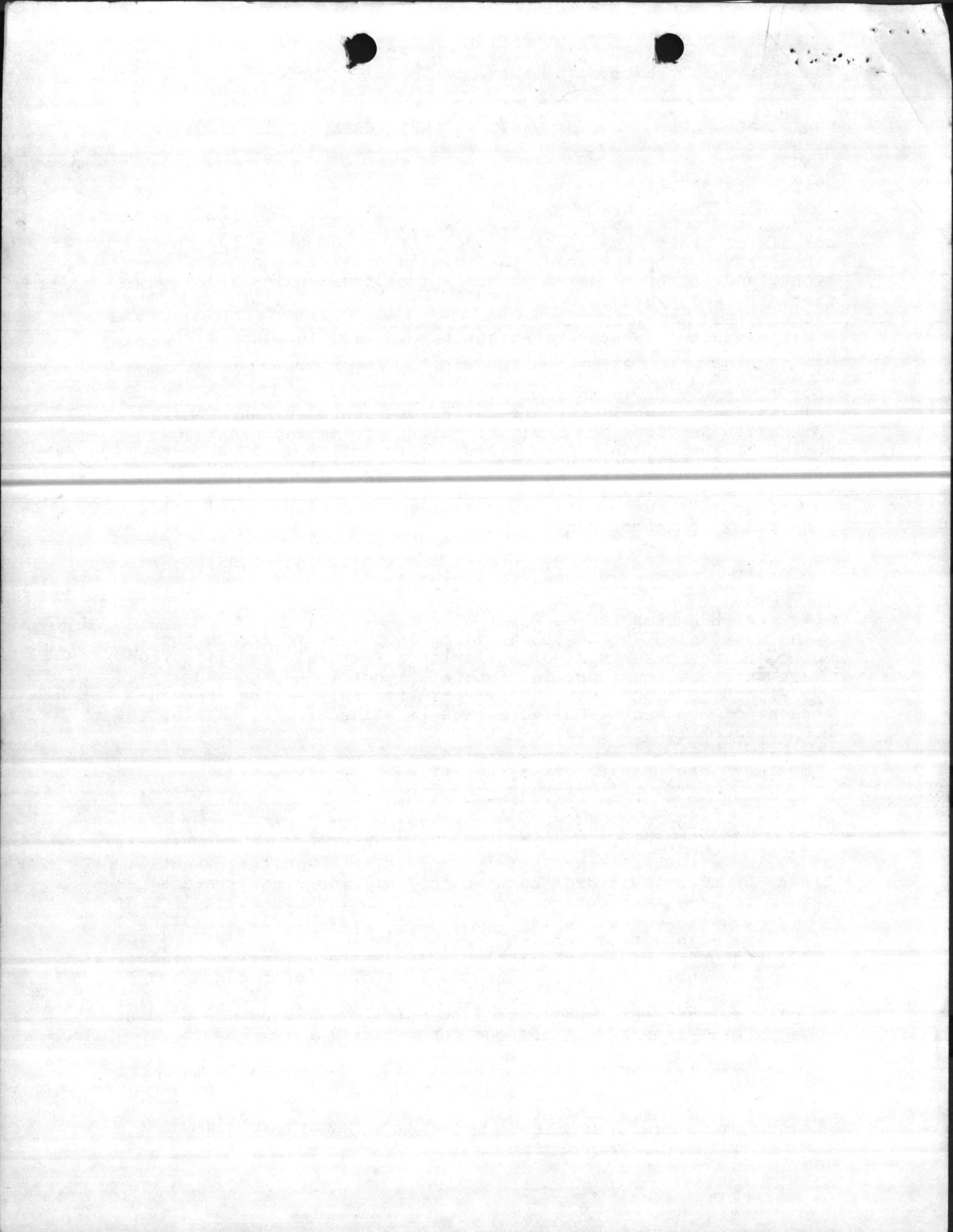
**.0123 NONCONFORMING SITES AND FACILITIES**

A person operating or having operated an open dump for disposal of solid waste shall immediately convert to a sanitary landfill or close the site in accordance with the following requirements:

- (1) Implement effective rat control, including baiting for at least two weeks after closing, to prevent rat migration to adjacent properties.
- (2) Compact and cover existing solid waste. Final cover for the entire area shall be two feet or more of compacted earth.
- (3) Implement erosion control measures by grading and seeding.
- (4) Post signs indicating the dump site closure.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. April 23, 1976.

NOTE: "THE FORM OF THIS RULE MAY BE REVISED BY THE ATTORNEY GENERAL PURSUANT TO THE PROVISIONS OF G.S. 150A-61."





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STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

JAMES B. HUNT, JR.  
GOVERNOR

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR

SARAH T. MORROW, M.D., M.P.H.  
SECRETARY

P. O. Box 2091

Raleigh 27602

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,

A handwritten signature in cursive script that reads "J. Gordon Layton".

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



STATE OF NORTH CAROLINA

JAMES B. HUNTER  
GOVERNOR

DEPARTMENT OF HUMAN RESOURCES

JAMES B. HUNTER  
GOVERNOR

JOHN W. WOOD  
COMMISSIONER

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SOLID WASTE MANAGEMENT RULES

Prepared by the Department of Human Resources  
Division of Health Services  
Sanitary Engineering Section

Recodified February 1, 1976

#411

GENERAL INFORMATION

Department of Human Resources  
Division of Health Services  
1000 University Avenue  
Berkeley, California 94720  
Telephone: (415) 841-2000

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## SUBCHAPTER 10C - SOLID WASTE AND VECTOR CONTROL

## SECTION .0100 - SOLID WASTE MANAGEMENT

## .0101 DEFINITIONS

The following words and phrases shall have the meanings ascribed to them in this section and as ascribed by law:

- (1) "Garbage" means all putrescible wastes, including animal and vegetable matter, animal offal and carcasses, and recognizable industrial by-products, but excluding sewage and human wastes.
- (2) "Natural resources" means all materials which have useful physical or chemical properties which exist, unused, in nature.
- (3) "Recycling" means the process by which recovered resources are transformed into new products in such a manner that the original products lose their identity.
- (4) "Refuse" means all non-putrescible wastes.
- (5) "Resource recovery" means the process of obtaining material or energy resources from solid waste.
- (6) "Solid waste" means garbage, refuse, rubbish, trash, and other discarded solid materials, including solid waste materials resulting from industrial, commercial, and agricultural operations, and from community activities, but does not include solids or dissolved materials in domestic sewage or other significant pollutants in water resources, such as silt, dissolved or suspended solids in industrial waste water effluents, dissolved materials in irrigation return flows or other common water pollutants.
- (7) "Solid waste disposal" means the collection, storage, treatment, utilization, processing, or final disposal of solid waste.
- (8) "Solid waste disposal facility" means land, personnel, equipment, or other resources used in the disposal of solid wastes.
- (9) "Solid waste disposal site" means any place at which solid wastes are disposed of by incineration, sanitary landfill or any other methods.
- (10) "Solid waste management" means the purposeful, systematic control of the generation, storage, collection, transport, separation, processing, recycling, recovery and disposal of solid waste.
- (11) "Cell" means compacted solid waste completely enveloped by a compacted cover material.

- (12) "Division of health services" means the director or his authorized representative.
- (13) "Hazardous solid wastes" includes but is not limited to explosives, pathological wastes, pesticides, chemicals, and other toxic materials which are harmful to public health.
- (14) "Incineration" means the process of burning solid, semi-solid or gaseous combustible wastes to an inoffensive gas and a residue containing little or no combustible material.
- (15) "Local governing agency" refers to incorporated cities, counties, and special purpose districts which are empowered to undertake solid waste management programs.
- (16) "Open burning" means any fire wherein the products of combustion are emitted directly into the outdoor atmosphere and are not directed thereto through a stack or chimney, incinerator, or other similar devices.
- (17) "Open dump" means the consolidation of solid waste from one or more sources at a disposal site which has insanitary conditions, little or no cover, usually burning, and little or no management.
- (18) "Person" means any individual, firm, governmental unit, organization, partnership, corporation, or company.
- (19) "Putrescible" means solid waste capable of being decomposed by microorganisms with sufficient rapidity as to cause nuisances from odors and gases, such as kitchen wastes, offal and carcasses.
- (20) "Radioactive solid waste" means any radioactive material.
- (21) "Runoff" means the portion of precipitation that drains from an area as surface flow.
- (22) "Sanitary landfill" means a planned method of disposing of solid waste on land in a sanitary manner without creating nuisances or hazards to public health or safety by utilizing the principles of engineering to confine the solid waste to the smallest practical area, to reduce it to the smallest practical volume, and to cover it with a layer of compacted earth at the conclusion of each day's operation or at such more frequent intervals as may be necessary.
- (23) "Solid waste collector" means any person who collects or transports solid waste.
- (24) "Spoiled food" means any food which has been removed from sale by the United States Department of Agriculture, North Carolina Department of Agriculture, Food and Drug Administration, or any other regulatory agency having jurisdiction in judging food unfit for consumption.

- (25) "Vector" means a carrier, usually an arthropod, that is capable of transmitting a pathogen from one organism to another.
- (26) "Water supply watershed" means an area from which water drains to a point or impoundment, and the water is then used as a source for a public water supply.
- (27) "Water table" means the upper limit of the portion of the ground wholly saturated with water.
- (28) "Working face" means that portion of the land disposal site where solid wastes are discharged, spread, and compacted prior to the placement of cover material.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0102 APPLICABILITY

These solid waste disposal rules are for general application throughout the State of North Carolina unless otherwise specifically indicated by their context. The official policy and purpose of the State of North Carolina in regard to solid waste control is set forth in G.S. 130-166.16 through -166.21.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0103 GENERAL CONDITIONS

(a) All solid waste shall be stored, collected, transported, separated, processed, recycled, recovered, and disposed of in a manner consistent with the requirements of these rules. The division of health services is responsible for the enforcement of these rules and encourages cooperation from individuals, municipalities, county governments, sanitary and regional districts, and private enterprise.

(b) Notwithstanding .0103(a) of this section, no radioactive solid wastes shall be collected and transported, stored, treated, processed, disposed of or reclaimed, except as specifically authorized by a radioactive material license issued by the division of facility services, Department of Human Resources.

(c) These rules shall not apply to the disposal of solid waste accumulated by an individual or individual family or household unit and disposed of on his own property. Authority for regulation of these wastes lies with boards of county commissioners, cities and towns, and local boards of health as specified by G.S. 153A-121 through -137, G.S. 153A-274 through -292, G.S. 160A-74 through -195, and G.S. 130-13 through -23.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0104 SOLID WASTE STORAGE

(a) The owner or occupant of any premise, business establishment, or industry shall be responsible for the sanitary storage of all solid waste accumulated at that premise, business establishment, or industry, except as exempt by statute.

(b) Garbage shall be stored in durable rust resistant, non-absorbent, water tight, rodent proof, and easily cleanable containers with a close fitting fly-tight cover and with adequate handles or bails to facilitate handling, or other types of containers acceptable to the local governing agency and conforming to the intent of this section.

(c) Refuse shall be stored in durable containers or as otherwise provided in this section. Where garbage is stored in combination with non-putrescible refuse, containers for the storage of the mixture shall meet the requirements for garbage containers.

(d) Hazardous solid waste, pending disposal, shall be stored in containers and at locations prescribed in the applicable state or federal rules and regulations for control of the specific hazardous material.

(e) All containers for the storage of solid waste shall be maintained in such a manner as to prevent the creation of a nuisance or insanitary conditions. Containers that are broken or otherwise fail to meet this rule shall be replaced with acceptable containers. Refuse too large or otherwise not suitable for storage in containers shall be stored in a nuisance free manner consistent with requirements with the local governing agency.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0105 COLLECTION AND TRANSPORTATION OF SOLID WASTE

(a) The solid waste collector shall be responsible for the satisfactory collection and transportation of all solid waste to a disposal site or facility.

(b) Vehicles or containers used for the collection and transportation of garbage, or refuse containing garbage, shall be covered, leakproof, durable and of easily cleanable construction. These shall be cleaned as often as necessary to prevent a nuisance or insect breeding, and shall be maintained in good repair.

(c) Vehicles or containers used for the collection and transportation of any solid waste shall be loaded and moved in such a

manner that the contents will not fall, leak or spill therefrom, and shall be covered when necessary to prevent blowing of material. If spillage should occur, the material shall be picked up immediately by the solid waste collector and returned to the vehicle or container and the area properly cleaned.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0106 SOLID WASTE MANAGEMENT FACILITIES

All facilities used in the treatment and processing of solid waste for final disposal, or for utilization by reclaiming or recycling prior to final disposal, shall be operated in such a manner as to prevent the creation of a nuisance, insanitary condition, or potential public health hazard. Facilities used in sorting, separating, reducing, shredding, compressing, reclaiming, recycling, and other associate processes shall conform to these rules. The division of health services reserves the right to request submission of plans for approval to evaluate site location, design, operational techniques and procedures, and overall sanitation aspects of any facility used in the treatment, processing, or utilization of solid waste.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0107 DISPOSAL OF SOLID WASTE

The disposal of solid waste shall be by the following approved methods or any combination thereof:

- (1) Sanitary landfill;
- (2) Approved incinerator; or,
- (3) Disposal by other sanitary methods which may be developed and demonstrated to be capable of fulfilling the basic requirements of these rules and which have been approved by the division of health services.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0108 SITE AND PLAN APPROVAL

(a) No person shall establish a solid waste disposal facility or other facilities for solid waste management without first obtaining site and operational plan approval from the division of health services.

(b) Request for approval of site locations shall be submitted to the division of health services in writing. Approval by the division of health services shall be based on site appraisals,

and such approval shall be obtained prior to submission of the operational plan for the facility. Approvals or denials of proposed site locations shall be made in writing by the division of health services.

(c) Each request for approval of sanitary landfill sites, operational plans, and other facilities for solid waste management shall be accompanied by the information and data required by .0111 and .0112 of this section and other applicable rules.

(d) Requests for approval of facilities and equipment for solid waste management and operations submitted by a private agency shall be accompanied by an approval letter from the local governmental agency having zoning authority over the area where the operations are to be located.

(e) Plans for the design, construction, and operation of new sites and new facilities or modifications to existing sites or facilities shall be prepared by a professional engineer or others having sufficient expertise to satisfy the requirements of these rules.

(f) Upon receipt of the request for approval, the division of health services shall review the request to assure that all provisions of these rules are met and that proposed facilities and operations will comply with other applicable state laws and rules. Based on its review, the division of health services shall either approve or deny the request in writing.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0109 GENERAL CONDITION OF APPROVAL

Site approval for sanitary landfill sites shall be issued for areas only where the sanitary landfill rules can be maintained. Areas of special concern are those having high water tables, floodplains, and special stream and reservoir classifications.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0110 DENIAL OR CANCELLATION OF APPROVAL

When a request for approval is denied or an approval is cancelled, the person shall be notified in writing of the reasons therefore. A denial or cancellation shall be without prejudice to the person's right to a hearing before the commission for health services or for filing a future request after revisions are made to meet objections specified as reasons for the denial or cancellation.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

.0111 SANITARY LANDFILL SITE

For review and evaluation, the following information shall be presented in triplicate to the division of health services for each proposed sanitary landfill site:

- (1) Map or aerial photograph of sufficient scale to provide the following:
  - (1) Entire property owned or leased by the person proposing the sanitary landfill;
  - (2) Land use and zoning within one-fourth mile of the disposal site;
  - (3) Location of all homes, industrial buildings, public or private utilities, and roads; and,
  - (4) Location of wells, watercourses, dry runs, rock outcroppings, and other applicable details regarding the general topography.
- (2) Soil borings shall be made to provide sufficient information for an evaluation of subsurface conditions that exist at the site. The data shall include:
  - (1) Sufficient soil borings to provide geological data of the area planned for the proposed sanitary landfill. Soil borings shall be plotted relative to the boundaries of the proposed operational area.
  - (2) The location of a bench mark that will not be destroyed during landfill development. From the bench mark, the ground elevation of each individual boring shall be determined and plotted.
  - (3) Soil borings that extend ten feet below the lowest proposed excavation and one boring at the lowest elevation of the planned operational area.
  - (4) A log of the soil borings in order that soil types and classifications can be determined and boring profiles plotted that will coincide with operational cross-sectional drawings as much as possible.
  - (5) Ground water elevations at the time of boring and 24 hours later along with other pertinent geological information.
  - (6) When the cover material is to be obtained from sources other than the proposed disposal site, information from soil borings shall be provided, if necessary, showing the subsurface conditions of borrow areas.
- (3) Soil classifications shall be made by the use of the Unified Soil Classification System, the U. S. Department of Agriculture Classification, or other available systems that provide an adequate soil description.

- (4) Identify watercourses within or adjacent to the sanitary landfill areas and if no watercourse is involved, indicate the watershed by name which will receive the drainage from the site.
- (5) Any other information pertinent to the proposed site.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0112 SANITARY LANDFILL OPERATIONAL PLANS

For review, evaluation, and approval three sets of the operational plans shall be submitted to the division of health services and shall include:

- (1) A plot plan of the proposed site showing dimensions, entrance and access roads.
- (2) The location of existing utilities and structures.
- (3) Contour maps of the original topography on a scale no greater than 200 feet per inch and five-foot contours.
- (4) Sufficient cross-sectional drawings or contour maps so that the proposed finished elevations of the filled area can be accurately determined. Cross-section drawings showing original elevations, the proposed excavation depths, and depths to the water table, if encountered.
- (5) The location of proposed utilities, on-site structures for equipment storage or employee usage, and weighing facilities, if planned.
- (6) The proposed method of landfilling, such as trenching, ramping and diking, or area filling.
- (7) Provisions for controlling of fill slopes on the outer face of peripheral dikes and face of the finished sanitary landfill.
- (8) Provisions for controlling erosion on all completed areas.
- (9) Procedures for promoting vegetative growth as soon as possible on all completed areas.
- (10) Sufficient buffer width along man-made or natural watercourses to confine visible siltation within the buffer zone.
- (11) Measures, structures, and devices designed and constructed so as to provide effective control for calculated peak rate of runoff from such storm frequency as indicated by the degree of protection needed in the design area.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

**.0113 RECORDATION**

A description of the landfill site that would be sufficient as a description in an instrument of conveyance shall be provided to initiate site recordation procedures described in G.S. 130-166.21.

History Note: Statutory Authority G.S. 130-166.21;  
Eff. February 1, 1976.

**.0114 REPORT**

A report shall accompany the plans indicating the following:

- (1) Population and area expected to be served by the proposed site.
- (2) Anticipated type, quantity, and source of material to be disposed of at the site.
- (3) Type and number of pieces of equipment to be provided at the site for excavating, earth moving, spreading, compacting, covering, and other needs.
- (4) Name of individual responsible for operation and maintenance of the site.
- (5) Projected use of land after completion of the sanitary landfill.
- (6) Anticipated lifetime of project.
- (7) Any other information pertinent to the proposed operational plan.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

**.0115 SITE ACCEPTANCE CONDITIONS**

Prior to receiving solid waste on any new site, the following requirements shall be met:

- (1) Recordation of the order of approval.
- (2) Site preparation shall be complete and an inspection shall be made by a representative of the division of health services for final approval prior to the facility becoming operational.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

**.0116 OPERATIONAL REQUIREMENTS FOR SANITARY LANDFILLS**

Any person who maintains or operates a sanitary landfill site shall maintain and operate the site in conformance with the following practices unless otherwise allowed by the division of health services in granting the required approval:

- (1) Operational plans shall be approved and followed.

- (2) Solid waste shall be restricted to the smallest area feasible, compacted as densely as practical into cells, and a proper slope on the working face shall be maintained.
- (3) Solid waste shall be covered after each day of operation, or as specified by the division of health services, with a compacted layer of at least six inches of suitable cover.
- (4) Within one month after final termination of disposal operations at the site or a major part thereof, the area shall be covered with at least two feet of compacted earth adequately sloped to allow surface water runoff in a controlled manner without excessive erosion.
- (5) The finished surface of the filled area shall be covered with adequate topsoil and seeded with native grasses or other suitable vegetation immediately upon completion or as soon as practical. If necessary, seeded slopes shall be covered with straw or similar material to prevent erosion.
- (6) Adequate erosion control measures shall be practiced.
- (7) An attendant shall be on duty at the site at all times while it is open for public use.
- (8) The approach road to the site shall be of all-weather construction and maintained in good condition.
- (9) Dust control measures should be implemented where necessary.
- (10) Surface water shall be diverted from the operational area.
- (11) Disposal of solid waste in water is prohibited.
- (12) Open burning of solid waste is prohibited.
- (13) Equipment shall be provided to control accidental fires or arrangements made with the local fire protection agency to immediately provide fire-fighting services when needed.
- (14) Spoiled foods, animal carcasses, abattoir waste, hatchery waste, and other animal waste delivered to the disposal site shall be compacted and covered immediately and separately from the routine solid waste.
- (15) No hazardous wastes shall be disposed of in a sanitary landfill except as may be permitted by the division of health services.
- (16) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin when necessary.
- (17) Appropriate methods such as fencing and diking shall be provided to confine possible windblown material within the area. 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.
- (18) Signs providing information on dumping procedures and indicating the hours during which the site is open for public use, and other pertinent information shall be posted at the site entrance.
  - (19) 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.
  - (20) Prior to termination of operations at a sanitary landfill site the division of health services shall be notified in order that a site inspection may be made by the division of health services to determine compliance with closing procedures before earth moving equipment is removed from the property.
  - (21) Once a solid waste disposal site has been closed in accordance with the requirements of the division of health services, future necessary maintenance shall be the responsibility of the owner.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0117 INCINERATOR OPERATION

(a) All incinerators shall be designed and operated in a manner so as to prevent the creation of a nuisance or potential health hazard and must comply with the applicable requirements of these rules and those of the division of environmental management, Department of Natural and Economic Resources.

(b) Construction of an incinerator shall not be initiated prior to the approval of site plans by the division of health services. Such plans must be accompanied by a written approval of the incinerator from the division of environmental management and by a written statement from the governmental agency having zoning authority that the proposed incinerator site has been approved.

(c) Each proposed incinerator installation shall be in compliance with the following criteria:

- (1) The incinerator plant shall be so situated, equipped, operated, and maintained as to minimize interference with other activities in the area.
- (2) All solid waste to be disposed of at the site shall be confined to the dumping area. Adequate storage facilities shall be provided.
- (3) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin.

- (4) Equipment shall be provided in the storage and charging areas and elsewhere as needed or as may be required in order to maintain the plant in a sanitary condition.
- (5) All residue from the incinerator plant shall be promptly disposed of at an approved site and in a manner consistent with the applicable sections of these rules.
- (6) Upon completion of construction of the incinerator facility and prior to initial operation, the division of health services shall be notified in order that an inspection may be made of the facility to determine conformance with the approved plan and with the applicable provisions of these rules.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0118 VARIANCES

(a) In order to avoid undue hardships, promote the effective and reasonable application and enforcement of these rules, the division of health services may grant variances from the requirements of these rules in accordance with such procedures and conditions as it may prescribe. Each application for variance shall be examined on the basis of conditions prohibiting full compliance.

(b) Variable factors such as population density, daily or seasonal loadings, nature of wastes, location of facility or facilities, water table conditions, topography, soil and geology, climate, land use, stream reservoir classification are to be taken into account in determining the degree of variance, if any, which may be allowed.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

#### .0119 LIMITATIONS

Nothing in these rules shall be construed to limit the authority of municipal and county governments or sanitary districts from adopting more stringent solid waste disposal requirements than those set forth in these rules.

History Note: Statutory Authority G.S. 130-17;  
Eff. February 1, 1976.

**.0120 SEVERABILITY**

If any provision of these rules or its application to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of the rules which can be given effect without the invalid provisions or applications, and to this end the provisions of these rules are declared to be severable.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

**.0121 PENALTIES, INJUNCTIONS**

If any person shall violate any rules adopted by the Commission for Health Services, he shall be guilty of a misdemeanor and punishable by a fine not to exceed fifty dollars (\$50.00) or by imprisonment not to exceed thirty (30) days, as provided by G.S. 130-203. G.S. 130-205 further provides for injunctive relief against such continued violation, threatened violation, hindrance, or interference.

History Note: Statutory Authority G.S. 130-203; 130-205;  
Eff. February 1, 1976.

**.0122 REFERENCE RULE**

The Commission for Health Services adopts by reference the United States Department of Agriculture Textural Classification Chart which can be found in "Sanitary Landfill Design and Operation", EPA publication (SW-65ts) for sale by the Superintendent of Documents, United States Printing Office, Washington, D.C. at a charge of \$.65.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. February 1, 1976.

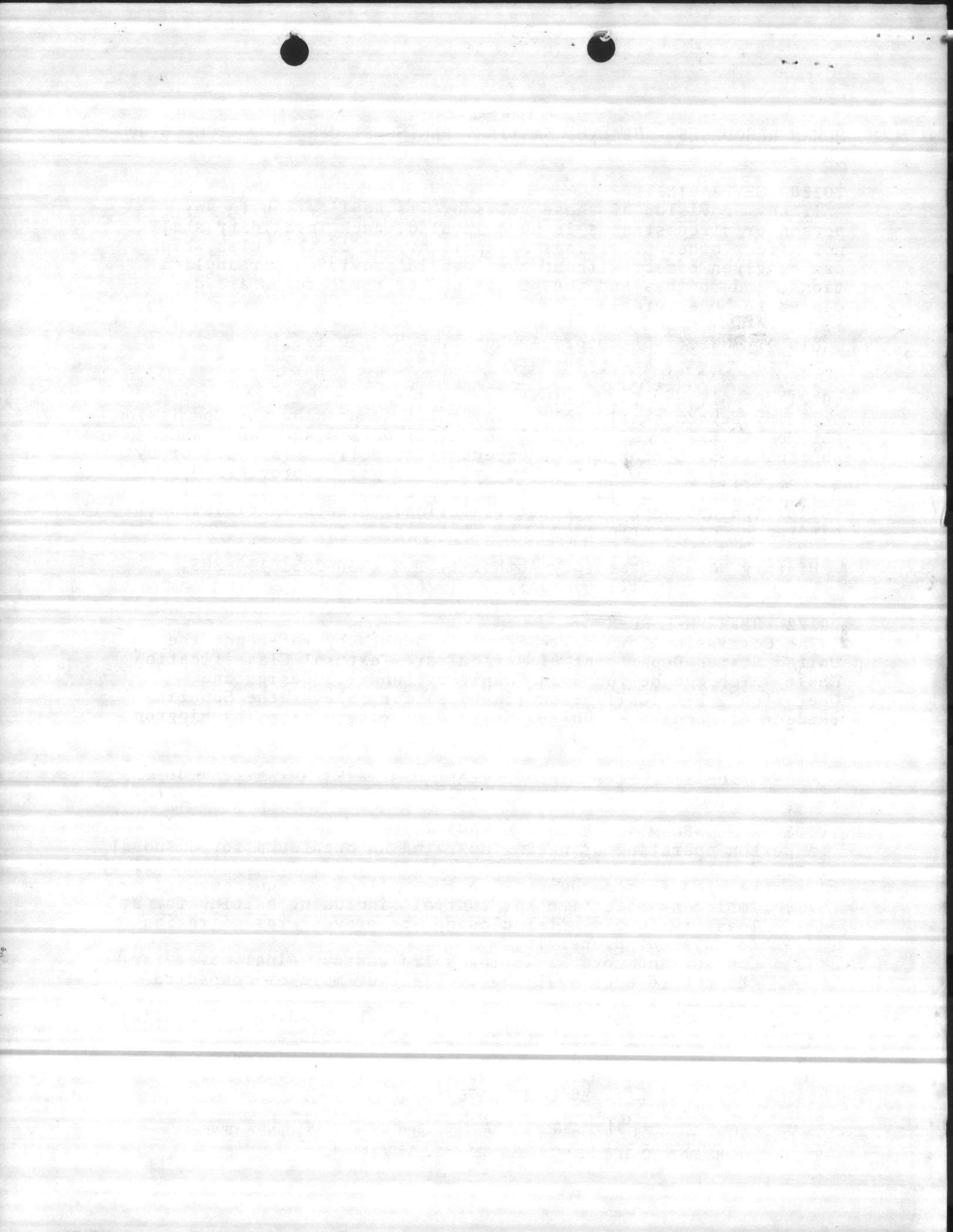
**.0123 NONCONFORMING SITES AND FACILITIES**

A person operating or having operated an open dump for disposal of solid waste shall immediately convert to a sanitary landfill or close the site in accordance with the following requirements:

- (1) Implement effective rat control, including baiting for at least two weeks after closing, to prevent rat migration to adjacent properties.
- (2) Compact and cover existing solid waste. Final cover for the entire area shall be two feet or more of compacted earth.
- (3) Implement erosion control measures by grading and seeding.
- (4) Post signs indicating the dump site closure.

History Note: Statutory Authority G.S. 130-166.18;  
Eff. April 23, 1976.

NOTE: "THE FORM OF THIS RULE MAY BE REVISED BY THE ATTORNEY GENERAL PURSUANT TO THE PROVISIONS OF G.S. 150A-61."



AUG 30, 1978

ACTION INFO INITIAL

|             |   |   |                      |
|-------------|---|---|----------------------|
| BMO         |   |   |                      |
| ABMO        |   | / | <i>BR</i>            |
| MAINT NCO   |   |   |                      |
| SAFETY CHMN |   |   |                      |
| PROP        |   |   |                      |
| M&R         | ✓ |   | <del><i>BR</i></del> |
| OPNS        |   |   |                      |
| ADMIN       |   |   |                      |
| TELE        |   |   |                      |
| UTIL        |   |   |                      |
| ENVIRON AFF |   | ✓ | <i>BR</i>            |
| SECRETARY   |   |   |                      |
| F&A BRANCH  |   |   |                      |
| UMACS       |   |   |                      |
| MME         |   |   |                      |

Don,

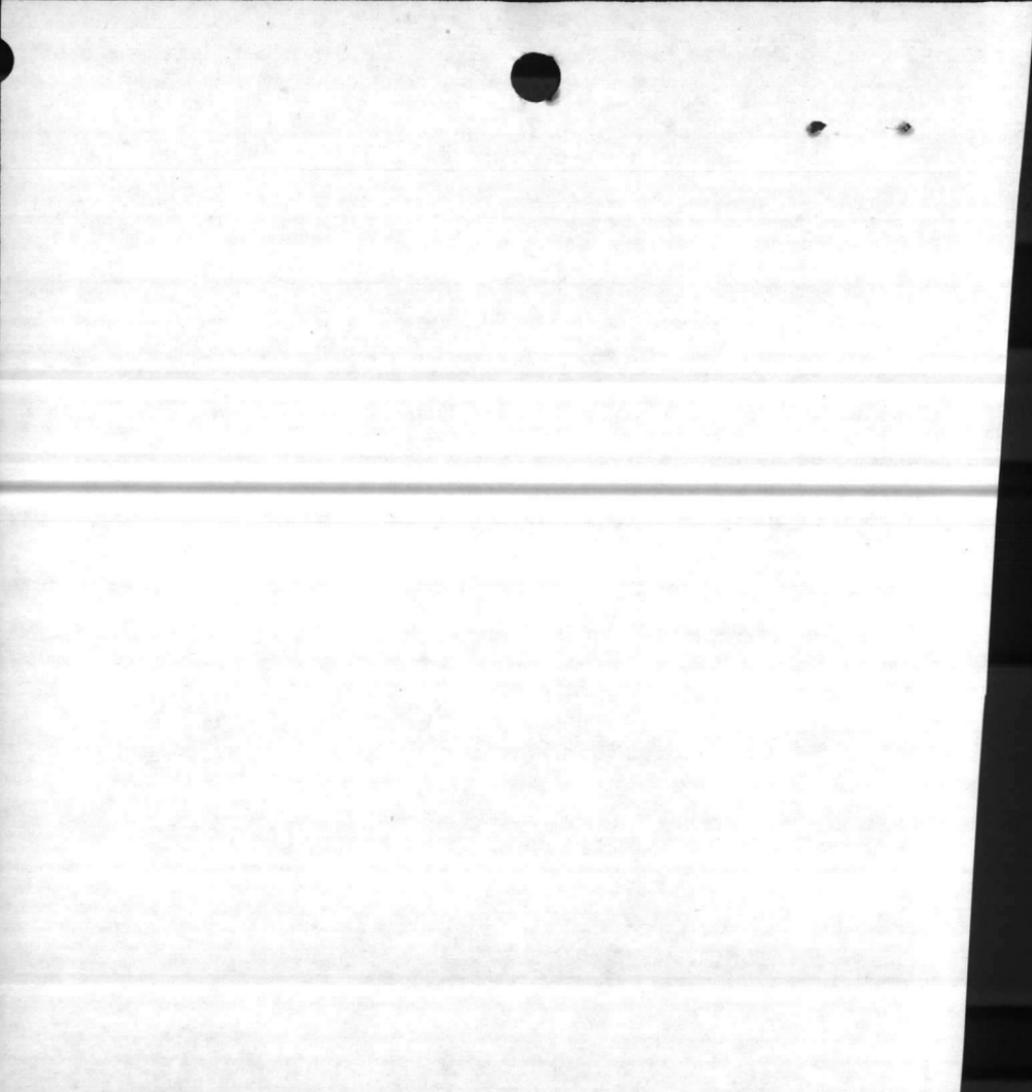
Suggest you talk with  
 Linda Shearon, at F&O  
 & see if we can work out  
 a solution over book



4/6

I did & they will  
stuff a copy there as the  
file.

Don



DEPARTMENT OF THE NAVY  
RESIDENT OFFICER IN CHARGE  
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO:  
43-20:JTS:arc  
11000  
29 August 1978

From: Resident Officer in Charge of Construction, Jacksonville,  
North Carolina Area

To: Commanding General, Marine Corps Base, Camp Lejeune,  
North Carolina (Attn: Base Maintenance Officer)

Subj: MILCON Project P-216; borrow and disposal sites for

Ref: (a) BMO memo MAIN/CDS/pkd over 4100 of 8 Aug 1978

Encl: (1) Excerpt from "90%" draft spec. 05-77-7516

1. MILCON Project P-216 (as well as many future projects) involves the demolition of existing buildings and replacing them with new ones. Subsequent to both the Base's "30%" review and the ROICC's "90%" review of the specification for the project, we informally asked you to designate suitable sites for borrow and disposal.

2. In reply, reference (a) suggested the approach that the wood be removed from the old structures and hauled to the sanitary landfill and the remaining debris spread along the river bank. I find several problems with this solution:

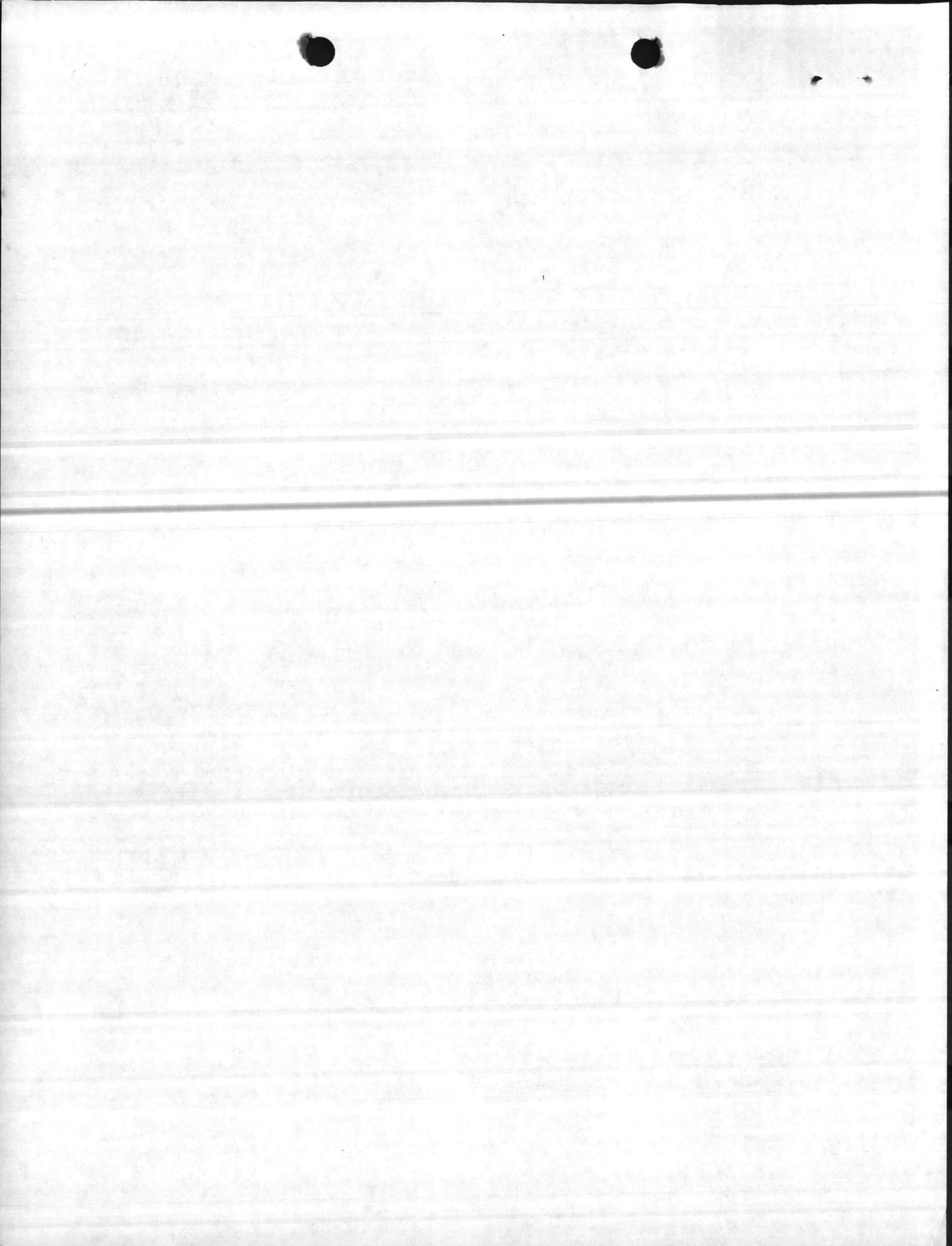
a. There is considerable trash (other than wood and rubble) generated when a building is demolished (wiring, ductwork, piping, glass, plaster, etc.).

b. The proposal would require the contractor to hand strip the building prior to demolition and would result in inordinately high cost, either for a change order if not specified as part of the contract as bid, or in the bid if it is specified.

c. Enclosure (1) envisions stockpiling rubble. Reference (a) requested it be spread on the river bank. Again, this difference in cost is a reality which must be dealt with.

d. There appears to be a potential problem with a Corps of Engineers' permit which may be required before any rubble is spread along the river bank. If such a permit is required, it would be the responsibility of the Base to obtain it.

3. Enclosure (1) seems, under the circumstances, adequate as presently drafted. The Base could conceivably decide, for example, to move the stockpiled rubble to an erosion controlling condition separate from this contract (i.e. separate contract, Engineer troops or BMO forces could simply push the stockpile over the bank). In any case, since the project is currently



43-20:JTS:arc  
11000  
29 August 1978

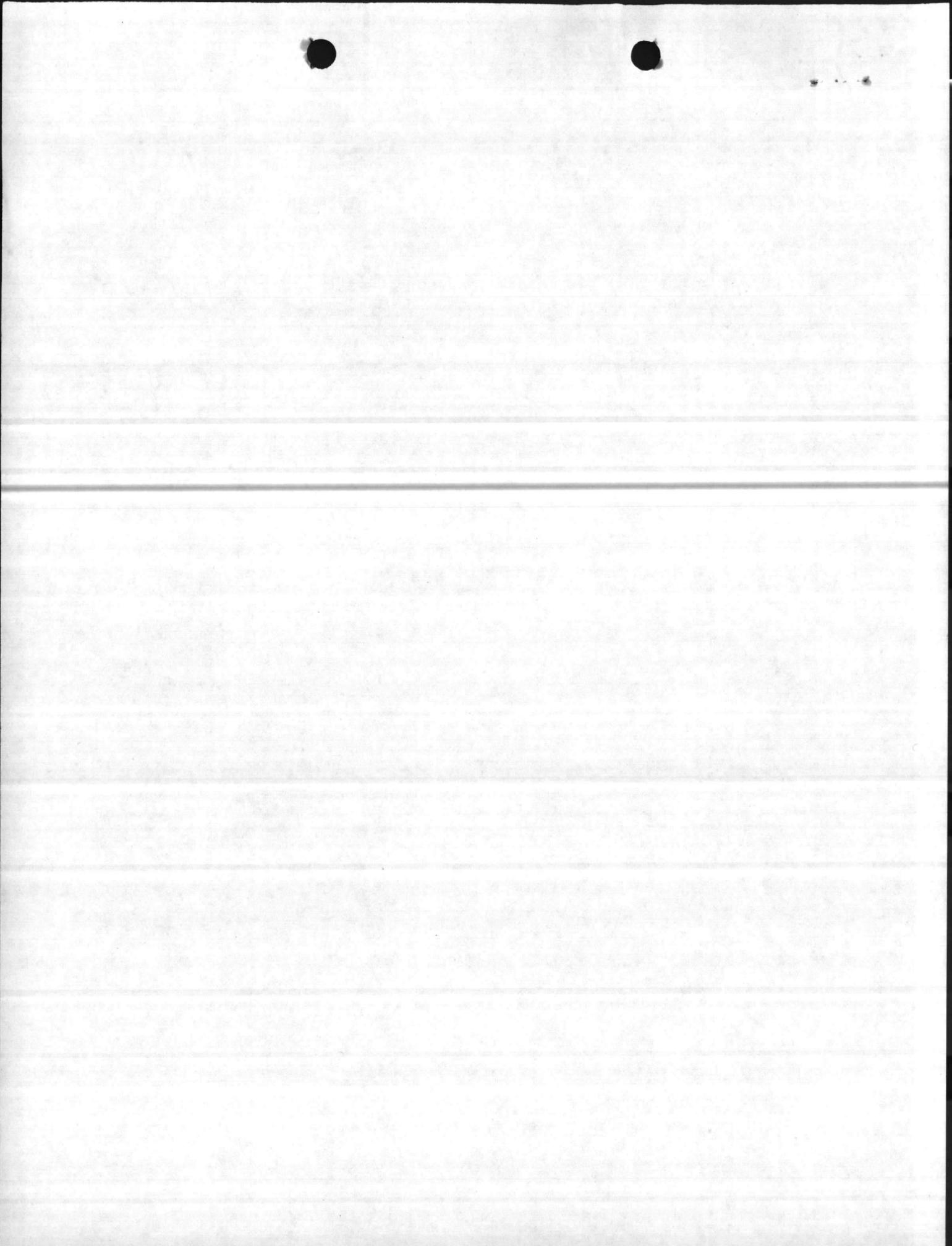
undergoing final review at LANTDIV prior to their planned advertising in September, any changes the Base desires LANTDIV to make must be requested immediately.

4. Although reference (a) did not respond specifically on the point, we are assuming that the new borrow pit on Piney Green Road will be used for this project.



C. A. TACK

Copy to:  
CG (Attn: AC/S Fac)  
LANTDIV (Code 05)  
LANTDIV (Code 04)



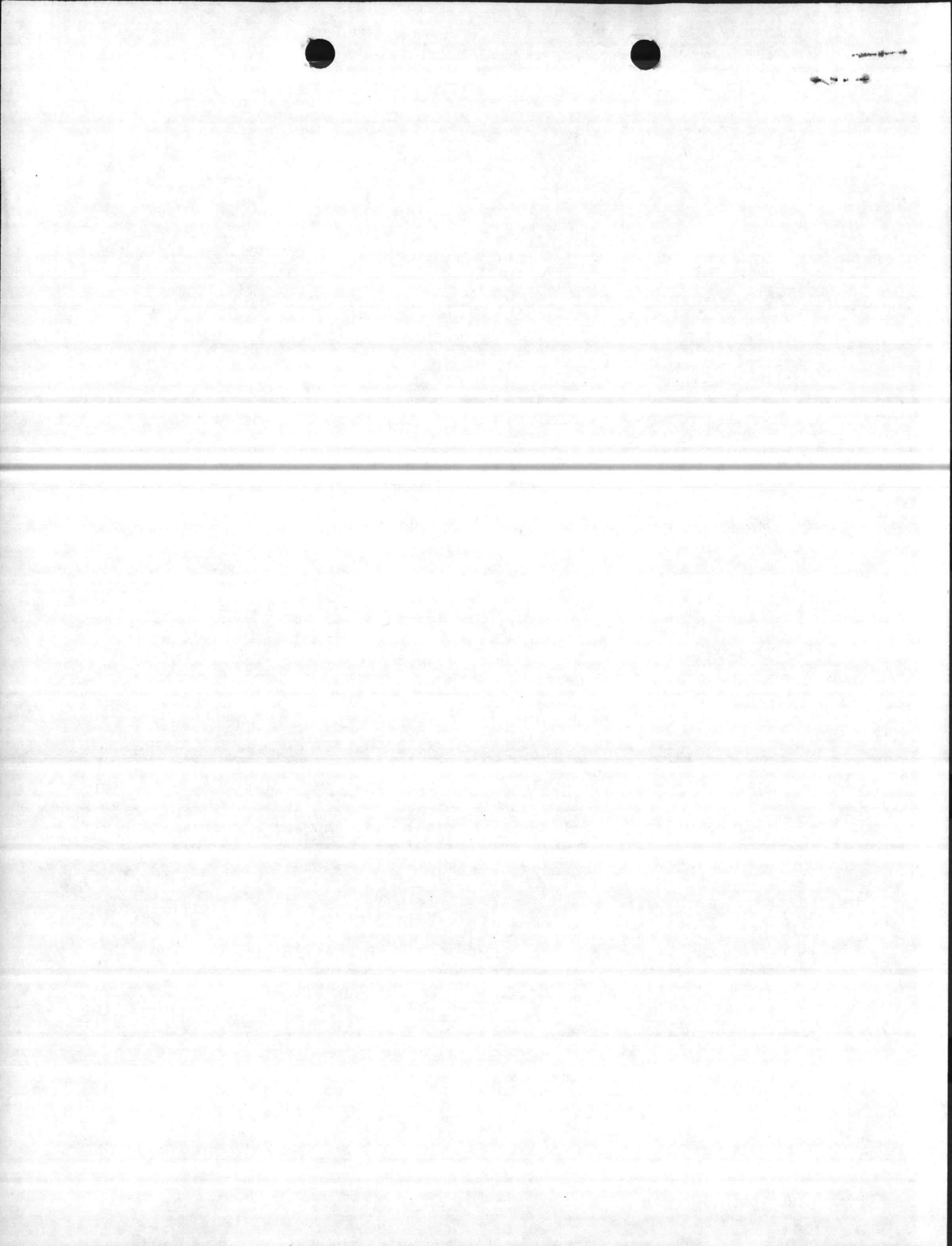
90% Draft

3. REQUIREMENTS: The work includes the demolition or removal of all construction indicated, specified, or necessary to accomplish the work under this contract. The work indicated or specified in this section or other sections of the specifications is included, but is not intended that all items of demolition work be specifically indicated, specified, or listed. After carefully reviewing the drawings and specifications to determine intent, the Contractor shall visit the site and determine the extent of demolition work required to properly complete the work under this contract.

3.1 Demolition and removal shall be conducted in a manner that will eliminate hazards to persons and property in the area and shall prevent the release of dust and rubbish into the air. All debris resulting from demolition or removal work shall be removed from the station daily or as directed by the Contracting Officer, except as specified otherwise. Trash and rubbish shall not be allowed to accumulate either within or outside the buildings. Demolished materials and debris which, in the opinion of the Contracting Officer, cannot practicably be removed from the site the same day as removed, may be temporarily stacked or stored in a designated location on the site as directed by the Contracting Officer. All materials resulting from demolition work, except as indicated or specified otherwise, shall become the property of the Contractor and shall be removed from the limits of the station or, at the Contractor's option, may be disposed of at the station's sanitary landfill; all demolished masonry, concrete and asphalt pavement shall remain the property of the Government and shall be stock-piled at a location as directed within 10 miles of the site.

~~05-76-6223~~ 05-77-7516  
02110 - 1

ENCL (1)



# KEEP AMERICA BEAUTIFUL, INC.

99 PARK AVENUE / NEW YORK, N.Y. 10016 / TELEPHONE (212) 682-4564

A NATIONAL, NONPROFIT, PUBLIC SERVICE ORGANIZATION



## Clean Community System

Camp Lejeune, N. C.

(Site Name)

PROJECT TEAM LEADER REPORT FORM

Date of report: 13 Sept 1978

Project Team Leader Horace O. Foil, Jr., Clean Community Systems Coordinator  
(Name) (Title)

Base Maintenance Officer, MCB, Camp Lejeune, NC 28542 Attn: CCSC  
(Address) (Telephone) (919) 451-5003/2083

Immediate Superior Mr. J. I. Wooten Supvy Ecologist  
(Name) (Title)

Date of Project Team Training Workshop for this community: 27-29 March 1978

1. Have you modified your Action Plan since filing your last Report Form? ( ) yes  
(XX) no If so, indicate how on the attached sheet.
2. Litter/solid waste analysis -- status of research.  
Indicate: who is involved and how, progress to date, expected completion date.

Completed

3. Base line measurements:

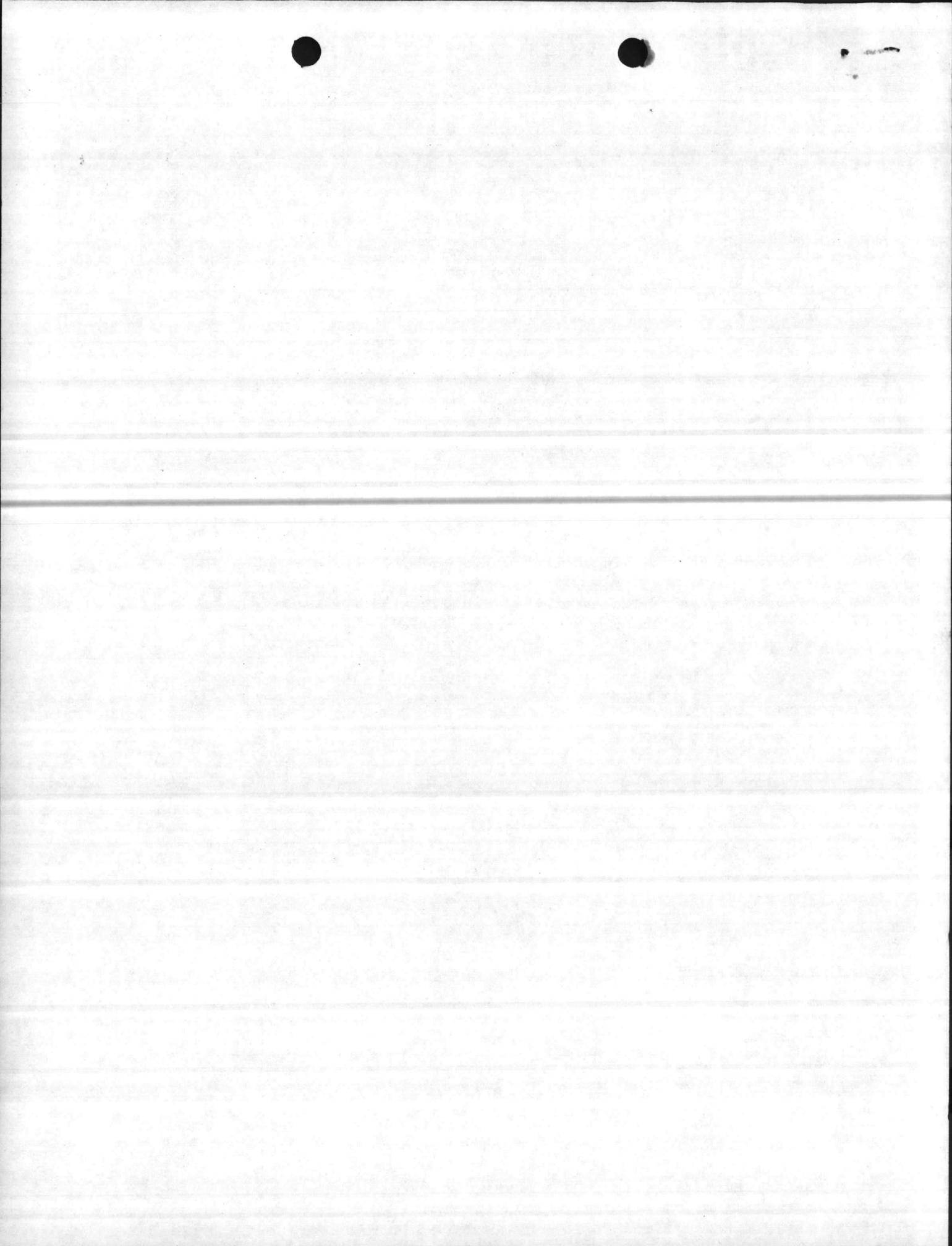
Photometric Index

Who is involved and how? Completed

- Has sampling area been selected? (X) yes ( ) no  
Is mapping of the sampling area completed? (X) yes ( ) no  
Have photos been taken? (X) yes ( ) no  
Have photos been developed? (X) yes ( ) no

Expected completion date: 28 June 1978 . If completed, base line score: 3.58

Expected date of first follow-up measurement: 20 Sept 1978



Community Attitude SurveyWho is involved and how? Non-Commissioned Officers Wives Club of Camp Lejeune, NC

Phone contacts \_\_\_\_\_

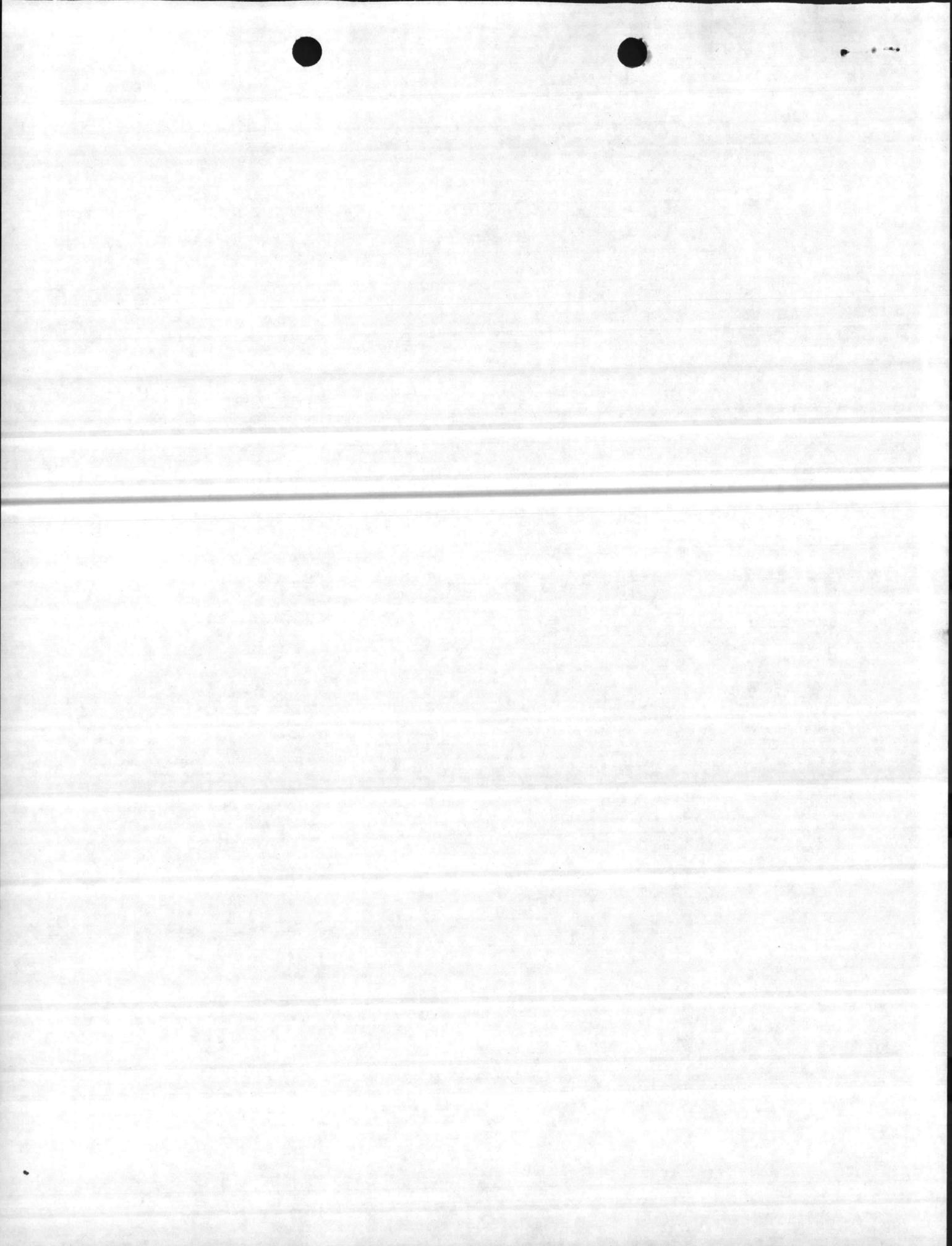
Expected completion date: 15 Sept 1978 If completed, base line score: 52.94Expected date of ~~first~~ follow-up measurement: 13 Nov 19784. Civic group contacts: N/A5. Municipal government contacts: N/A6. Business and industry contacts: N/A

7. Progress in organizing citizens' committee:

How many training sessions have been held? 15 For whom? \_\_\_\_\_

Progress in office establishment:

Donated goods and services: CompleteFunding: CompleteStatus of executive coordinator search: Hired 8 Feb 1978Expected date for official City Council recognition: N/AExpected date for Clean City Committee chairman announcement: N/AExpected date for Clean City Committee members announcement: N/AContacts made to secure CCC members: N/A



Progress in planning for official launching of CCC: Completed

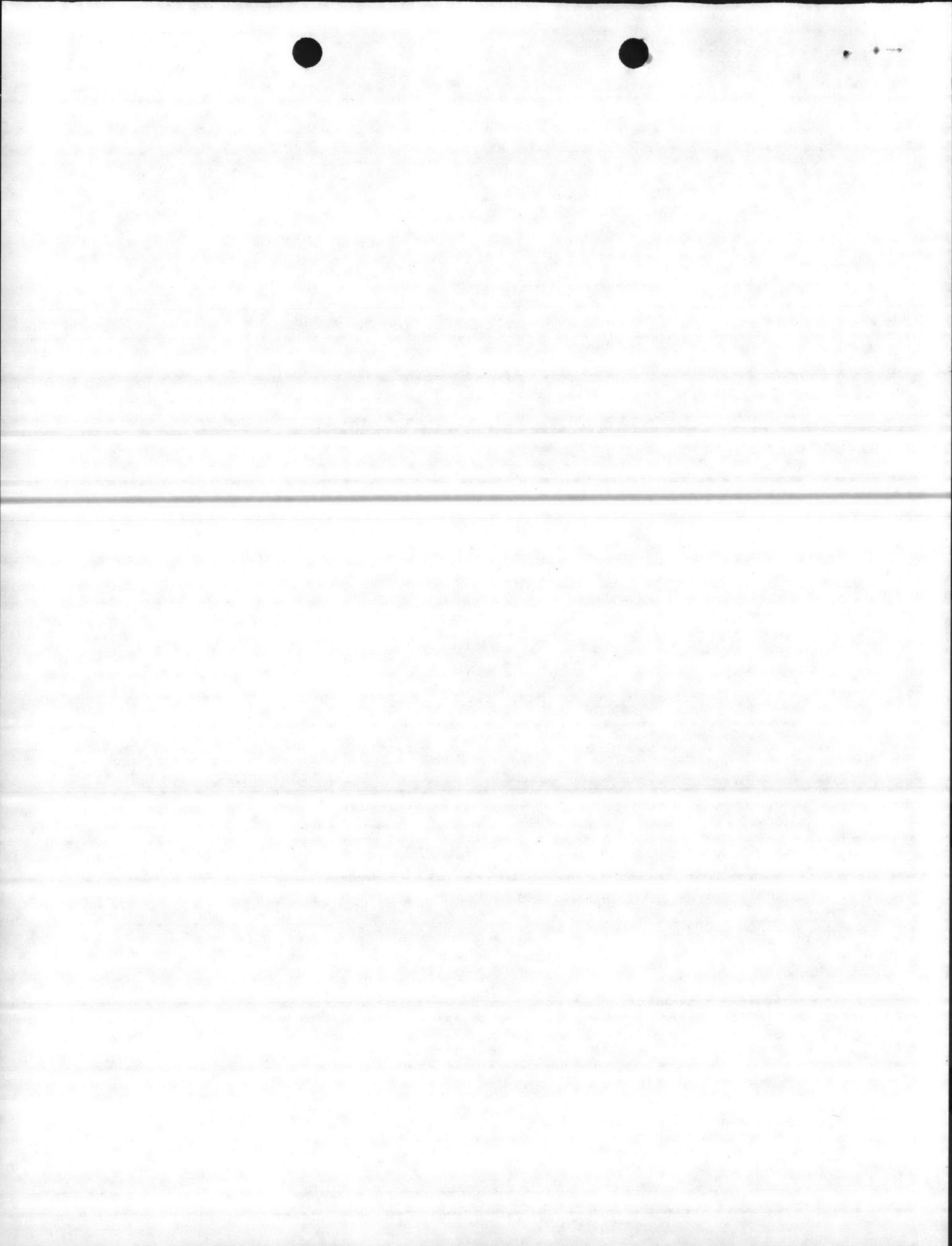
8. Other activities: The Clean Community Systems Coordinator is no longer under Assistant Chief of Staff, Facilities but relocated in the Environmental Affairs Section of the Natural Resources and Environmental Affairs Division of Base Maintenance Department.

The new address is Base Maintenance Department, Marine Corps Base, Camp Lejeune, North Carolina 28542 (Attn: Clean Community Systems Coordinator) Telephone numbers: (919) 451-5003/2083

9. Please complete action tracking form (attached).

Return to: Keep America Beautiful, Inc.  
99 Park Avenue  
New York, New York 10016

B. W. Elston  
(Signature)  
B. W. ELSTON  
Acting Base Maintenance Officer



Please fill in month,  
beginning with month certified

March

April

May

June

July

August Sept

I. Development

N/A

- A. CCC Sub-committee chairman selected
- B. Sub-committee selection
- C. Sub-committee training
- D. Sub-committees define objectives
- E. Sub-committees act

II. Analysis

- A. Litter/solid waste researchers selected
  - 1. Litter/solid waste analysis complete
  - 2. Report to KAB
  - 3. Act on findings
    - a. Municipal sub-committee ordinance review & change
    - b. Departmental procedural changes
    - c. Departmental equipment update

N/A

N/A

N/A

- B. Base line measurement researchers selected
  - 1. Base line measurement completed
  - 2. Report to KAB

- C. Community Attitude Survey researchers secured
  - 1. Community Attitude survey complete
  - 2. Report to KAB

- D. Update local slides

- E. Solicit in-kind donations

N/A

12

30

9

14

28

7

28

15

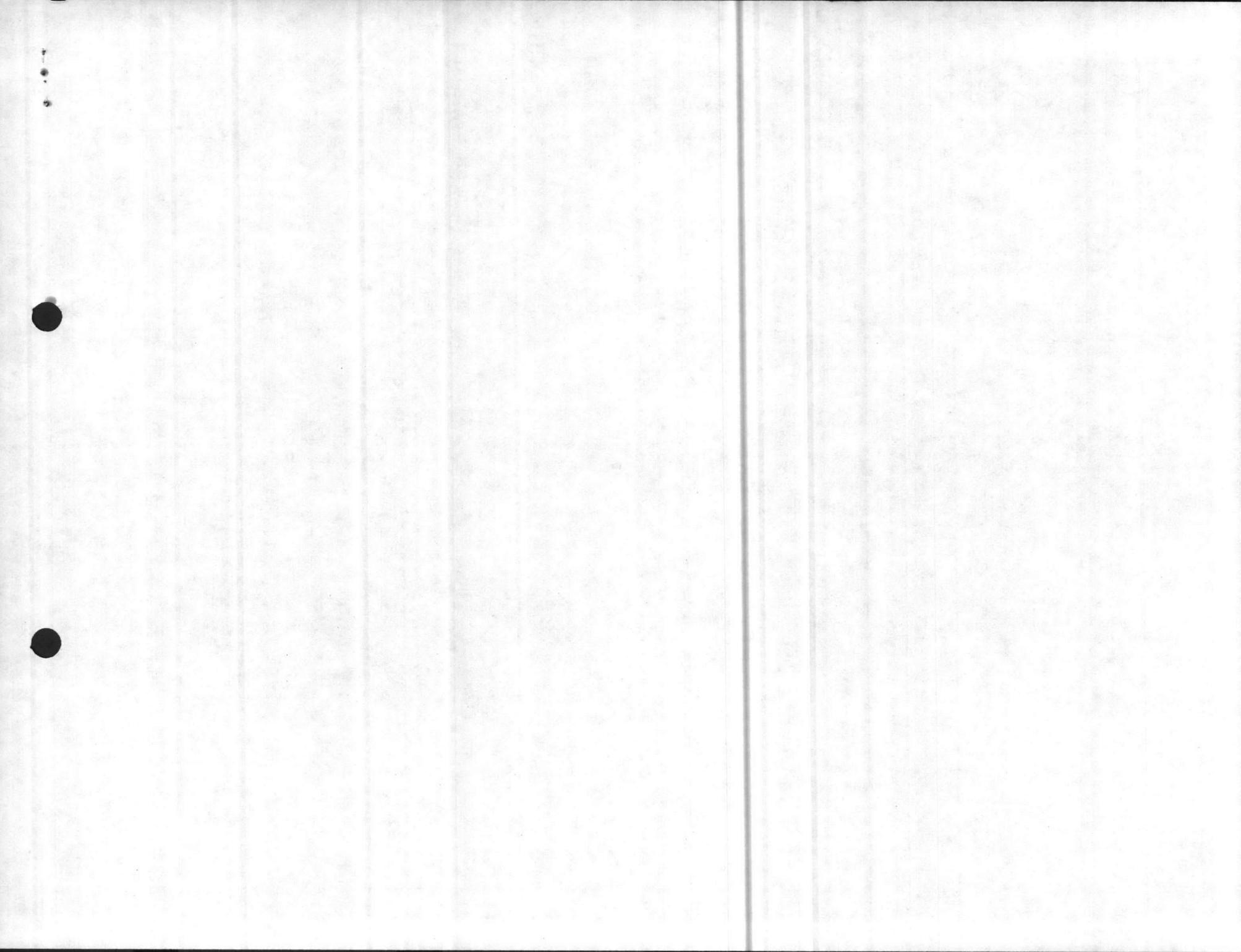
31

9

20

20

10



| 2-   | March | April | May | June | July | August | Sept |    |  |  |  |  |
|--|-------|-------|-----|------|------|--------|------|----|--|--|--|--|
| <p>Implementation</p> <p>A. Promotional Kick-off</p> <p>B. Mass public training sessions through subcommittees</p> <p>C. Ordinances updated</p> <p>D. Public education on sanitation procedures</p> <p>E. Development of on-going out reach programs</p> <p>F. Recognition</p> |       | 22    |     |      |      |        |      |    |  |  |  |  |
| <p>Measurement</p> <p>A. Second Attitude Survey</p> <p>B. Second photometric survey</p> <p>C. Repeated surveys</p> <p>D. Continue ordinance enforcement review</p> <p>E. Re-examine sanitation procedures twice yearly</p>   |       | 25    |     | 20   | 15   | 20     | 31   | 15 |  |  |  |  |

1  
2



MAIN

AUG 22 22 13z78

VZ CZ CRBA914  
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ZIR UUUUU  
R 222233Z AUG 78  
FM CG SECOND MARDIV  
TO SECOND MARDIV  
INFO RUCLBRA/CG MCB CAMP LEJEUNE NC  
XMT BLT ONE SLANT EIGHT  
BLT TWO SLANT EIGHT  
BLT ONE SLANT TEN  
BLT TWO SLANT TWO  
BT

AUG 23 1978  
DISTRIBUTION

- BMO
- ABMO
- NREAD
- \_\_\_\_\_ Admin D.
- \_\_\_\_\_ Oper D.
- \_\_\_\_\_ M&R D.
- \_\_\_\_\_ Tele D.
- \_\_\_\_\_ Int D.
- \_\_\_\_\_ FSA O.
- \_\_\_\_\_ Prop O.
- \_\_\_\_\_ NAME
- \_\_\_\_\_ Maint NCO
- \_\_\_\_\_ Secretary

UNCLAS //N04 100//  
RESOURCE RECOVERY

- A. BO 4100.8
- B. FONECON MGYSGT WOOD, DIV G-4 SECT AND MR. FOYL, MCB, CLNC  
FAC SECT OF 22 AUG 78

1. REF A SETS FORTH THE RESOURCE RECOVERY PROGRAM RELATIVE TO NEWSPAPER AND CORRUGATED CARDBOARD MATERIAL AT CLNC.
2. PER REF B, A FORTHCOMING CHANGE TO REF A WILL PROVIDE DISPOSITION INSTRUCTIONS FOR PAPER MATERIEL GENERATED BY DPI THAT IS NO LONGER REQUIRED BY THE UNIT/SECTION AND MAY BE RECYCLED INTO THE RESOURCE RECOVERY PROGRAM.
3. IN THE INTERIM UNITS/SECTIONS HAVING DPI MATERIEL IN EXCESS TO THEIR REQUIREMENTS MAY DISPOSE OF SAME BY DIRECT DELIVERY TO BLDG #738 (RECOVERY PLANT, ONSLOW COUNTY WORKSHOP) OR THE

PAGE TWO RUEBDOD 1111 UNCLAS  
DUMPSTER CONTAINER ADJACENT TO BLDG 1108 (INDUSTRIAL AREA).  
4. CMDRS ARE REQUESTED TO MAKE MAXIMUM UTILIZATION OF FACILITIES INDICATED ABOVE TO FURTHER ENHANCE THE RESOURCE RECOVERY PROGRAM.

BT  
#1111 INFO: FAC, BMAT, SUPS, MAIN, FSMAO-1  
TOR: AUG 22 2213z 78

22 22 33 Aug

AUG 1 1975

CONSTRUCTION

ONE

ONE

ONE

ONE

ONE

ONE

ONE

ONE

ION INFO INITIAL

|             |  |   |           |
|-------------|--|---|-----------|
| BMO         |  |   |           |
| ABMO        |  | ✓ | OW        |
| MAINT NCO   |  |   |           |
| SAFETY CHMN |  |   |           |
| PROP        |  |   |           |
| M&R         |  | ✓ | CPO - ACH |
| OPNS        |  | ✓ | RMS       |
| ADMIN       |  |   |           |
| TELE        |  |   |           |
| UTIL        |  |   |           |
| ENVIRON AFF |  | ✓ | WAN       |
| SECRETARY   |  |   |           |
| F&A BRANCH  |  |   |           |
| UMACS       |  |   |           |
| MME         |  |   |           |

Julian  
note →

N  
A. d. W.  
10 Aug 78

Wash

Wash  
Wash

Wash  
Wash

UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

FAC:BKB:mkc  
P-11013/5  
7 Aug 1978

FIRST ENDORSEMENT on BMaintO ltr MAIN/JIW/th 4100 of 1 Aug 1978

From: Assistant Chief of Staff, Facilities  
To: Assistant Chief of Staff, Training (Attn: Training Facilities O)  
Subj: Sanitary facilities to support ITS

1. Readdressed and forwarded.
2. Training Facilities is authorized to construct in-the-ground, temporary head facilities at ranges K-406B, K-407, L-5 and BO 14 by 1 October 1978. Direct liaison with the Natural Resources and Environmental Affairs Division of Base Maintenance to determine exact construction locations is authorized.
3. After determining the type of construction method that will best protect the water table and be the most efficient to maintain, construction of the required head facilities at Ranges K-301, K-302, K-303 and K-305 may proceed.

T. R. BAISLEY

→ Copy to:  
BMaintO

UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
MARINE CORPS AIR STATION  
MARINE CORPS AIR STATION

TO: DIRECTOR  
FROM: [illegible]  
SUBJECT: [illegible]

RE: [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

5. [illegible]

[illegible]

cc: [illegible]

BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/JIW/th  
4100  
1 Aug 1978

From: Base Maintenance Officer  
To: Assistant Chief of Staff, Facilities

Subj: Sanitary Facilities to Support ITS

Ref: (a) TrngFacO memo dtd 3 Jul 78  
(b) NC Law & Rules for Ground Absorption Sewage Disposal  
System dtd 1 Jul 77

Encl: (1) NC Law & Rules for Ground Absorption Sewage Disposal System

1. As requested in reference (a), it has been determined that temporary field head facilities could be constructed at some sites aboard base. Soils data contained in the Natural Resources Management Plan for Camp Lejeune indicate that subject facilities could be constructed at Ranges K-406B, K-407, L-5 and B0-14 depending on exact location. As a result of high water table at Ranges K-301, K-302, K-303 and K-305, a concrete vault will be necessary or an earth mound may be constructed to raise the pit above the ground water table.

2. Further, the entire head facilities should be designed, constructed and installed according to state regulations, reference (b), which are submitted as enclosure (1).

3. For further pertinent details contact Mr. Wendell Neal or Mr. Julian Wooten, Base Maintenance Department, phone 451-5003.

B. W. ELSTON  
Acting

STATE INTERIOR DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

4710411010  
1100  
1 and 1078

To: Base Liaison Officer  
Assistant Chief of Staff, Facilities

Subject: Facility to support the

(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)

1. (1) The following information was received from the

requester in reference (5). It has been determined that the  
this need facilities could be constructed in the area  
containing the natural resource management plan for  
the area. The subject facilities could be constructed at  
the following locations: (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)  
The above information was received from the requester  
and is being furnished to you for your information.

2. Further, the office facilities should be designed, constructed  
and installed according to state regulations, reference (6), which  
are attached as enclosure (1).

3. For further pertinent details contact Mr. Wendell Neal or Mr. [Name]  
at the address listed above, phone [Number].

ENCLOSURE

DEPARTMENT OF THE NAVY

# Memorandum

DATE: 3 July 1978

FROM: Training Facilities Officer

TO: Assistant Chief of Staff, Training

SUBJ: Sanitary Facilities to support ITS

Ref: (a) Base Maint Off ltr MAIN/WAN/th 4100 dtd 26 June 1978

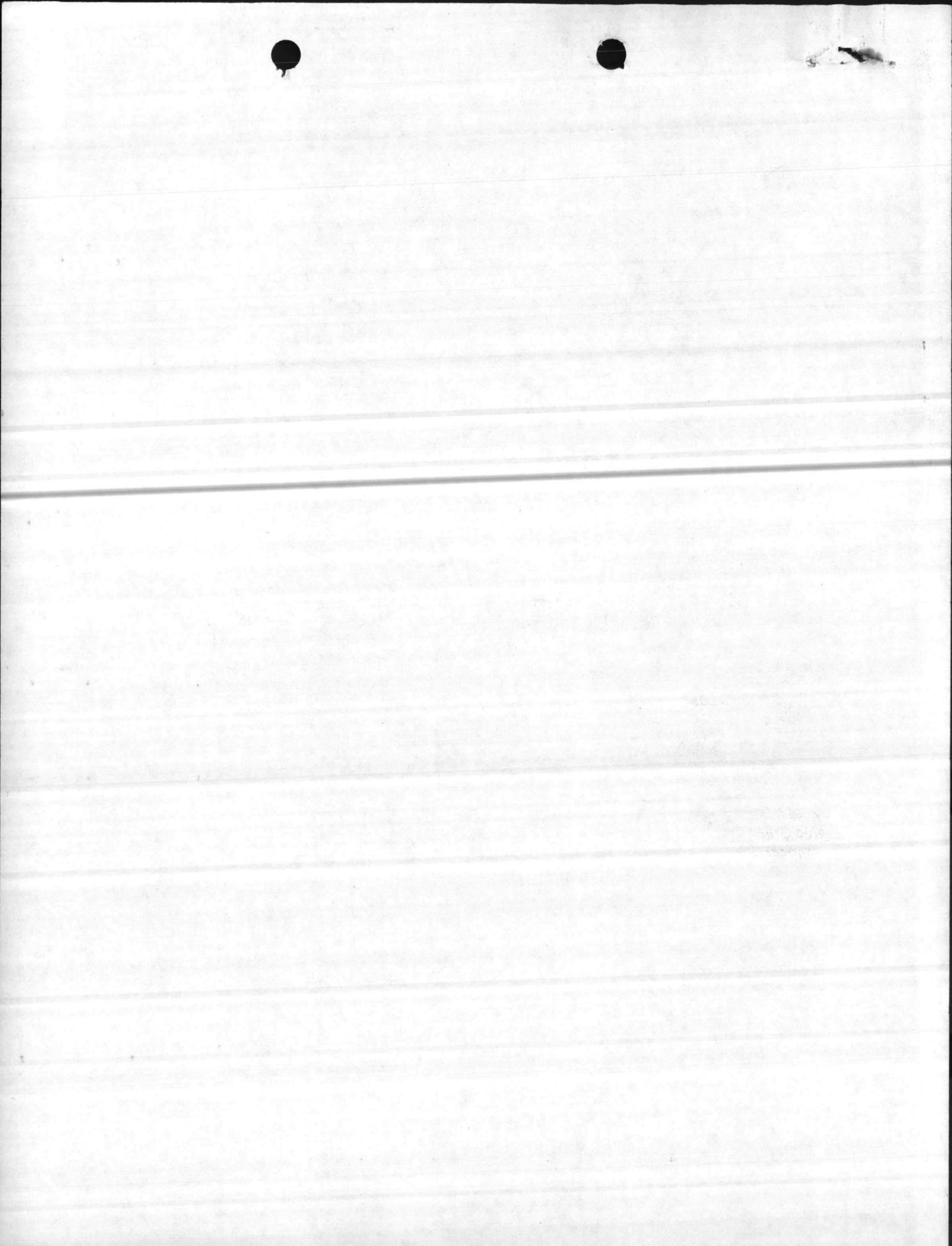
1. In response to reference (a) it is requested that ground water level at the following ranges be determined and a determination be made as to the feasibility of construction of field head facilities at each listed location:

- a. Range K-302
- b. Range K-406B
- c. Range K-407
- d. Range L-5
- e. Range BO-14

2. POC for details as to exact locations is MGYSGT BOLLMAN NCOIC Range Maintenance, telephone 5211/3542.

Very Respectfully,

  
R. D. BOLES



4 Aug

MAIN/WAN/th  
4100

AUG 7 1978

From: Commanding General  
To: Commanding Officer, Marine Corps Air Station (H), New River,  
Jacksonville, North Carolina 28540 (S-4 Officer)

Subj: Solid Waste Disposal at MCHOLF Oak Grove

Ref: (a) CO, MCAS(H), ltr 204:PFA:cbm 5451 of 24 Jul 78

1. In response to reference (a), the following comments/recommendations are made.

a. The sanitary landfill addressed in paragraph 1 of reference (a) is unauthorized as it has not been sited in accordance with appropriate governing regulations under the auspices of the State of North Carolina. In this environmental area, states have administrative and procedural authority over federal agencies. Therefore, the landfill is in fact an illegal operation.

b. The Maintenance Department will schedule appropriate plantings as a means of soil stabilization on closure and filling in of the landfill.

c. Solid waste generated at this facility is presently the responsibility of two separate organizational entities, the recreational sites being a Special Services responsibility, and the other waste being a responsibility of the MOOSE organization.

2. Providing refuse collection service for Oak Grove from Base Maintenance is cost prohibitive. It is understood that plans are underway, by 2dFSSG, to procure a contract for MOOSE generated solid waste. Likewise, contract collection service is viewed as the most feasible for recreational generated refuse. Perhaps the two waste sources could be combined into a single contract.

T. R. BAISLEY  
By direction

11/11/77  
AUG 7 1977

From: Commanding General  
To: Commanding Officer, Fort Cavazos, Fort Cavazos, Texas  
Jacksboro, North Carolina, 28740 (2-4 Office)

Subject: Solid Waste Disposal at MOBILE Oak Grove

Reference: 201M-2510, 11/20/77, 201M-2510, 11/20/77

1. In response to reference (a), the following comments/recommendations are made:

a. The sanitary landfill address in paragraph 1 of reference (a) is incorrect. It is not a landfill in accordance with applicable governing regulations under the auspices of the State of North Carolina. In this environmental area, states have administrative and regulatory authority over federal agencies. Therefore, the landfill is in fact a illegal operation.

b. The Air Force Command with schedule appropriate planning as a means of soil stabilization on routine and filling in of the landfill.

c. Solid waste generated at this facility is presently the responsibility of two separate organizational entities, the operational site being a special services responsibility, and the other waste being a responsibility of the WWSB organization.

d. The WWSB contract collection service for Oak Grove from base funds is not profitable. It is suggested that plans are underway by WWSB to procure a contract for WWSB generated solid waste. Like wise, contract collection service is being set up for WWSB for non-operational equipment removal. However, the two contracts could be combined into a single contract.

T. R. BAILEY  
By direction

MAIN/RES/dy  
11000  
7 Feb 1978

Base Maintenance Officer

Assistant Chief of Staff, Facilities

Refuse disposal procedures, Oak Grove

Ref: (a) CG, FT/2dFSSG, CLNC ltr CSS 4/RDB/jlb 11000 dtd 23 Nov 77

1. The following comments are provided concerning the request indicated in reference (a):

a. The volume of refuse generated at Oak Grove is estimated to be enough to fill three dumpsters twice a week.

b. The estimated cost of removal on a biweekly basis is approximately \$5,500.

R. E. SCALES  
By direction

*Return  
Mant*

0000  
1000000

Office of the

Assistant Chief of Police

Release of Personal Information

Re: (a) [Name], [Address], [City], [State], [Zip]

The following information was provided concerning the subject:

and was not to be used for any other purpose.

The estimated cost of this report is approximately \$100.

F. A. SCARLETT  
by direction

ADMINISTRATIVE DIVISION  
Base Maintenance Department  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

Date: 2-2-78

From: Director, Administrative Division

To: Ojms

Subj: Trash estimate

Need estimate on  
trash collection at Oak  
Grove. Figure 3 dumpsters  
emptied twice a week

→ Ron

I spoke to MR BROWN about this  
previously. 3 dumpsters twice a  
week would be approx. \$5,500  
per year.

J. C. Talley



BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

2/2/78

From: Assistant Maintenance Officer

To: Admin

Subj: "MOOSE Trash"

Need memo to ACOS, FAX.  
providing estimate of how  
much for us to collect  
trash - based on volume  
& trips cited in NKEA  
note.

that  
cost



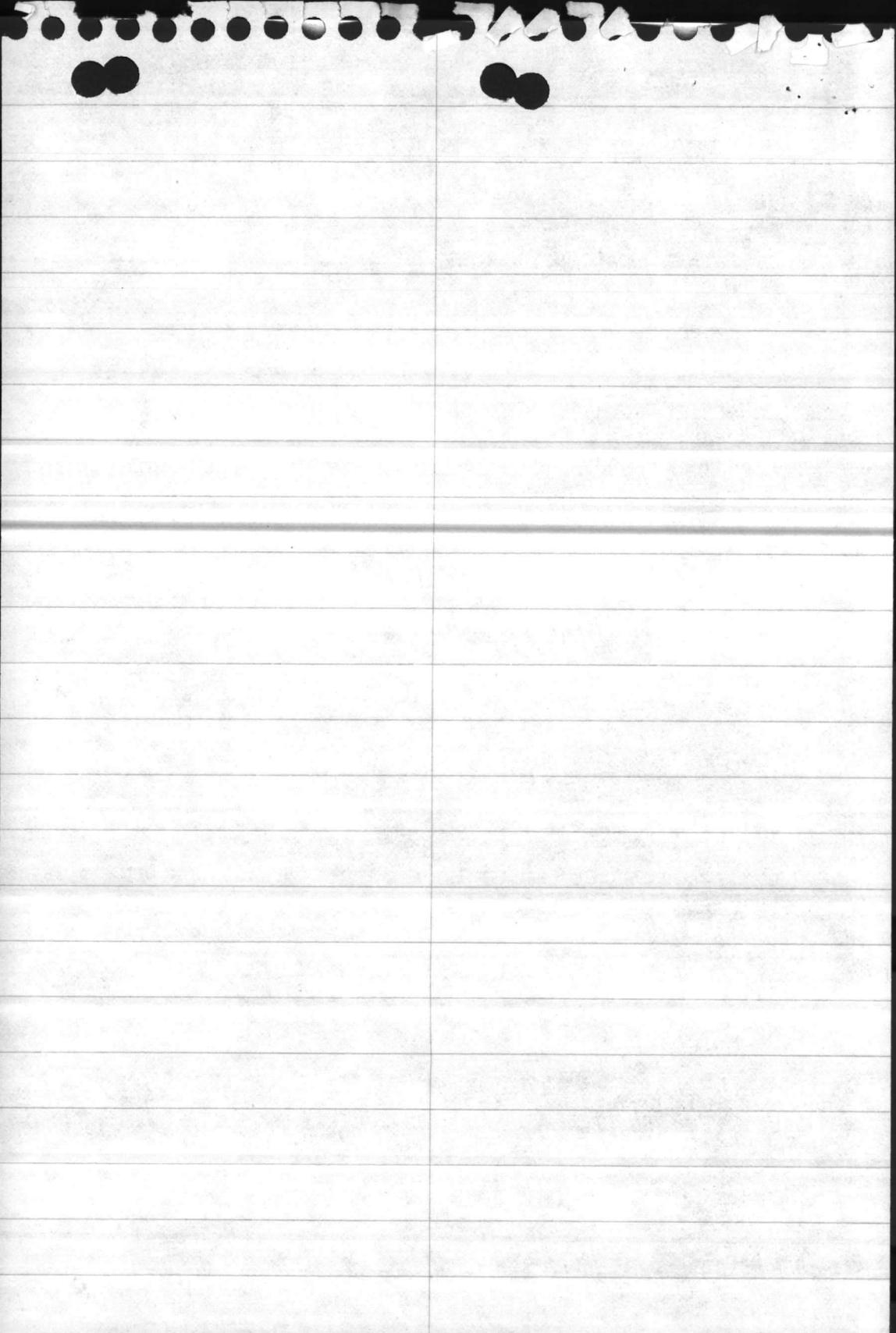
D/mo

1 FEB 78

As per your request to Julian, the volumes of Refuse generated at oak zone are estimated to be enough to fill 3 dumpsters twice per week: This requires twice weekly pickup.

ON Surface would appear that decision in this matter would best rest on comparison of effort & cost of BASE Maint. Oper. with a Private Contractor.

Also, for info it's noted that they are hauling to Trenton & not New Bern as stated by the MOOSE Coordinator.



ASSISTANT CHIEF OF STAFF, FACILITIES  
HEADQUARTERS, MARINE CORPS BASE

DATE 20 Dec 77

TO:

BASE MAINT O  
PUBLIC WORKS O  
COMM-ELECT O  
MOTOR TRANSPORT O  
ATTN: \_\_\_\_\_

DIR, QUARTERS & HOUSING  
DIR, BOQ/BSQ  
BASE FIRE CHIEF

1. Attached is forwarded for info/action.

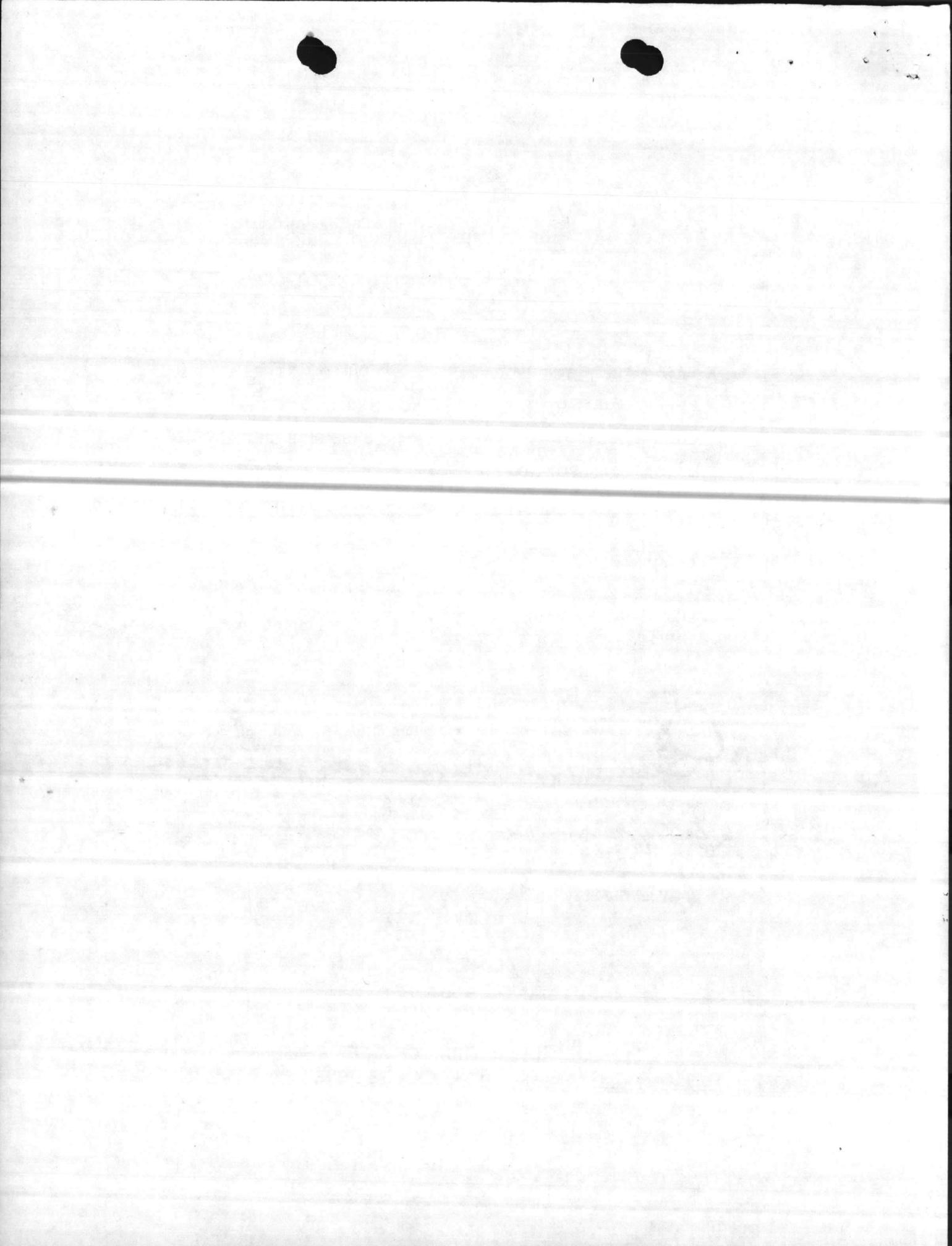
2. Please ~~initial~~ comment, and return all papers to this office.

*Seems their original oral justification  
for MOSE said they would be  
fully responsible for proper trash disposal*

3. Your file copy

*H. Lovel*

"LET'S THINK OF A FEW REASONS  
WHY IT CAN BE DONE"





UNITED STATES MARINE CORPS  
FORCE TROOPS/2d FORCE SERVICE SUPPORT GROUP  
FLEET MARINE FORCE, ATLANTIC  
CAMP LEJEUNE, NORTH CAROLINA 28542

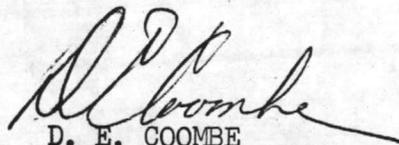
IN REPLY REFER TO  
CSS 4/RDB/jlb  
11000  
23 Nov 1977

From: Commanding General  
To: Commanding General, Marine Corps Base (A C of S, Fac)

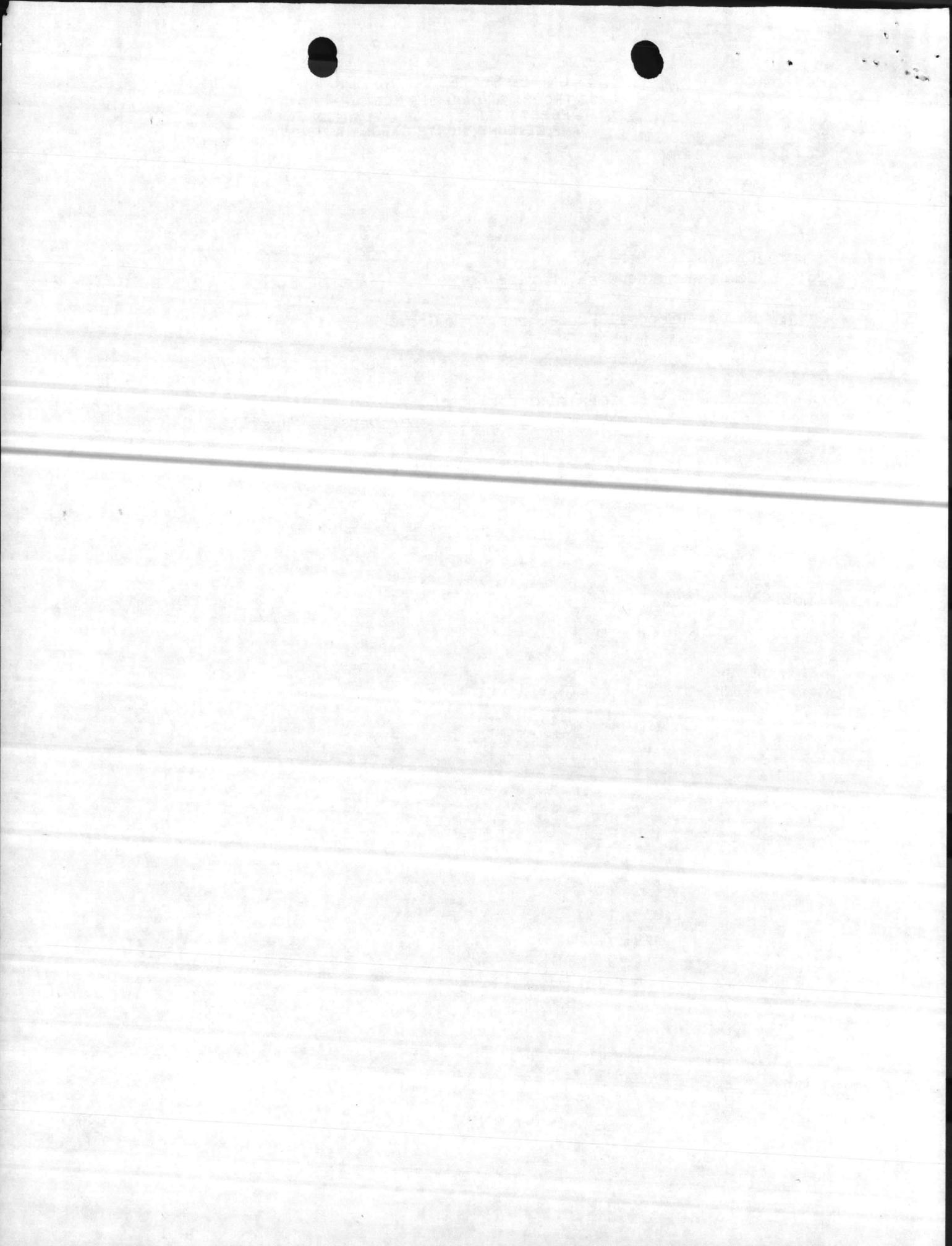
Subj: Refuse Disposal Procedures, Oak Grove

Encl: (1) MOOSE Coord. Memo CSS 7/RWW/wmg 11350 of 18 Nov 77

1. Enclosure (1) is forwarded for consideration. Alternative methods proposed include a contract with land fill operators in Maysville, New Bern, etc.

  
D. E. COOMBE  
By direction

Copy to:  
MOOSE Coord, CSS





UNITED STATES MARINE CORPS  
FORCE TROOPS/2d FORCE SERVICE SUPPORT GROUP  
FLEET MARINE FORCE, ATLANTIC  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

CSS 7/RWW/wmg  
11350  
18 November 1977

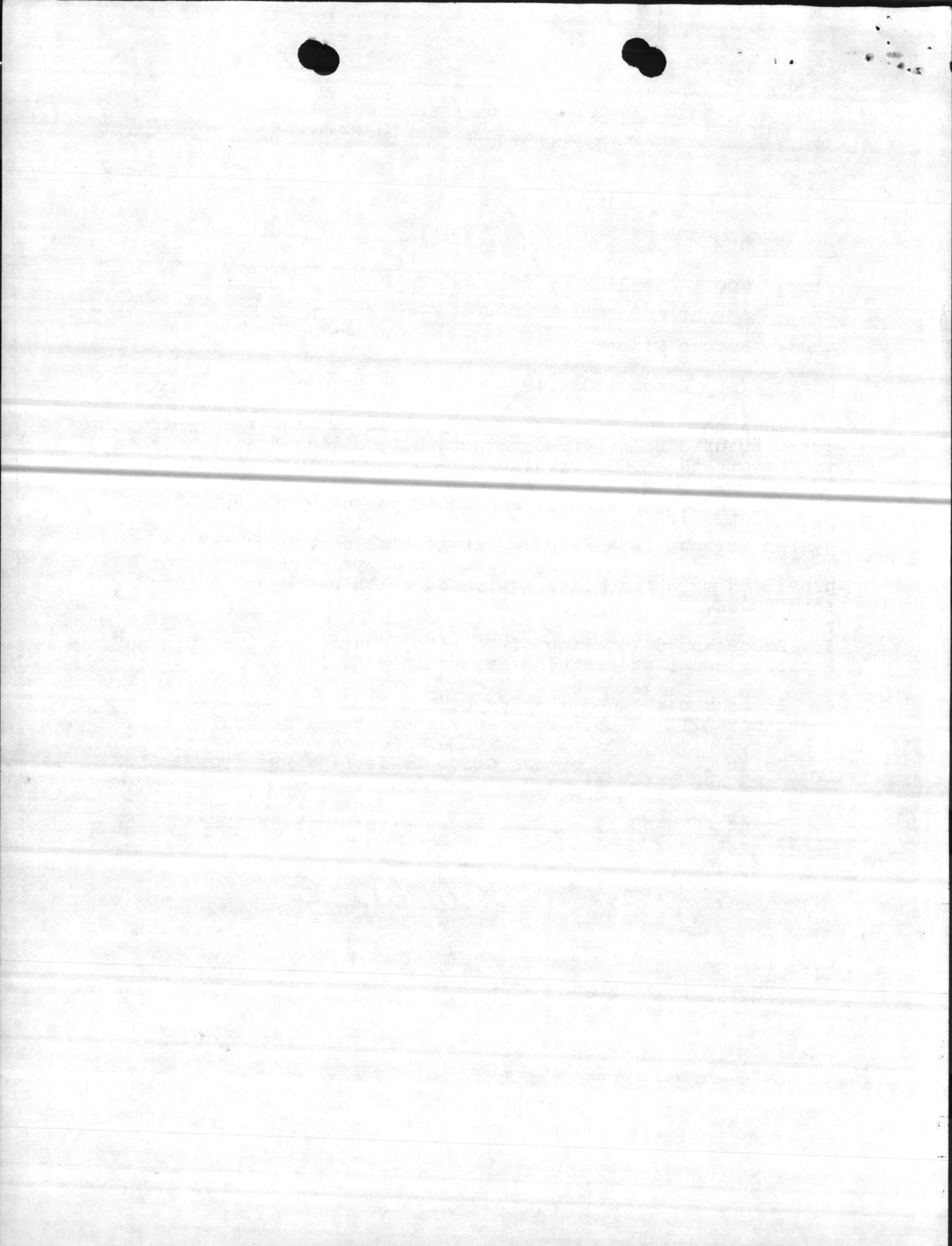
MEMORANDUM

From: MOOSE Coordinator  
To: Facilities Officer  
Subj: Refuse Disposal Procedures  
Ref: (a) BaseO 11350.1F

1. In accordance with reference (a) it is requested that a quantity of 3 Dumpster Containers be positioned at Oak Grove to support the MOOSE Program.
2. The present system is for MOOSE personnel to transport waste material to the New Bern Dump utilizing an M880. This system is unsatisfactory for it is time consuming taking both men and equipment away from their primary mission of providing maintenance to equipment which has been inducted into MOOSE.
3. Recommended location of Dumpster Containers, 2 at Dining Facility and 1 at Berthing/Maintenance Facility.
4. It is recommended that procedure used for emptying container will be upon request rather than a scheduled run.
5. Point of contact at Oak Grove is 1stLt HARRINGTON/1stLt DAVISON, ext 224-8781.
6. Point of contact at Camp Lejeune is Maj R. WEEKS/MGySgt CLAPP, ext 5992.

*R. W. Weeks*  
R. W. WEEKS

Copy to:  
OIC Sub Unit 2  
MOOSE Maint Off



BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/JIW/th  
6240  
7 Aug 1978

From: Base Maintenance Officer  
To: Assistant Chief of Staff, Facilities (Attn: Chairman, EE/EIRB)  
Subj: Replacement Hospital, Naval Regional Medical Center; Candidate  
Environmental Impact Statement for  
Encl: (1) Candidate Environmental Impact Statement for Proposed 280-  
Bed Replacement Hospital, Naval Regional Medical Center,  
Camp Lejeune

1. Enclosure (1) has been reviewed and it has been concluded that a soils deficiency as related to erosion and sedimentation control exists.
2. It is recommended that the subject statement be processed at the next Environmental Impact Review Board meeting.

B. W. ELSTON  
Acting

FASE MAINTENANCE DEPARTMENT

Yonkers, New York

City of Yonkers, New York

YONKERS

NY

1957

From: Mr. William J. ...  
Assistant Chief of Staff, ...

Subject: ...  
... of ...

Re: ...  
... of ...

...

...

...

W. J. ...  
Acting

MEMORANDUM  
OF CALL.

TO:

Maj. McLaughlin

YOU WERE CALLED BY—

YOU WERE VISITED BY—

Maj. Angle

OF (Organization)

PLEASE CALL → PHONE NO. 455  FTS  
CODE/EXT.

WILL CALL AGAIN

IS WAITING TO SEE YOU

RETURNED YOUR CALL

WISHES AN APPOINTMENT

MESSAGE

6506

6518

Result of Gen Smith visit  
Sanitary Land fill at Oak  
Cove (See reverse)

RECEIVED BY

DATE

TIME

63-109

STANDARD FORM 63 (Rev. 8-76)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.6

☆ U.S. G.P.O. 1978-251-015

① Insufficient Dempster Dempsters  
to handle recreational  
trash

② Field training units  
using ditch vice  
pick (2nd Mar Div, Recon)

needed to  
clean & fill  
Truck  
front end scoop to  
fill

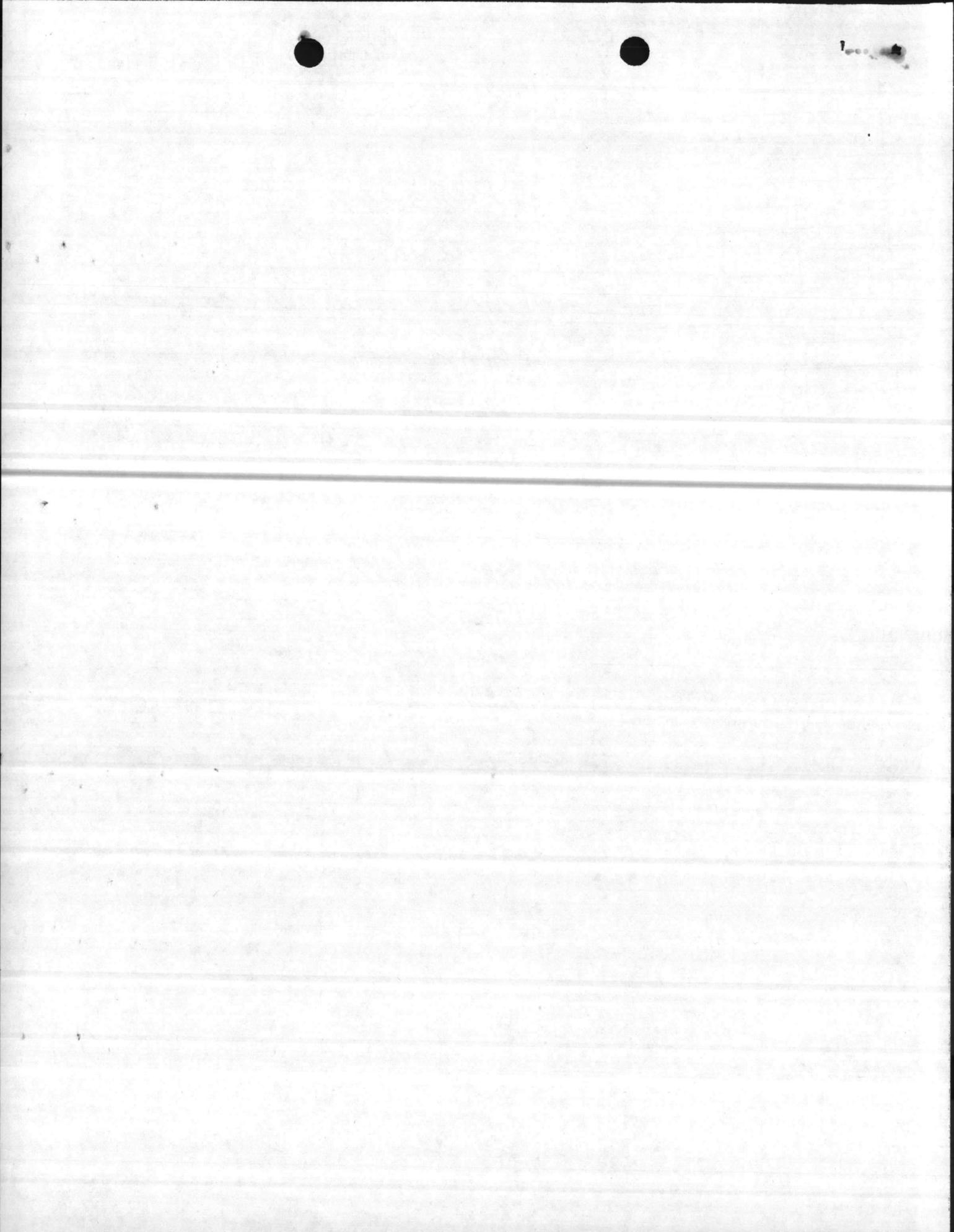
---

MOOSE - water hatch  
chlorination - unsat  
② line tubers well insulated

---

care tubers - home site  
assumption will expand  
MOOSE, recreational Assn ops  
permanent gtr -







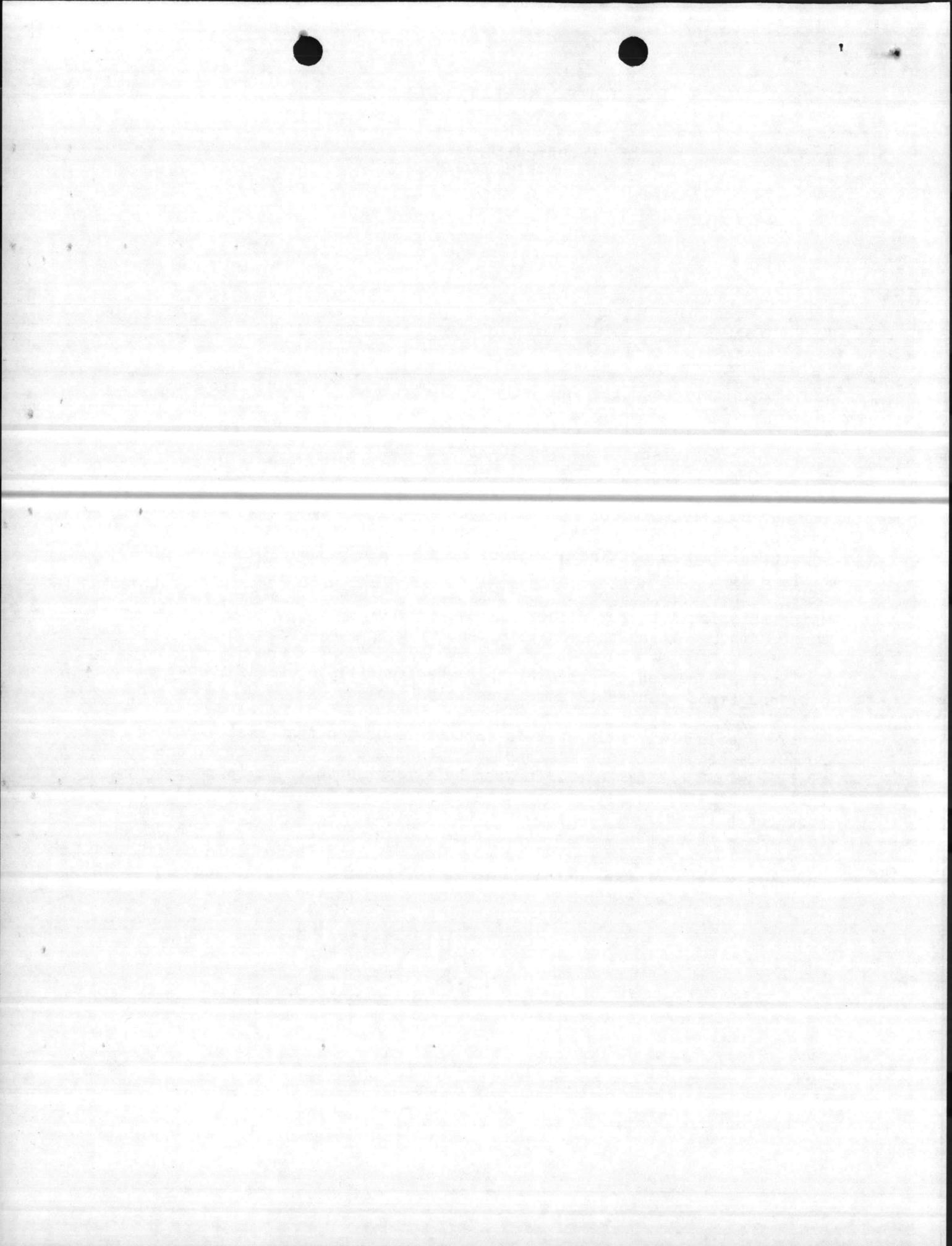
UNITED STATES MARINE CORPS  
MARINE CORPS AIR STATION  
(HELICOPTER)  
NEW RIVER, JACKSONVILLE  
NORTH CAROLINA 28545

204:PFA:cbm  
5451  
24 Jul 1978

From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune, N. C. 28542  
(AC/S Facilities)  
Subj: Sanitary Landfill and Associated Problems at MCHOLF Oak Grove  
Ref: (a) North Carolina State Solid Waste Management Regulations, N. C.  
Administrative Code 10-212  
(b) ASO 5500.5D

1. During a recent tour of MCHOLF Oak Grove, the Caretaker directed attention to a sanitary landfill which has been in existence for quite some time. It is not known whether or not this is an authorized landfill in accordance with reference (a). Reference (b) states how trash is to be properly disposed. So long as this landfill exists personnel using this facility for either military exercises or recreation will be tempted to use it as the easiest means of disposing trash.
2. It is requested, therefore, that the landfill be cleaned, covered over and trees planted as a reforestation project.
3. To preclude littering, it is further requested that small Dempster Dumpsters be placed, one at Camp Site 1 and two at Camp Site 2, and one trailer sized one at Gate 2 for use by all personnel. It is envisioned that the smaller dumpsters could be emptied into the large one on call from the Caretaker of Oak Grove. The Caretaker would also notify Marine Corps Base Maintenance when the large dumpster needed removal/replacement. It is recognized that during the summer months servicing would be frequent; conversely, the winter months would be infrequent. This is seen as being the most effective method of trash control and police.

*P. F. Angle*  
P. F. ANGLE  
By direction



ADMINISTRATIVE DIVISION  
Base Maintenance Department  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

Date: \_\_\_\_\_

From: Director, Administrative Division

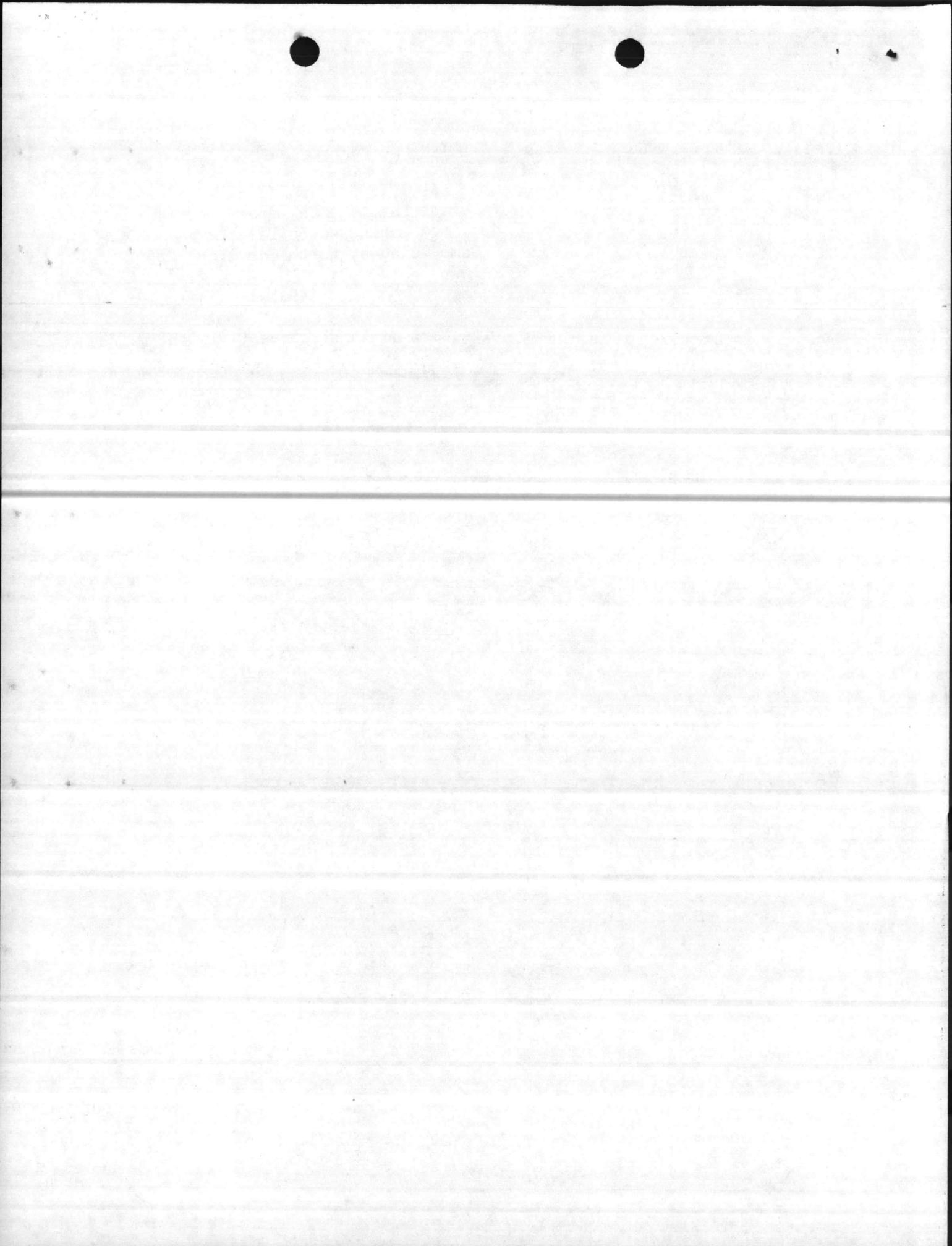
To: ABMO

Subj: \_\_\_\_\_

*Talked with Brown -  
he has no pick-up at Oak  
Cove. I imagine it is  
under contract*

*Attached is ~~that~~ <sup>back-up</sup> info  
on earlier correspondence.*

*RYS*



MAIN/RES/dy  
11000  
7 Feb 1978

Base Maintenance Officer

Assistant Chief of Staff, Facilities

Refuse disposal procedures, Oak Grove

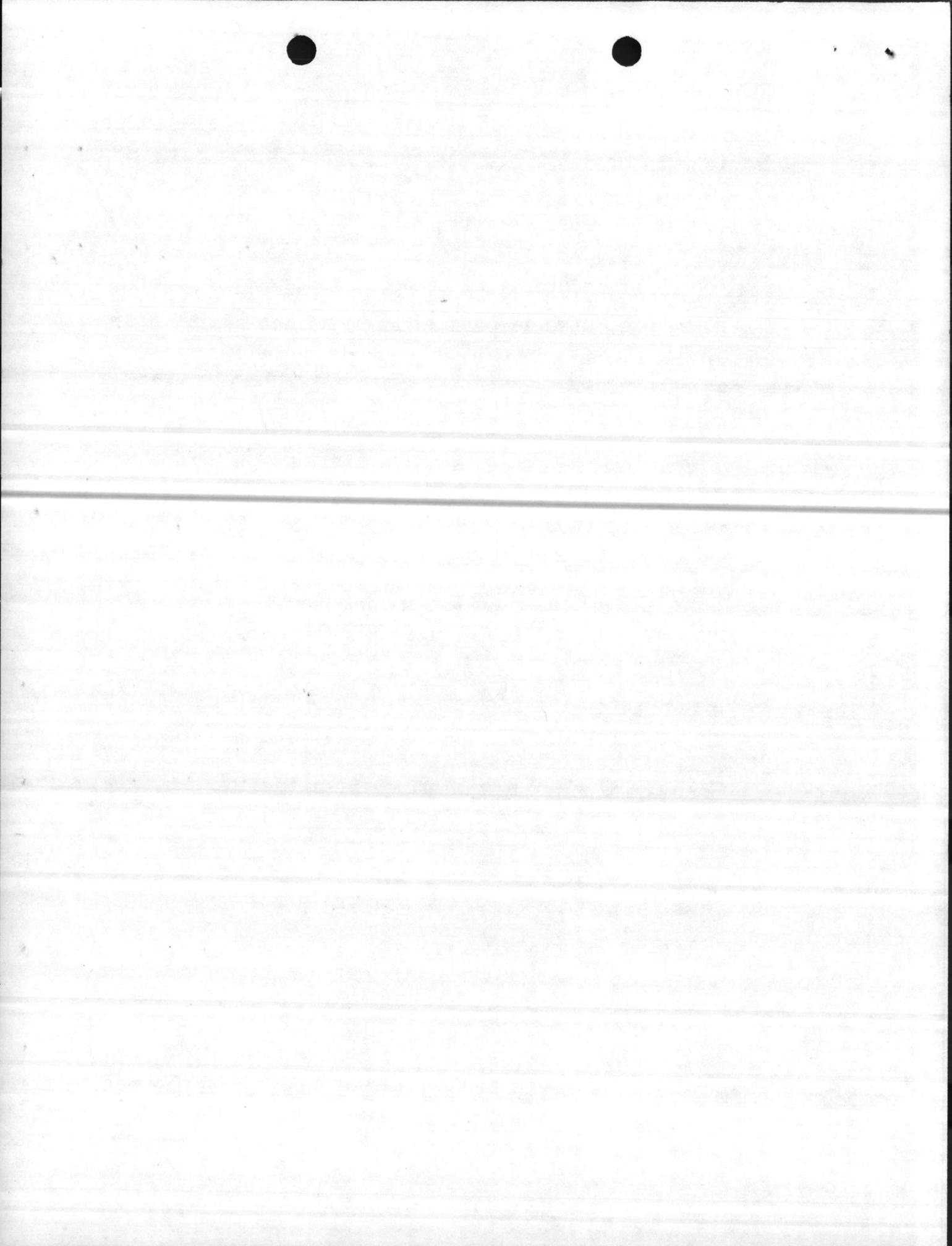
Ref: (a) CG, FT/2dFSSG, CLNC ltr CSS 4/RDB/jlb 11000 dtd 23 Nov 77

1. The following comments are provided concerning the request indicated in reference (a):

a. The volume of refuse generated at Oak Grove is estimated to be enough to fill three dumpsters twice a week.

b. The estimated cost of removal on a biweekly basis is approximately \$5,500.

R. E. SCALES  
By direction



ADMINISTRATIVE DIVISION  
Base Maintenance Department  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

Date: 2-2-78

From: Director, Administrative Division

To: Ojme

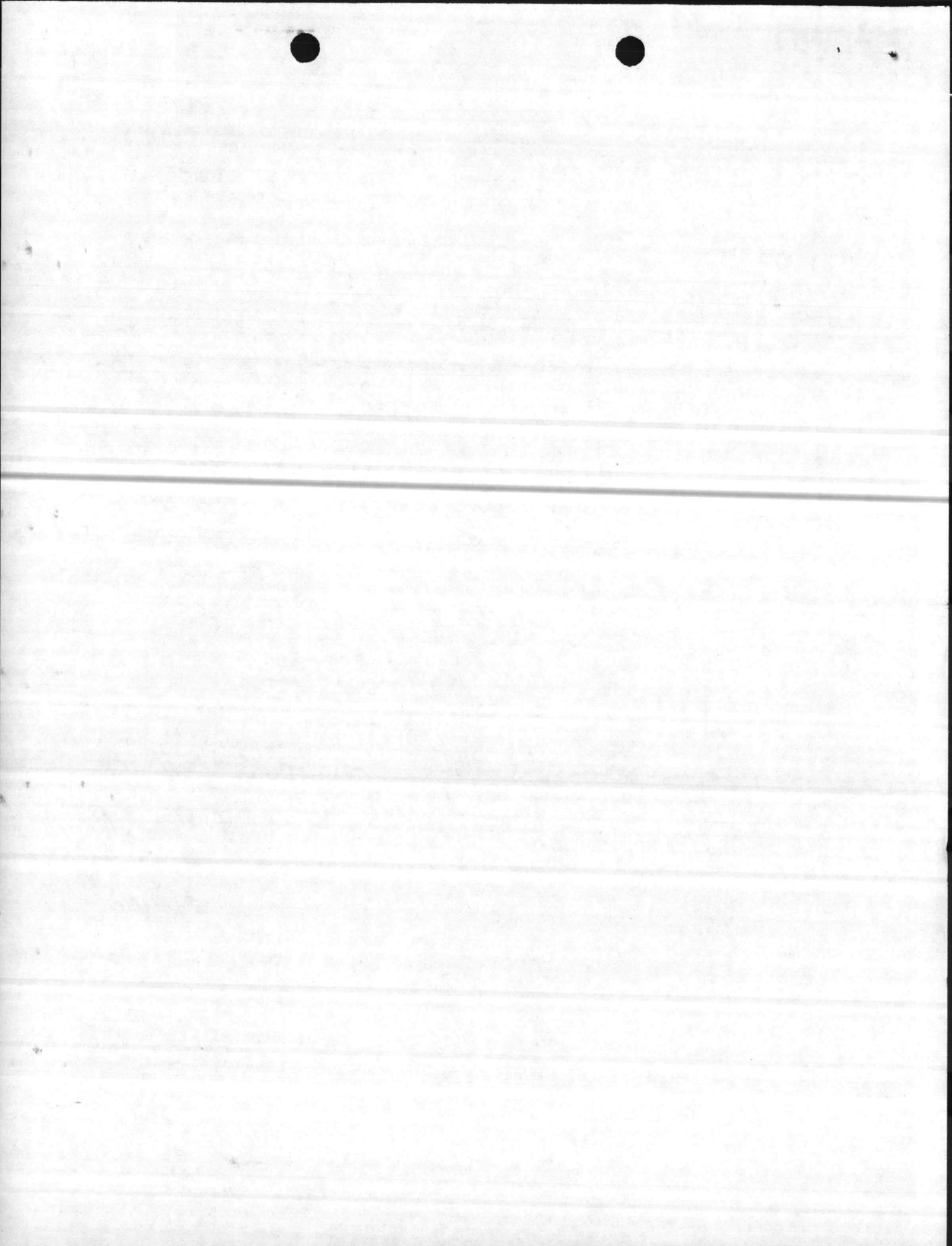
Subj: Trash estimate

Need estimate on  
trash collection at Oak  
Grove. Figure 3 dumpsters  
emptied twice a week

→ Ron

I spoke to MR BROWN about this  
previously. 3 dumpsters twice a  
week would be approx. \$5,500  
per year.

J. C. Talley



BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

2/2/78

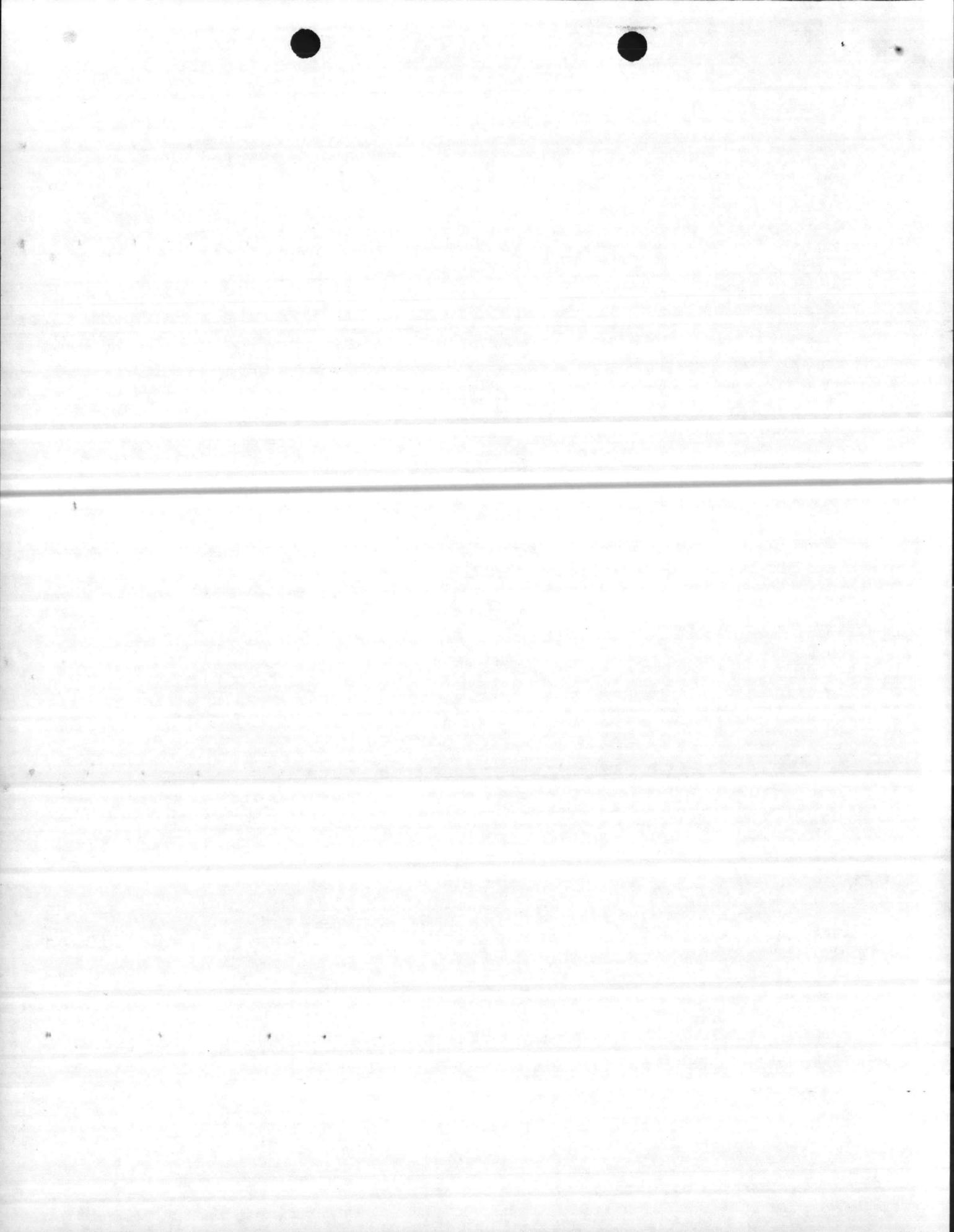
From: Assistant Maintenance Officer

To: *Admin*

Subj: "MOOSE Trash"

Need memo to ACOS, FAK.  
providing estimate of how  
much for us to collect  
trash - based on volume  
& trips cited in NKEA  
note.

*that*  
*note*



D/mo

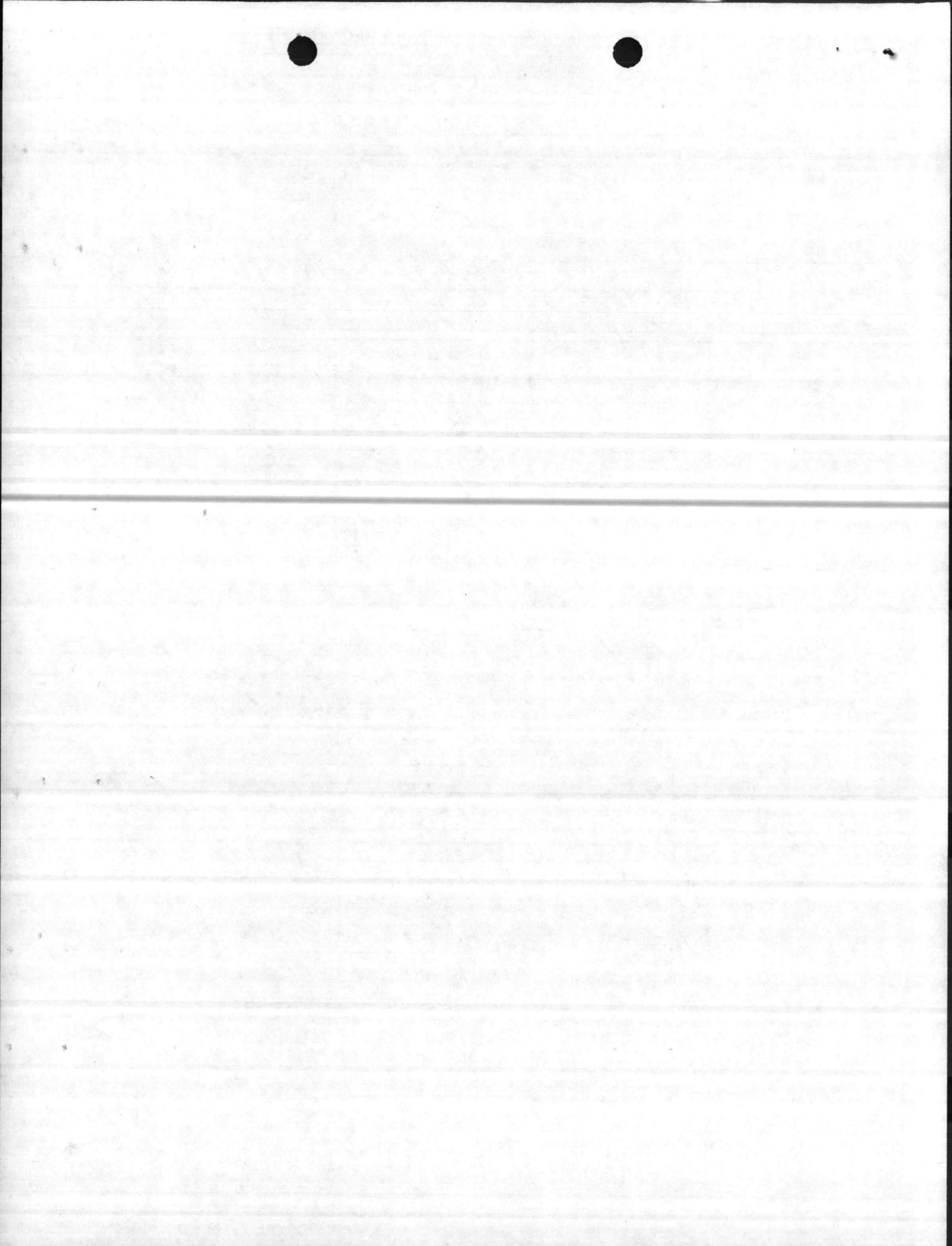
1 FEB 78

As per your request to Julian, the volumes of Refuse generated at oak zone are estimated to be enough to ~~fill 3~~ ~~dumpsters twice Per~~ ~~week~~. This requires twice weekly pickup.

ON Surface would appear that decision in this matter would best rest on comparison of effort + cost of Base Maint. Oper. with a Private Contractor.

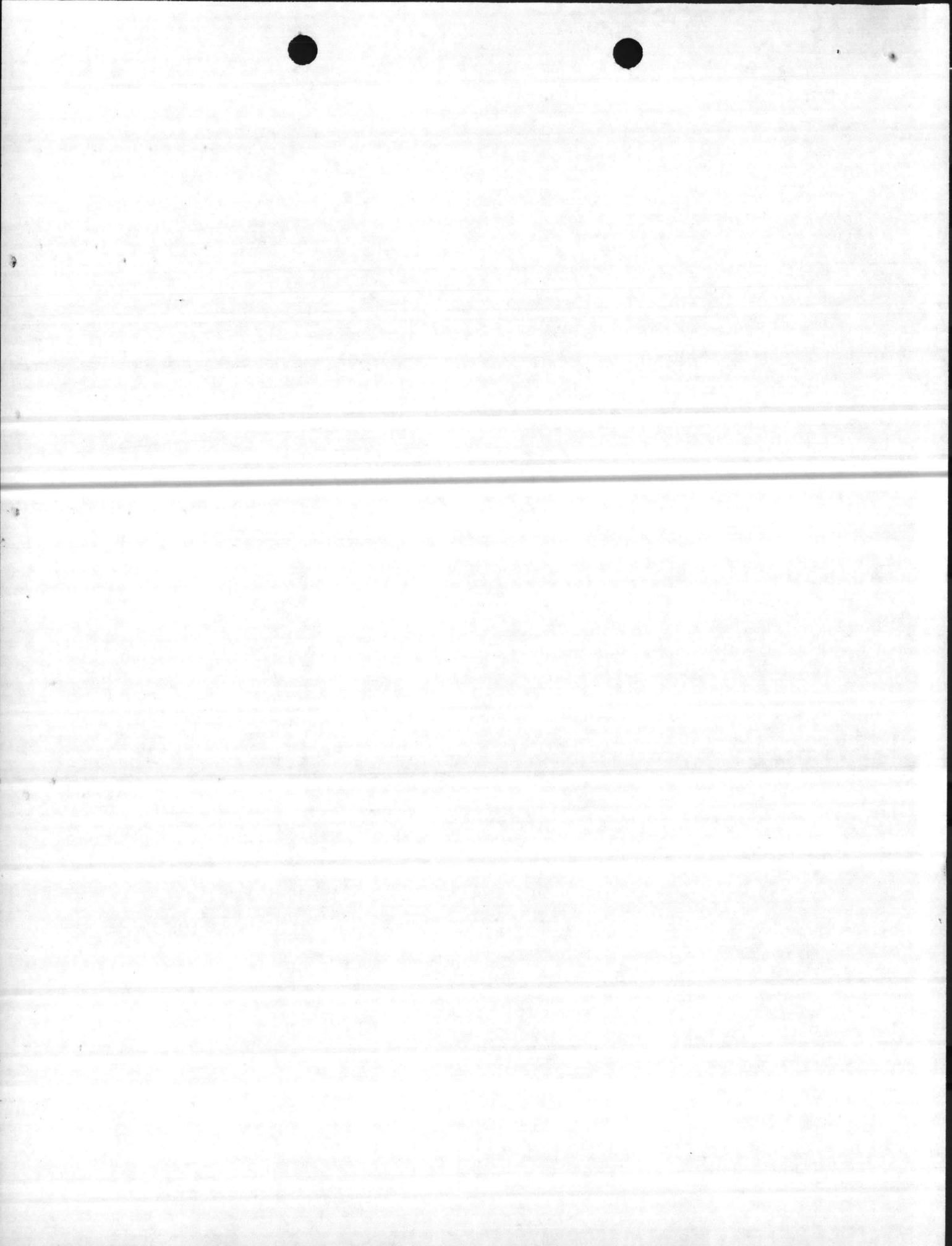
Also, For info it's noted that they are hauling to Trenton + not New Bern as stated by the Moose Coordinator.

N



ACTION INFO INITIAL

|             |  |   |            |
|-------------|--|---|------------|
| BMO         |  |   |            |
| ABMO        |  |   |            |
| MAINT NCO   |  | ✓ | <i>MUR</i> |
| SAFETY CHMN |  |   |            |
| PROP        |  |   |            |
| M&R         |  |   |            |
| OPNS        |  |   |            |
| ADMIN       |  |   |            |
| TELE        |  |   |            |
| UTIL        |  |   |            |
| ENVIRON AFF |  | ✓ |            |
| SECRETARY   |  |   |            |
| F&A BRANCH  |  |   |            |
|             |  |   |            |



ASSISTANT CHIEF OF STAFF, FACILITIES  
HEADQUARTERS, MARINE CORPS BASE

DATE 20 Dec 77

TO:

BASE MAINT O  
PUBLIC WORKS O  
COMM-ELECT O  
MOTOR TRANSPORT O

DIR, QUARTERS & HOUSING  
DIR, BOQ/BSQ  
BASE FIRE CHIEF

ATTN: \_\_\_\_\_

1. Attached is forwarded for info/action.

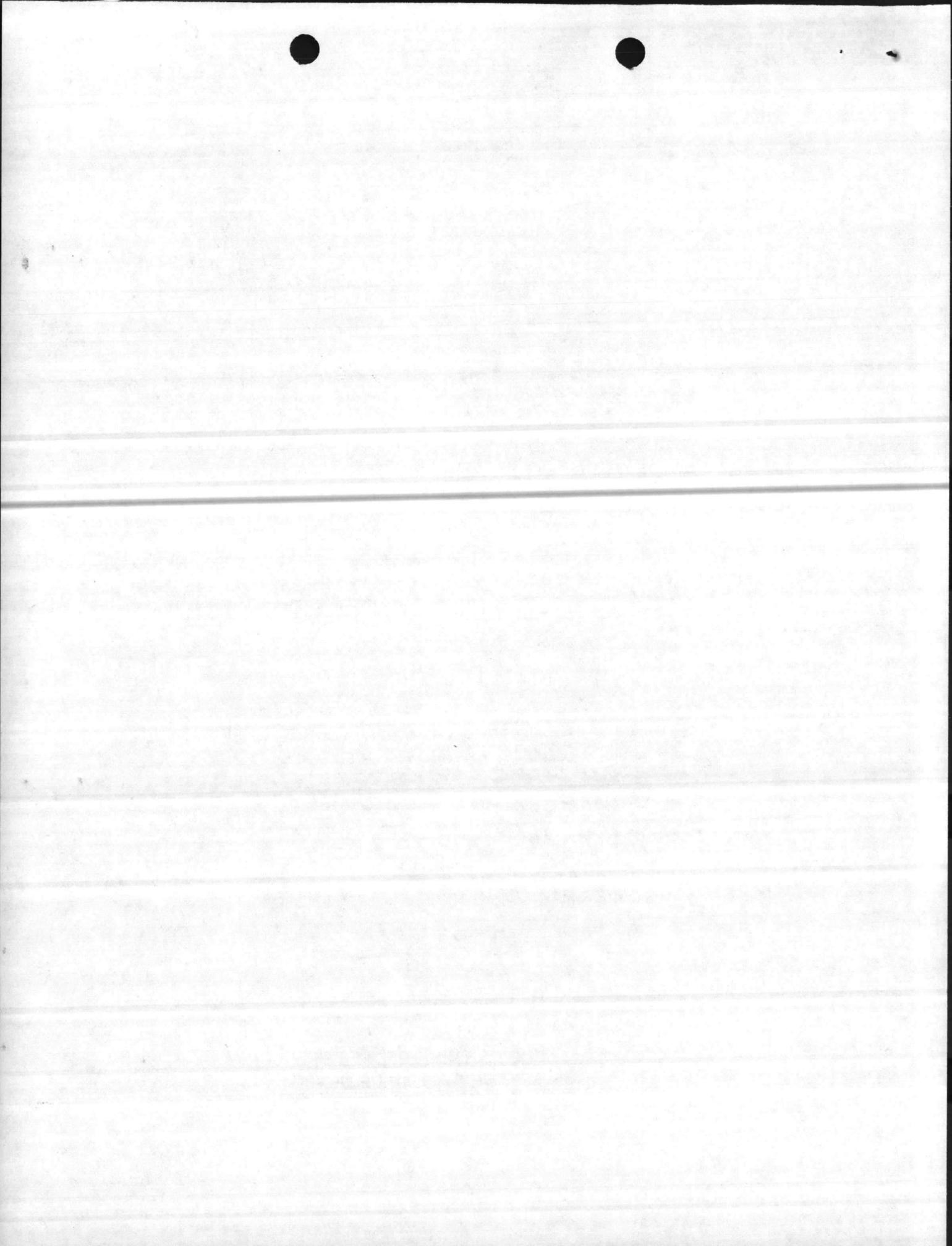
2. Please ~~initial~~ comment, and return all papers to this office.

*Seems their original oral justification  
for MOOSE said they would be  
fully responsible for proper trash disposal*

3. Your file copy

*Honor*

"LET'S THINK OF A FEW REASONS  
WHY IT CAN BE DONE"





UNITED STATES MARINE CORPS  
FORCE TROOPS/2d FORCE SERVICE SUPPORT GROUP  
FLEET MARINE FORCE, ATLANTIC  
CAMP LEJEUNE, NORTH CAROLINA 28542

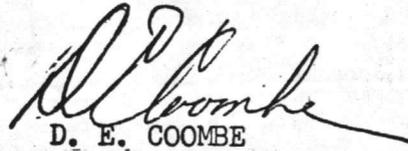
IN REPLY REFER TO  
CSS 4/RDB/jlb  
11000  
23 Nov 1977

From: Commanding General  
To: Commanding General, Marine Corps Base (A C of S, Fac)

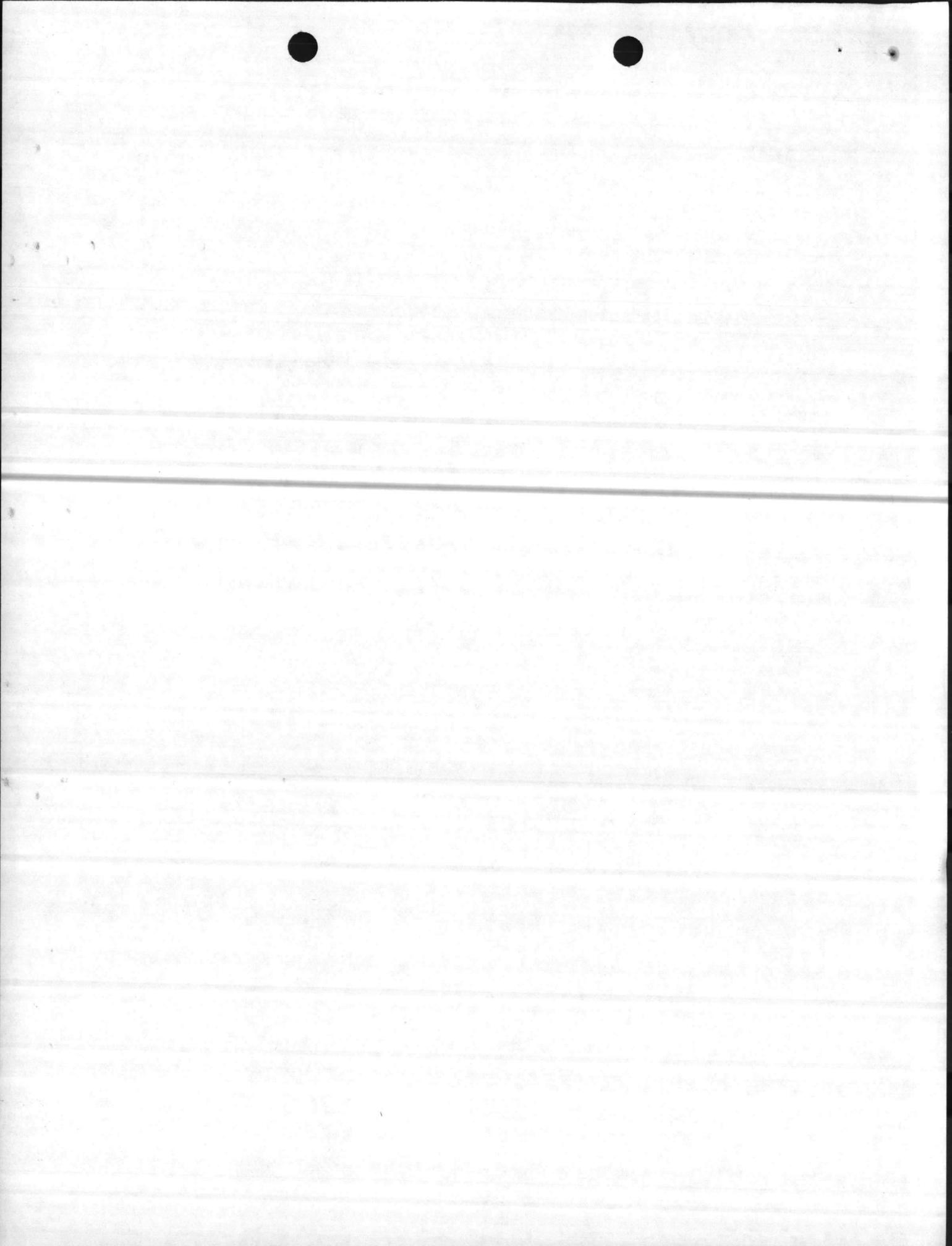
Subj: Refuse Disposal Procedures, Oak Grove

Encl: (1) MOOSE Coord. Memo CSS 7/RWW/wmg 11350 of 18 Nov 77

1. Enclosure (1) is forwarded for consideration. Alternative methods proposed include a contract with land fill operators in Maysville, New Bern, etc.

  
D. E. COOMBE  
By direction

Copy to:  
MOOSE Coord, CSS





UNITED STATES MARINE CORPS  
FORCE TROOPS/2d FORCE SERVICE SUPPORT GROUP  
FLEET MARINE FORCE, ATLANTIC  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

CSS 7/RWW/wmg  
11350  
18 November 1977

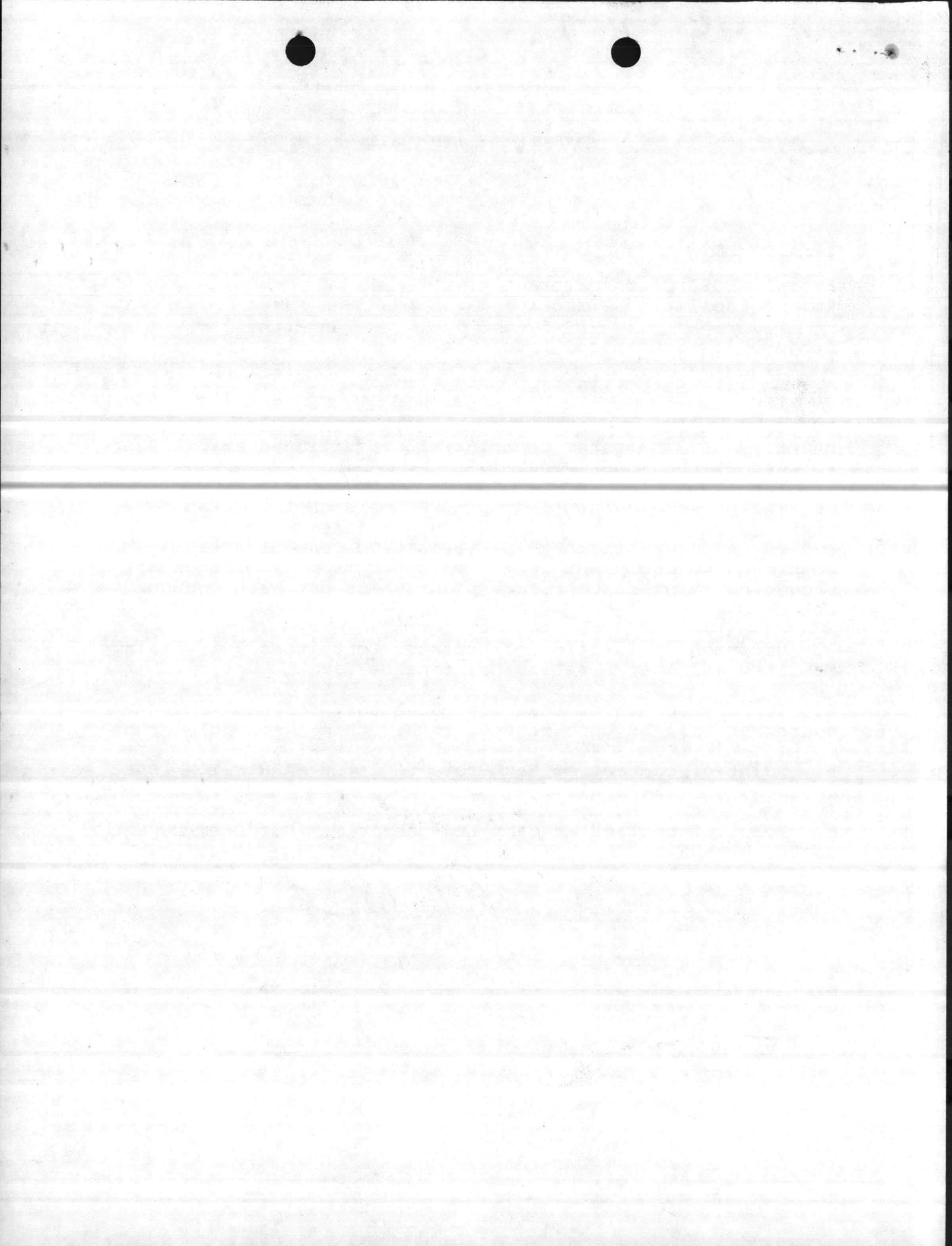
MEMORANDUM

From: MOOSE Coordinator  
To: Facilities Officer  
Subj: Refuse Disposal Procedures  
Ref: (a) BaseO 11350.1F

1. In accordance with reference (a) it is requested that a quantity of 3 Dumpster Containers be positioned at Oak Grove to support the MOOSE Program.
2. The present system is for MOOSE personnel to transport waste material to the New Bern Dump utilizing an M880. This system is unsatisfactory for it is time consuming taking both men and equipment away from their primary mission of providing maintenance to equipment which has been inducted into MOOSE.
3. Recommended location of Dumpster Containers, 2 at Dining Facility and 1 at Berthing/Maintenance Facility.
4. It is recommended that procedure used for emptying container will be upon request rather than a scheduled run.
5. Point of contact at Oak Grove is 1stLt HARRINGTON/1stLt DAVISON, ext 224-8781.
6. Point of contact at Camp Lejeune is Maj R. WEEKS/MGySgt CLAPP, ext 5992.

*R. W. Weeks*  
R. W. WEEKS

Copy to:  
OIC Sub Unit 2  
MOOSE Maint Off



BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/JIW/th  
4100  
21 July 1978

*WAN*

From: Base Maintenance Officer  
To: Public Works Officer

Subj: Military Construction Project P-216; borrow site and masonry rubble disposal site for

Ref: (a) FoneCon btwn Mr. G. Horne, PWD, and Mr. Wooten, BMaintDept, on 19 Jul 78  
(b) BMO memo MAIN/WAN/th 11000 of 15 Apr 77

Encl: (1) Map depicting borrow sites

1. As requested during reference (a), the east side of French Creek (Location Map, Sheet 11 of 22, Grid J-4) is hereby designated as a disposal site for masonry rubble which will be generated when Buildings 104, 108 and 112 are demolished to make room for subject project. If road conditions prevent utilization of the French Creek site, an area behind Building 1317 can be used. Other construction debris will be accepted at the base sanitary landfill.

2. Designated borrow sites are shown on enclosure (1) and it is requested that guidelines for reclaiming borrow sites contained in reference (b) be included in the contract.

C. D. WOOD

BASE MAINTENANCE DEPARTMENT  
Camp Lejeune, North Carolina 28542

MAILED  
100  
21 JULY 1978

From: Base Maintenance Officer  
To: Public Works Officer

Subject: Military Construction Project B-218; borrow site and masonry rubble disposal site

Re: (a) Letter from Mr. R. Larned, B.M. and Mr. William E. Hainforth on 12 Jul 78  
(b) BMO memo W11000 of 12 Apr 77

Encl: (1) Map depicting borrow sites

1. As requested during telephone call on 12 Jul 78, the east side of French Creek (Location Map, Sheet 11 of 22, Grid 1-4) is hereby designated as a disposal site for masonry rubble which will be generated when P-115-1 and P-115-2 are demolished to make room for subject project. It is noted that previous utilization of the French Creek site, as well as other borrow sites, will be restricted to the use of sanitary landfill.

2. Designated borrow sites are shown on enclosure (1) and it is requested that guidelines for reclaiming borrow sites contained in reference (b) be included in the contract.

C. D. MOORE

12 July 1978

Director, Natural Resources and Environmental Affairs Division

Director, Maintenance & Repair

State Requirements Pertaining to Landfill and Its Operation

Encl: (1) Copy of State Regulations

1. The enclosed state regulations are forwarded for your use. Salient aspects of the regulations include: (a) submittal of an operational plan and (b) maintaining three feet between garbage and the ground water table.

WENDELL A. NEAL

12 July 1954

Director, Bureau of Land Management and Environmental Affairs Division

Glenn County, California

State Reclamation Service pertaining to Landfill and the Operation

of the Landfill

The enclosed are for your information and are forwarded for your use. The enclosed of the reclamation include: (a) a summary of the reclamation project and (b) a detailed description of the project and the ground water table.

WENDELL A. HEAL

BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/WAN/th  
4100  
26 June 1978

From: Base Maintenance Officer  
To: Assistant Chief of Staff, Facilities

Subj: Requirement for sanitary facilities near ranges in Verona Loop;  
comments concerning

Ref: (a) FoneCon btwn Col Kovach, AC/S Fac, and Mr. Neal, BMaintDept,  
on 22 Jun 78  
(b) FoneCon btwn Mr. Holdaway, Regional EPA, and Mr. Wooten,  
Marine Corps Base, on 23 Jun 78

1. As a follow-up to reference (a), the following comments are  
submitted.

a. There are no firm guidelines in this area except that precautions  
should be taken in matters like this to prevent contamination of surface  
or groundwaters and that every effort should be made to maintain sanitary  
conditions.

b. Those ranges with high water tables will require as an interim  
measure the placement of chemical toilets. A long term procedure that  
was proposed in reference (b) is the placement in the ground of a large  
concrete vault that may be emptied by pumping on an as needed basis.

c. Those ranges with no groundwater problems should have some means  
of maintaining a sanitary situation.

d. The Preventive Medicine Officer in similar situations in the past  
has ruled against heavy or prolonged use of open trenches or pits.

2. If desired, this Department will determine approximate groundwater  
levels by ranges in Verona Loop on receiving a listing of ranges to be  
used.

C. D. WOOD

*WDM*  
*SWR*

ARMY MAINTENANCE DEPARTMENT  
Training Corps Base  
Camp Johnson, North Carolina 28520

MAIN/VA/ALP  
4100  
26 June 1978

From: The Maintenance Officer  
For: Assistant Chief of Staff, Facilities

Subject: Recommendation for sanitary facilities near ranges in Vernon Loop  
Comments concerning

Ref: (a) Forward from Col Kovach, C&S Fac, and Mr. Neal, Maintenance  
on 22 Jun 78  
(b) Forward from Mr. Hefner, Regional TWA, and Mr. Wooten,  
Training Corps Base, on 22 Jun 78

1. As a follow-up to reference (b), the following comments are submitted:
  - a. There are no line indicators in this area except that prescriptions should be taken in pattern like this to prevent contamination of surface or containers and that every effort should be made to maintain sanitary conditions.
  - b. Those ranges with high water tables will require an interim measure the placement of chemical toilets. A long term procedure that was proposed in reference (a) is the placement in the ground of a large concrete vault that may be emptied by pumping on an as needed basis.
  - c. Those ranges with no groundwater problems should have some means of maintaining a sanitary situation.
  - d. The Preventive Medicine Officer in similar situations in the past has raised against heavy or prolonged use of open trenches or pits.
  - e. If desired, this Department will determine appropriate groundwater levels by ranges in Vernon Loop on receiving a listing of ranges to be used.

07 07 WOOD

MAIN/JIW/th  
4100  
2 June 1978

Mr. Danny Sharpe  
District Conservationist  
Post Office Box 266  
Jacksonville, North Carolina 28540

Dear Mr. Sharpe:

It is requested that additional technical assistance be provided Marine Corps Base, Camp Lejeune in the preparation of a Sanitary Landfill Operation Plan under the cooperative agreement between the Soil Conservation Service and the Base.

More specifically, the Base would like to develop a soil stabilization plan for the site and explore the possibility of draining the proposed expansion area.

Your assistance in this matter will be appreciated.

Sincerely,

C. D. WOOD  
Colonel, U. S. Marine Corps  
Base Maintenance Officer  
By direction of the Commanding General

WASH DC  
MAY 19 1954

U.S. DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C.

TO : SAC, NEW YORK  
FROM : SAC, PHOENIX  
SUBJECT: [Illegible]

Re Phoenix letter to New York dated 5/11/54.

Enclosed for New York are two copies of a letterhead memorandum dated and captioned as above.

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. Wendall 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

*WJW*  
*BLT*

1944  
1945

... of ...  
... of ...  
... of ...  
... of ...

... of ...  
... of ...  
... of ...

... of ...  
... of ...

... of ...  
... of ...  
... of ...

MAIN/JIW/th  
4100  
12 April 1978

Mr. Danny Sharpe  
District Conservationist  
Post Office Box 266  
Jacksonville, North Carolina 28540

Dear Mr. Sharpe:

It is requested that technical assistance be provided Marine Corps Base, Camp Lejeune in the preparation of a Sanitary Landfill Operational Plan under the cooperative agreement between the Soil Conservation Service and the Base.

The State of North Carolina requires a plan showing sufficient soil borings to provide geological data of the landfill site. There is also a requirement for soil classifications of the area.

A copy of the state regulations is enclosed for your information.

Your assistance in this matter will be appreciated.

Sincerely,

C. D. WOOD  
Colonel, U. S. Marine Corps  
Base Maintenance Officer  
By direction of the Commanding General

Enclosure

*WAA*  
*ME*

SECRET  
1944

UNITED STATES  
NAVY  
OFFICE OF THE CHIEF OF BUREAU OF NAVAL PERSONNEL  
WASHINGTON, D. C.

Handwritten scribbles and initials on the left margin.

It is requested that the attached be provided to the Bureau of Naval Personnel in the event of a change of command. This will insure the continuity of the personnel service.

The Bureau of Naval Personnel is requested to provide the necessary information to the Bureau of Naval Personnel in the event of a change of command.

A copy of the attached is being furnished to the Bureau of Naval Personnel in the event of a change of command.

Sincerely,  
[Signature]

Colonel W. S. [Name]  
[Title]

Encl.

MAIN/WAN/th  
4100  
13 March 1978

Mr. Art Linton  
Federal Facilities Coordinator  
Environmental Protection Agency, Region IV  
343 Courtland Street  
Atlanta, Georgia 30309

Dear Mr. Linton:

This is pertaining to an earlier conversation between you and Mr. Wendell Neal concerning environmental violations associated with the Base Sanitary Landfill.

The Base is listed as operating a landfill that violates air and water quality standards. This listing is based on a report filed by Camp Lejeune but does not reflect current conditions. It is requested that based on the following justification Camp Lejeune Marine Corps Base be removed from the subject list.

A. The Base Fire Department periodically burned scrap lumber at the landfill site as a training exercise. This practice was terminated in October 1976.

B. The trench method of landfilling allowed waste to come in contact with groundwater. The current method of landfilling is a "ramp" method that does not permit landfilling at a depth that would allow waste contact with groundwater. Additionally, an earthen dike has been created between the landfill and the nearest stream to create a sand filter effect on leachate produced from earlier trench type landfilling.

The Base is maintaining close liaison with the State of North Carolina in this environmental area. Presently, topographic feature maps and other engineering data are being developed to support an application for a state permit to operate the landfill.

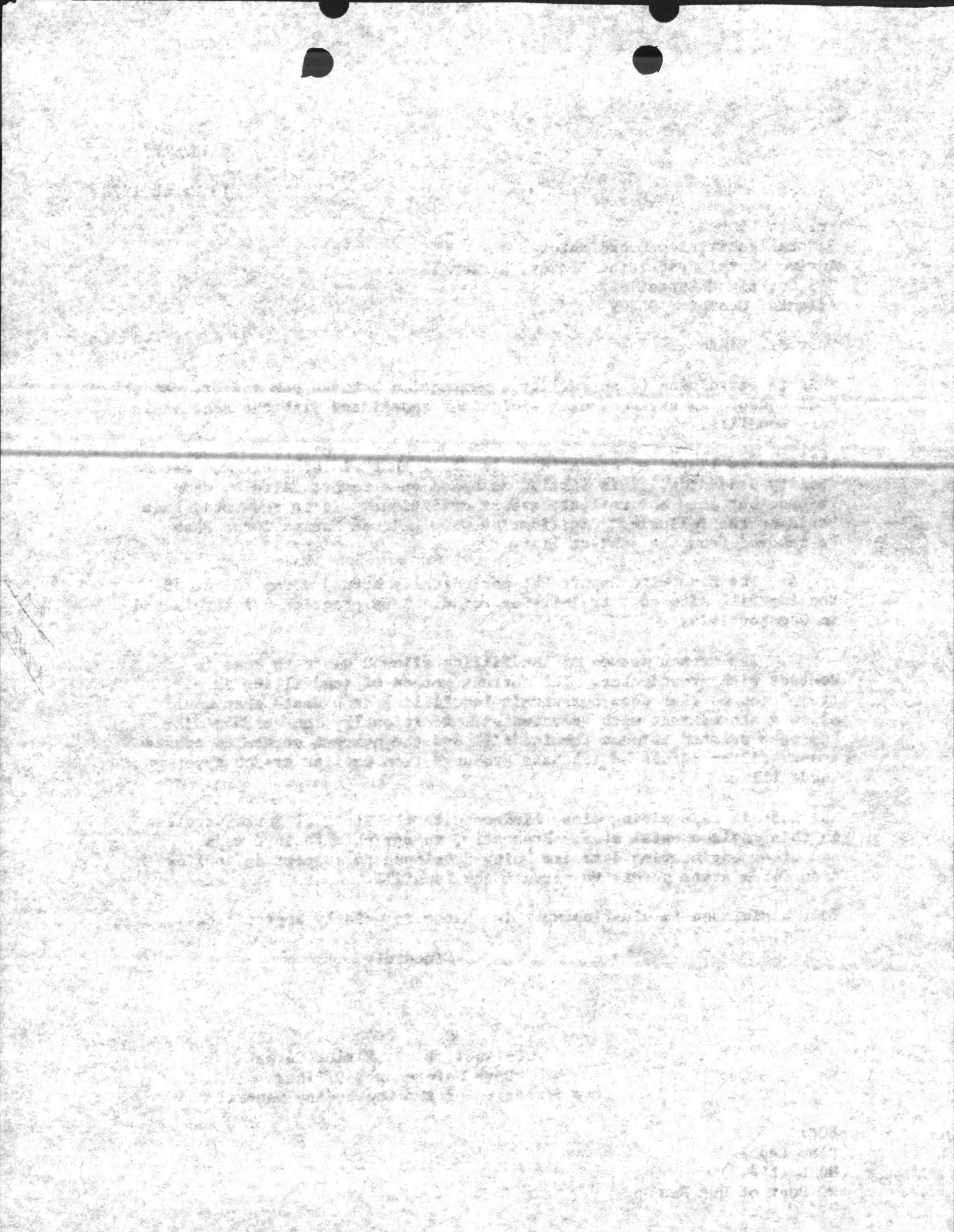
Your assistance in clearing up this matter is greatly appreciated.

Sincerely,

C. D. WOOD  
Colonel, U. S. Marine Corps  
Base Maintenance Officer  
By direction of the Commanding General

BCC:  
Base Legal  
HOMC (LFF-2)  
NC Dept of Hum Res

*WJN*  
*OWC*



ENVIRONMENTAL HEALTH/SANITATION INSPECTION REPORT

5ND NRM C CLNC 6240/1 (11/76)

*File  
92  
9 March 78*

FROM: Commanding Officer, Naval Regional Medical Center, Camp Lejeune, N.C.

TO: *Base Maintenance Officer, MCB*

REF: (a) Base Order P6240.4

1. In accordance with reference (a) an environmental health/sanitation inspection of Sanitary Landfill, CLNC was conducted on 2 MAR 78 by HRC SCHWAB.

Findings and recommended corrective action are as follows.

AN \* INDICATES THAT THE FINDING HAS BEEN PREVIOUSLY REPORTED.

| FINDINGS   | RECOMMENDED CORRECTIVE ACTION |
|--|-------------------------------|
| <p>No significant environmental sanitation discrepancies were noted.</p> |                               |

2. The overall sanitary condition was found to be:

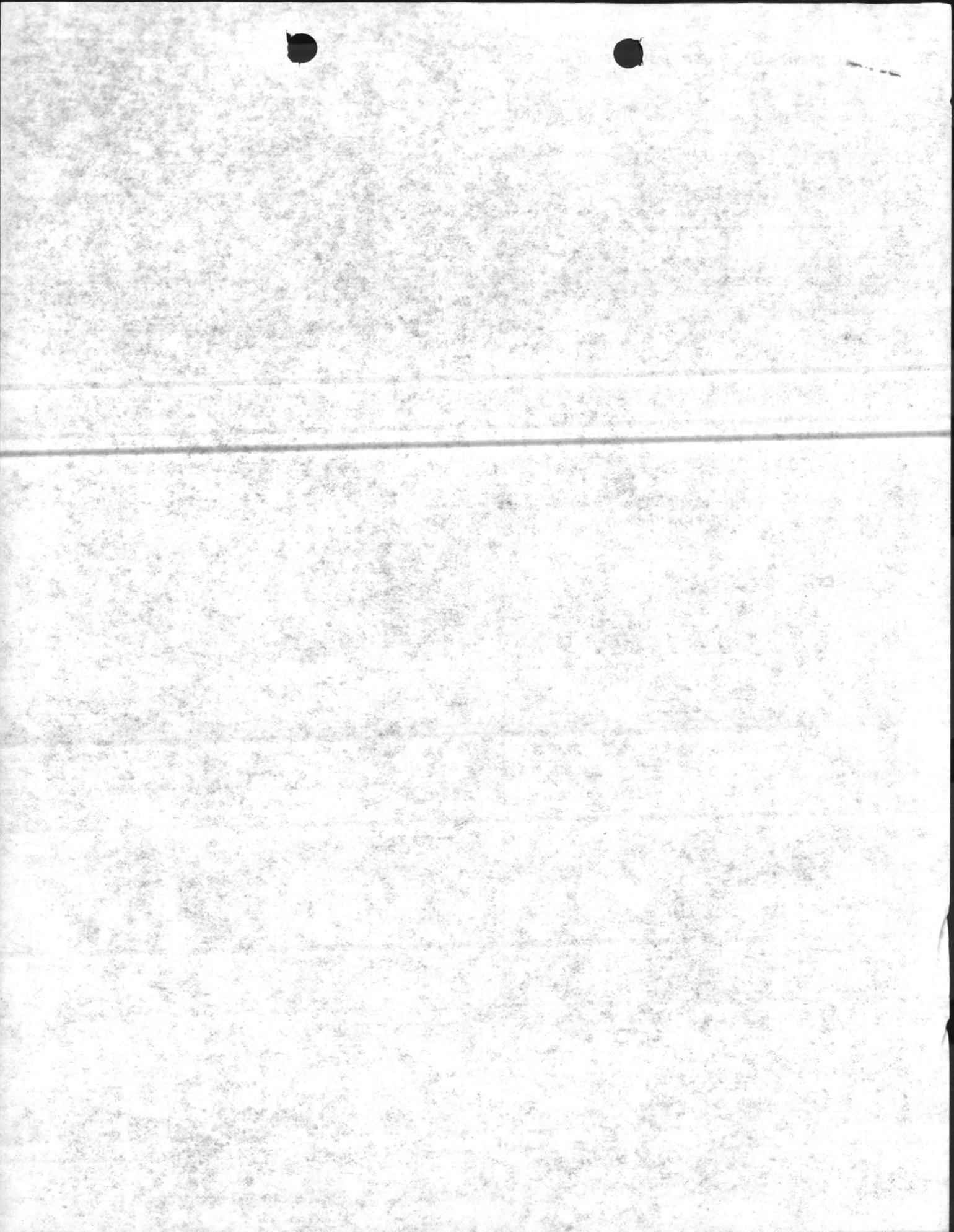
*Satisfactory*

Copy to: *A/CS Personnel Services  
Base Maintenance Services  
AREA 9*

APPROVED:

*P. R. Santoval*

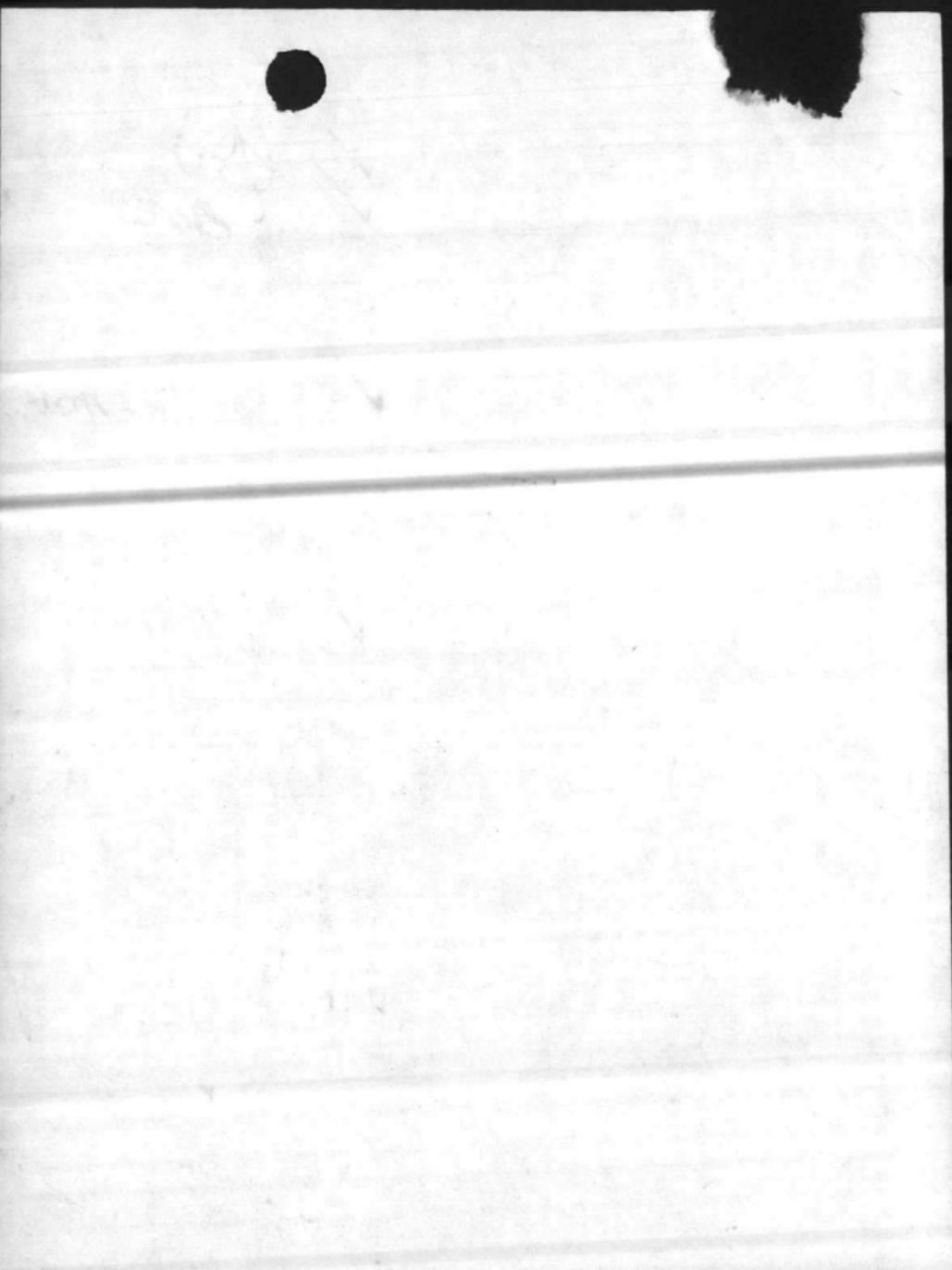
*P. R. SANTOVAL, LTJG, MSC458*  
Chief, Occupational and Preventive Medicine Service



ACTION    INI    INITIAL

|             |                               |   |                    |
|-------------|-------------------------------|---|--------------------|
| BMO         |                               | ✓ | <i>[Signature]</i> |
| ABMO        |                               | ✓ | <i>[Signature]</i> |
| MAINT NCO   |                               |   |                    |
| SAFETY CHMN |                               |   |                    |
| PROP        |                               |   |                    |
| M&R         | <i>[Signature]</i>            | ✓ | <i>[Signature]</i> |
| OPNS        | <del><i>[Signature]</i></del> |   |                    |
| ADMIN       |                               |   |                    |
| TELE        |                               |   |                    |
| UTIL        |                               |   |                    |
| ENVIRON AFF |                               | ✓ | <i>[Signature]</i> |
| SECRETARY   |                               |   |                    |
| F&A BRANCH  |                               |   |                    |
| UMACS       |                               |   |                    |

*[Signature]*





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

IN REPLY REFER TO

FAC:TRB:mkc  
P-11100/5

FEB 17 1978

From: Commanding General  
To: Commanding General, Force Troops/2d Force Service Support Group,  
FMF, Atlantic

Subj: Refuse disposal procedure, Oak Grove

Ref: (a) CG, ForTrps/2dFSSG ltr CSS 4/RDB/jlb 11000 of 23 Nov 1977 w/encl  
(b) Chmn, Environmental Enhancement/Environmental Impact Review Bd  
ltr FAC:JK:mkc 5420/3 of 23 Mar 1977 w/1 end

1. Enclosure (1) to reference (a) requested that three dumpsters be placed at Oak Grove with the attendant servicing being accomplished by Marine Corps Base on an "as required" basis. Reference (a) suggested, as an alternative method, to contract this service in the Maysville area.

2. An on-site survey has been conducted with the following results:

a. The volume of refuse now generated at Oak Grove is estimated to fill three dumpsters twice a week.

b. The estimated cost of removal and disposal by Marine Corps Base is not justified when considering the distance to be traveled and lost time generated by the nonavailability of the equipment to perform like services at Marine Corps Base, Camp Lejeune.

3. The request to provide trash removal at Oak Grove is considered to be contrary to the understanding reached during early planning conferences and briefings wherein the MOOSE program was described to be austere and requiring minimum of support. During at least one planning conference trash removal was addressed with agreement that MOOSE personnel would accomplish this function. This is supported by the statement contained in paragraph 5d of reference (b), which inferred that this service would be accomplished by the tenant at no expense to Marine Corps Base.

4. This headquarters interposes no objection to the contracting of the trash removal at Oak Grove. This service may be accomplished through the Base Contracting/Purchasing Officer with funds provided by the Commanding General, Force Troops/2d FSSG.

F. W. TIEF

→ Copy to:  
BMaintO  
BContracting/Purchasing O

UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP LEJUNE NORTH CAROLINA 28551



FEB 17 1978

TO: [Illegible]  
FROM: [Illegible]  
SUBJECT: [Illegible]

[The following text is extremely faint and largely illegible due to the quality of the scan. It appears to be a memorandum or report containing several paragraphs of text.]

F. W. [Illegible]

[Illegible text and markings at the bottom right of the page]

MAIN/JIW/th  
4100  
16 Feb 1978

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

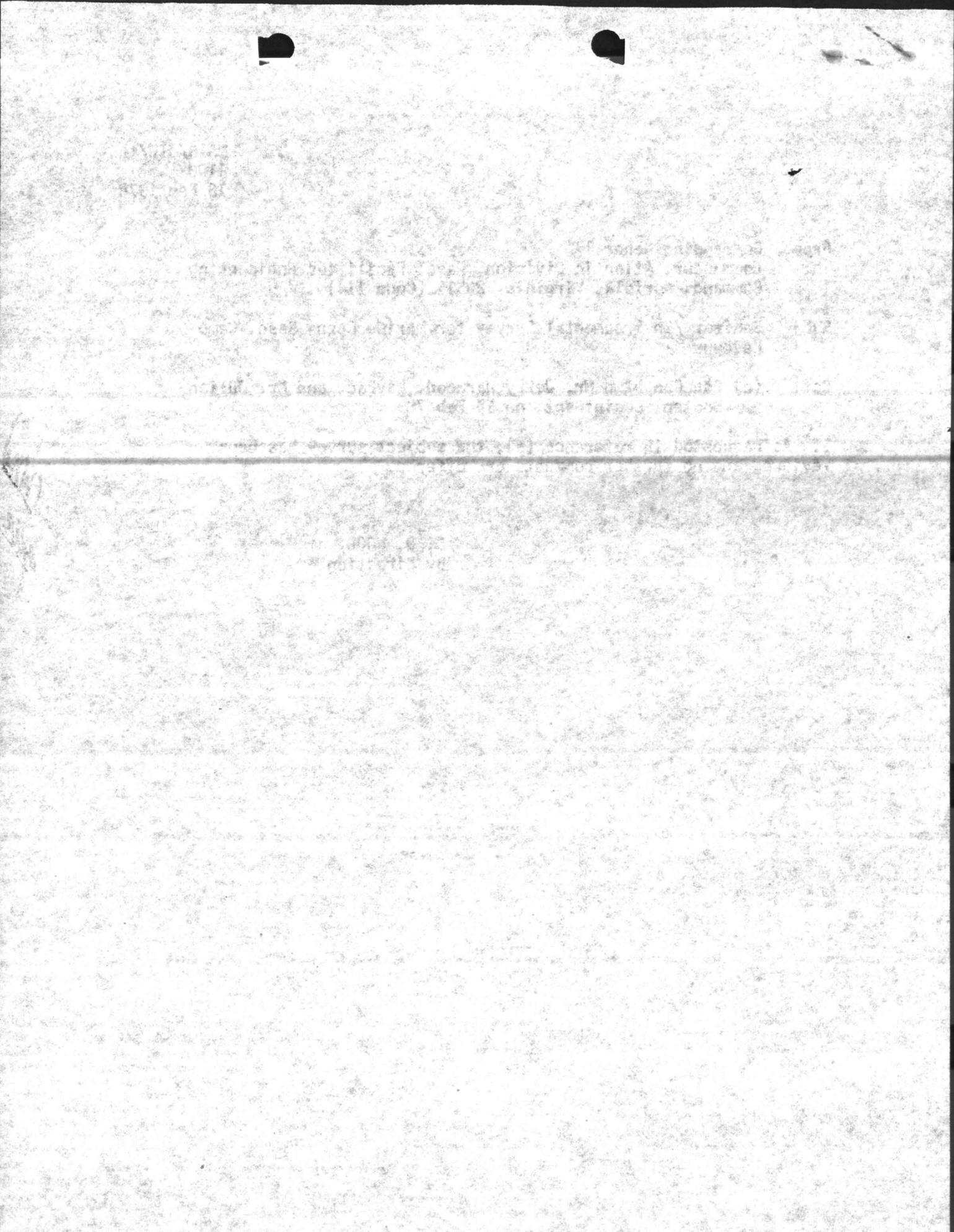
Subj: Sanitary/Environmental Survey for Marine Corps Base, Camp  
Lejeune

Ref: (a) FoneCon btwn Mr. Jerry Harwood, NavFac, and Mr. Julian  
Wooten, BMaintDept, on 15 Feb 78

1. As requested in reference (a), the subject survey has been  
reviewed and no further comments are offered.

C. D. WOOD  
By direction

*CDW*  
*WUE*





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

*maint  
File under  
Solid Waste*

IN REPLY REFER TO  
FAC:BKB:gcs  
6240/6  
25 Jan 1978

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

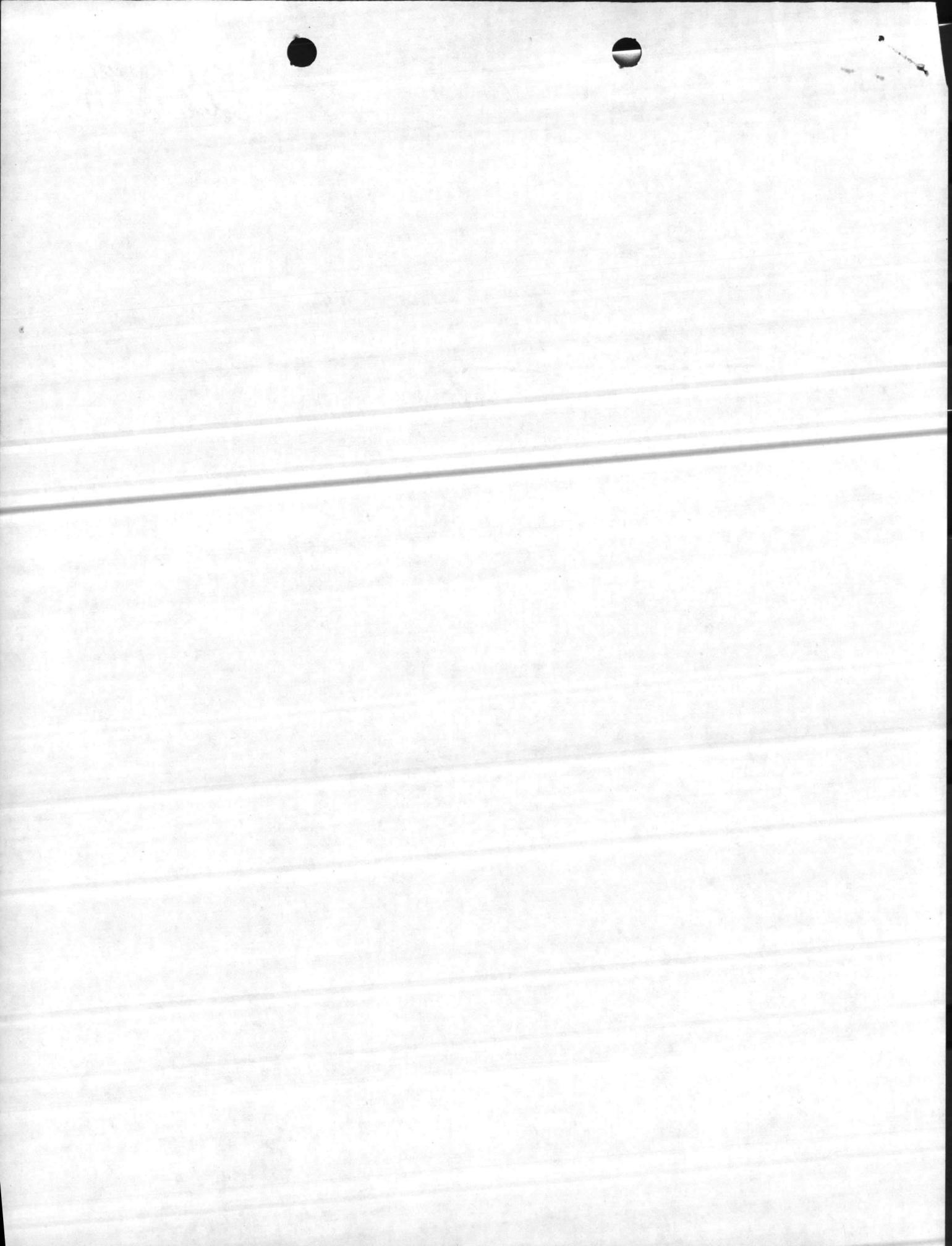
Subj: Waste Paper Recovery Program; implementation of

Ref: (a) Cmdr, Atlantic Div ltr 114:PPC 6240 of 20 Jan 1978

Encl: (1) Source Separation Implementation Report

1. As requested by reference (a), enclosure (1) is forwarded.

*Kovach*  
J. KOVACH  
By direction



MCBul 6240  
 14 Mar 1977

From: Commanding General, Marine Corps Base, Camp Lejeune, N. C. 28542  
 To: Commandant of the Marine Corps (Code LFF)  
 Subject: Source Separation Implementation Report (Report Symbol DD 6240-09)

1. Solid Waste Generation Rate: 135 TPD

|  |   |   |   |
|--|---|---|---|
| 2. Office Wastes:<br>(less computer wastes)<br>See narrative | Included  | Excluded                                  | Tons Recovered<br><br>TPY                                 |
|  | Bldgs: _____<br>Personnel: _____  | Bldgs: <u>7</u><br>Personnel: <u>1236</u> |   |
| 3. Computer Wastes:<br>See narrative                         | Generation Points: Included <u>2</u>  |   | Tons Recovered<br><br><u>30</u> TPY                       |
| * 4. Used Newspapers:<br>See narrative                       | Family Housing Units: Included <u>3770</u><br>Excluded <u>112 5</u><br><u>485 8</u><br><u>560</u> |   | Tons Recovered<br><u>5</u> TPY<br>16 Jul 77 - 30 Sep 77   |
| 5. Corrugated Wastes:  | Generation Points: Included <u>48</u><br>8 Computers<br>40 Dumpsters                              |   | Tons Recovered<br><u>1209</u> TPY<br>1 Oct 76 - 30 Sep 77 |

6. Proceeds of Sale Returned to Activity Per Year: \$ 2,706.00  
1 Oct 76 - 30 Sep 77

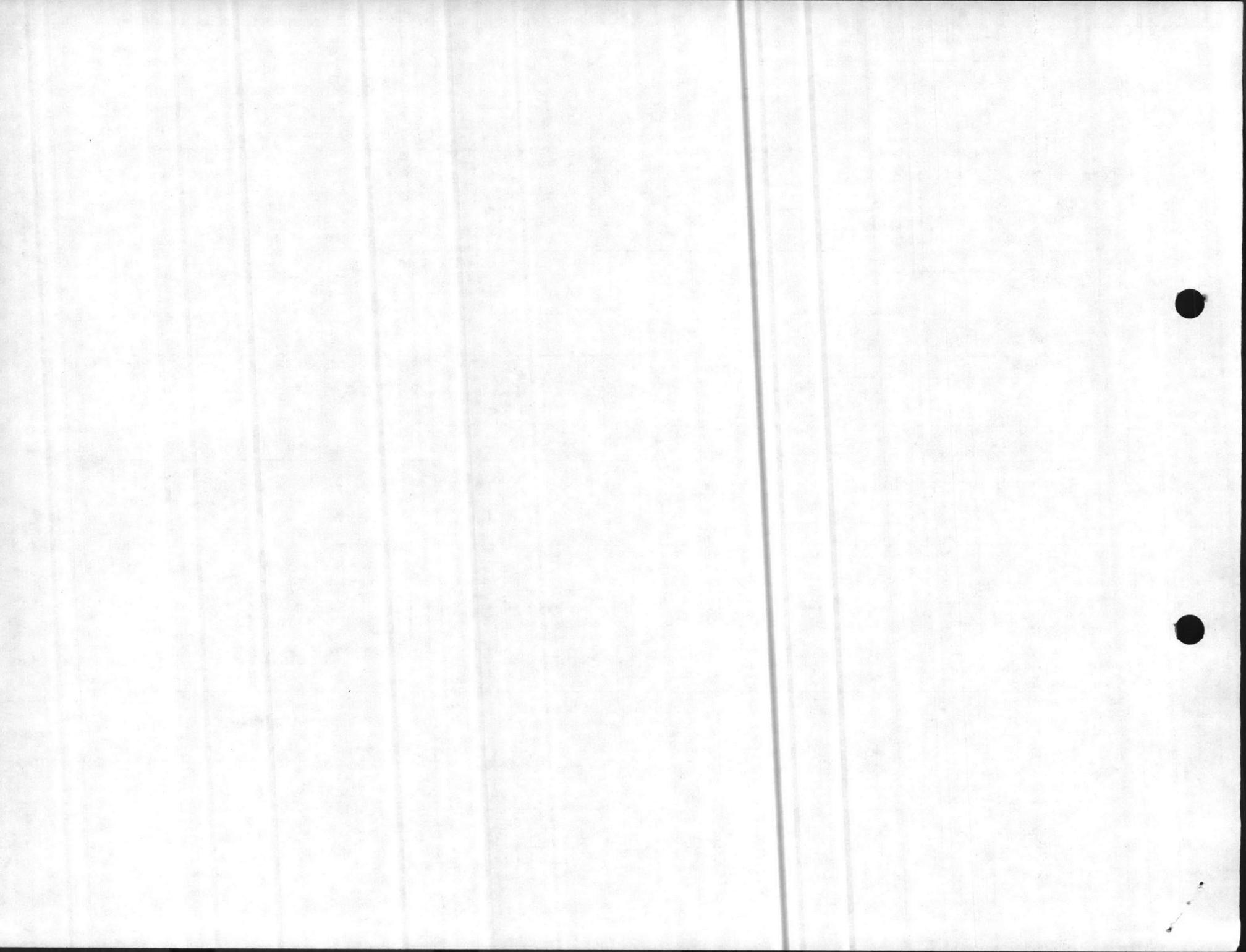
7. Narrative: (Attach pages as required)

8. \*Feasibility: Attach "Cost Analysis Supplement to Non-Implementation Report" to justify "0" tons recovered in right-hand columns of items 2, 4, and 5, only where the qualifying factors of 100 office workers, 500 families, and 10 tons/months corrugated waste have been met.

Signature \_\_\_\_\_

J. KOVACH  
By direction

ENCLOSURE (4)  
 Ch 1 (10 Aug 1977)



## 7. Narrative

a. Office wastes - No program has been established to separate and collect office wastes. However, the Solid Waste Management Master Plan, prepared by Stearns, Conrad and Schmidt (SCS) Engineers, and the Federal Register have been reviewed and a Cost Analysis Supplement prepared. The following additional information is provided:

(1) Seven locations at Camp Lejeune have been identified as meeting the personnel requirements for source separation of high grade paper. Estimates of waste generation, percentage of recyclable high grade paper and associated costs and revenues are based on the findings of the SCS study.

(2) As shown by the cost analysis supplement, a program to recover high grade office paper is not cost effective at this time.

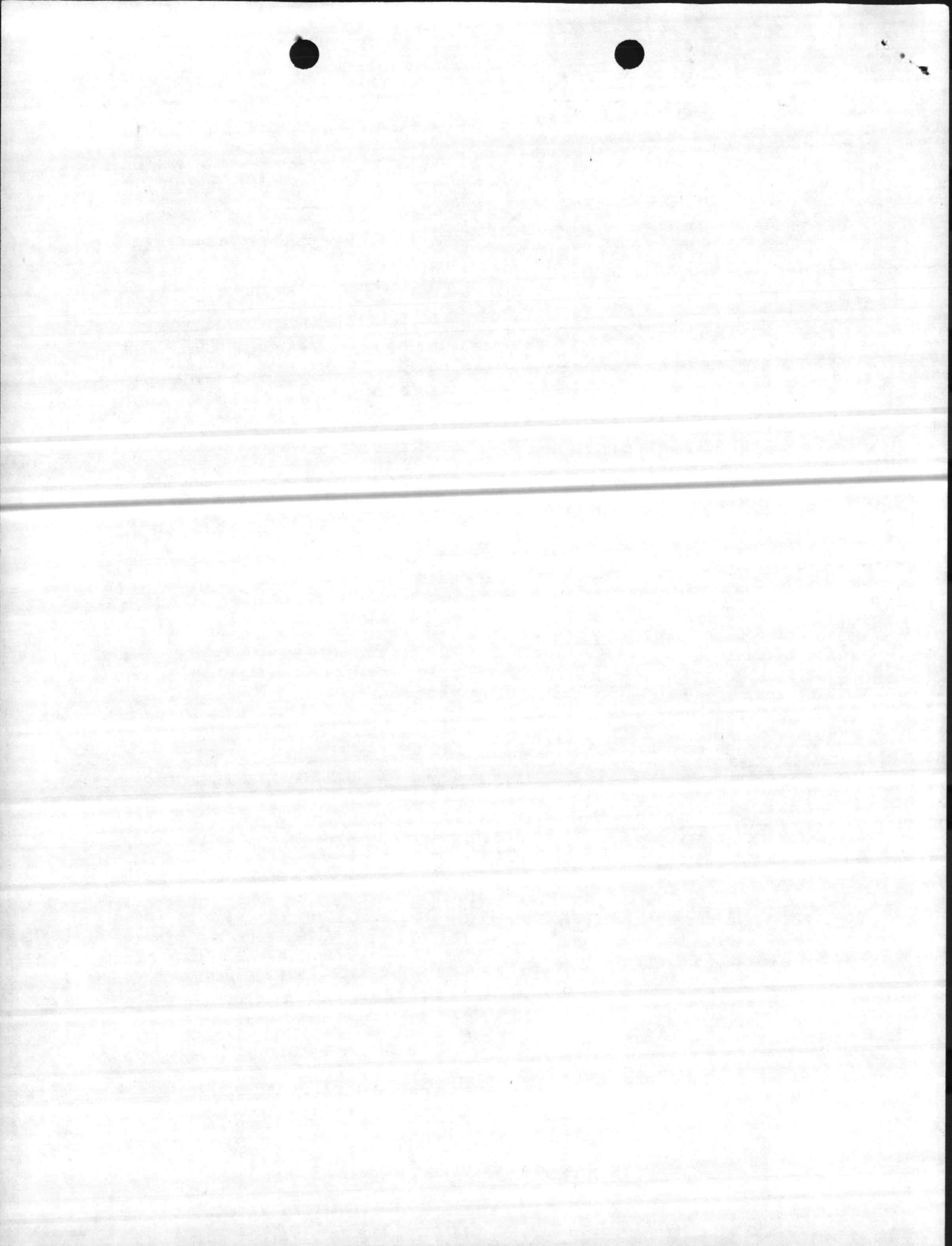
b. Computer Waste - Tab cards and other computer wastes are currently turned in to the Defense Property Disposal Office for disposal. Sales are made on individual contracts, with a total of 30 tons being sold in FY 77 for a return of \$4,751.00.

c. Used Newspapers - A program to recycle used newspapers was initiated in mid-1977. The IPY figure indicated in paragraph 4 (5 tons) is the actual amount of used newspaper collected to date, with 26 ton/year as a projected total. Containers are located at high usage areas in or near family housing. The 560 excluded quarters include 8 quarters at the Rifle Range and 5 quarters at Courthouse Bay, 112 trailer spaces and 435 quarters at the Marine Corps Air Station (H), New River. All excluded areas are remote and are considered impractical for inclusion in the program.

## 8. Feasibility

a. At present, only corrugated waste, used newspapers and computer wastes are being processed, as shown in paragraph 4 of this report. Evidence based on the SCS study indicates that these are the only economically feasible materials to include in resource recovery at present.

b. The current method of using the Onslow County Workshop personnel (mentally or physically handicapped individuals) to operate the processing equipment has proven to be a very effective method. The SCS study cites this program as having a significant potential at other military bases and considers the program at Camp Lejeune as a model in this approach to materials recovery.



**COST ANALYSIS SUPPLEMENT TO NON-IMPLEMENTATION REPORT**  
(0150-EPA-AN)

(Read instructions on reverse before completing form)

|  |                              |                                |   |                                |                             |                                |
|--|------------------------------|--------------------------------|---|--------------------------------|-----------------------------|--------------------------------|
| AGENCY NAME (include Bureau, Office, etc)<br>Department of the Navy<br>Headquarters, U.S. Marine Corps<br>Washington, D.C. 20380 |                              |                                | FACILITY NAME AND ADDRESS<br>Commanding Officer<br>Marine Corps<br>Camp Lejeune, North Carolina |                                |                             |                                |
|  | PART A<br>(High-Grade Paper) |                                | PART B<br>(Newspapers)  |                                | PART C<br>(Waste Composted) |                                |
| 1. Factor which requires compliance  | NO. OF EMPLOYEES             |                                | NO. OF FAMILIES   |                                | TONS COMPOSTED              |                                |
|  | COLUMN 1                     | COLUMN 2                       | COLUMN 1  | COLUMN 2                       | COLUMN 1                    | COLUMN 2                       |
|  | PRIOR TO IMPLEMENTATION      | PROJECTED AFTER IMPLEMENTATION | PRIOR TO IMPLEMENTATION   | PROJECTED AFTER IMPLEMENTATION | PRIOR TO IMPLEMENTATION     | PROJECTED AFTER IMPLEMENTATION |
| Number of Employees  |                              |                                |   |                                |                             |                                |
| 2. Estimated Waste Generation (tons/mo.)   |                              |                                |   |                                |                             |                                |
| A. Total mixed   | 18.5                         | 10.                            |   |                                |                             |                                |
| B. Recyclable  | N/A                          |                                | N/A   |                                | N/A                         |                                |
|  |                              | 7.5                            |   |                                |                             |                                |
| 3. Estimated Costs (\$/mo.)  |                              |                                |   |                                |                             |                                |
| A. Collection Labor  | 290.00                       | 473.00                         |   |                                |                             |                                |
| B. Collection Equipment  | 65.00                        | 172.00                         |   |                                |                             |                                |
| C. Storage   | 4.00                         | 4.00                           |   |                                |                             |                                |
| D. Administration  | 0                            | 53.00                          |   |                                |                             |                                |
| E. Disposal  | 50.00                        | 29.00                          |   |                                |                             |                                |
| TOTAL  | 409.00                       | 736.00                         |   |                                |                             |                                |
| 4. Revenues (\$ mo.)   | N/A                          | 75.00                          | N/A   |                                | N/A                         |                                |
| 5. Net Costs (\$/mo.)  | 409.00                       | 661.00                         |   |                                |                             |                                |
| 6. Savings (\$/mo. - if loss, indicate by minus sign)  | N/A                          | 257.00                         | N/A   |                                | N/A                         |                                |

EPA Form 2700-8 (6-77)

ENCLOSURE (4)  
Ch 1 (10 AUG 1977)

MCH 1 6240  
14 MAR 1977





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  
6240

20 JAN 1978

From: Commander, Atlantic Division, Naval Facilities Engineering Command  
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina  
Commanding General, Marine Corps Air Station, Cherry Point, North Carolina

Subj: Waste Paper Recovery Program; implementation of

Ref: (a) Marine Corps Bulletin 6240 of 20 Sep 1977

Encl: (1) Source Separation Implementation Report

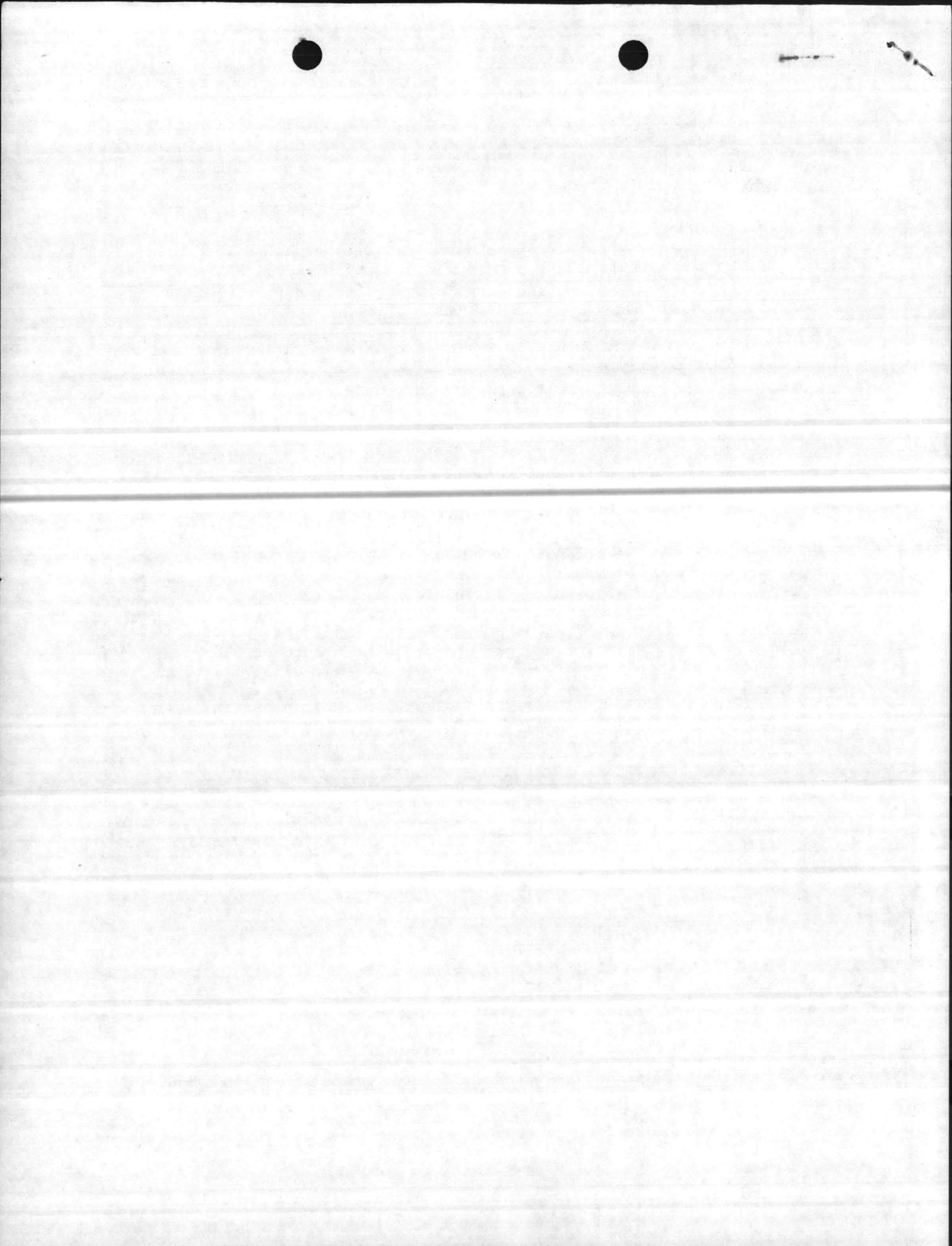
1. In accordance with reference (a), it is requested that enclosure (1) be prepared and forwarded to the following address:

Commander (Code 114)  
Atlantic Division  
Naval Facilities Engineering Command  
Norfolk, Virginia 23511

2. Any further questions regarding this matter should be directed to Mr. P. Cunanan, Code 114 of this Command, telephone Autovon 690-7313.

Copy to: (w/o encl.)  
CMC (Code LFF)

*S. A. / mace*  
CO  
en



MAIN/JIW/th  
4100  
11 Jan 1978

Base Maintenance Officer

Via: Public Works Officer  
Assistant Chief of Staff, Facilities

Solid Waste Disposal

Ref: (a) FoneCon btwn LCdr Smith, Public Works Dept, and Mr. J. I. Wooten,  
Base Maint Dept, on 5 Jan 78

Encl: (1) State of NC, Dept of Human Resources ltr dtd 6 Jan 78

1. As requested during discussion in reference (a), enclosure (1)  
is forwarded for your information and continued action.

2. It should be noted that Mr. Jim Scarborough, Environmental Protection  
Agency, Region IV, Atlanta, Georgia, requested that his office be  
advised of final disposition of the sludge from the fuel storage tank  
cleaning operation.

C. D. WOOD

*WJH*  
*WJE*

MEMORANDUM  
DATE: 1/10/78

State Attorney General

Public Works Director  
Assistant Chief of State Police

State Waste Director

(2) Forward from your Public Works Dept. and State Waste Director on 1/10/78

(1) State of NC Dept of Human Resources on 1/10/78

A request for your information and continued action is forwarded for your information and continued action.

It should be noted that the Environmental Protection Agency, Region IV, Atlanta, Georgia, requested that the office be advised of final disposition of the above. The final disposition classification is as follows:

C. D. WOOD



STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

*Division of Health Services*

P. O. Box 2091

Raleigh 27602

January 6, 1978

JAMES B. HUNT, JR.  
GOVERNOR

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR

ARAH T. MORROW, M.D., M.P.H.  
SECRETARY

1877  
One Hundred Years  
of Public Health  
in North Carolina  
1977

Commanding General  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

ATTENTION: Base Maintenance Officer

Dear Sir:

In reply to an inquiry of Mr. Julian Wooten on January 5, 1978, the regulations governing disposal of solid waste in North Carolina do not recognize landfilling of petroleum waste products, such as sludge from the cleaning of fuel storage tanks, as an acceptable means of disposal.

Approved incineration is probably the most feasible means of disposal available with today's technology.

Sincerely,

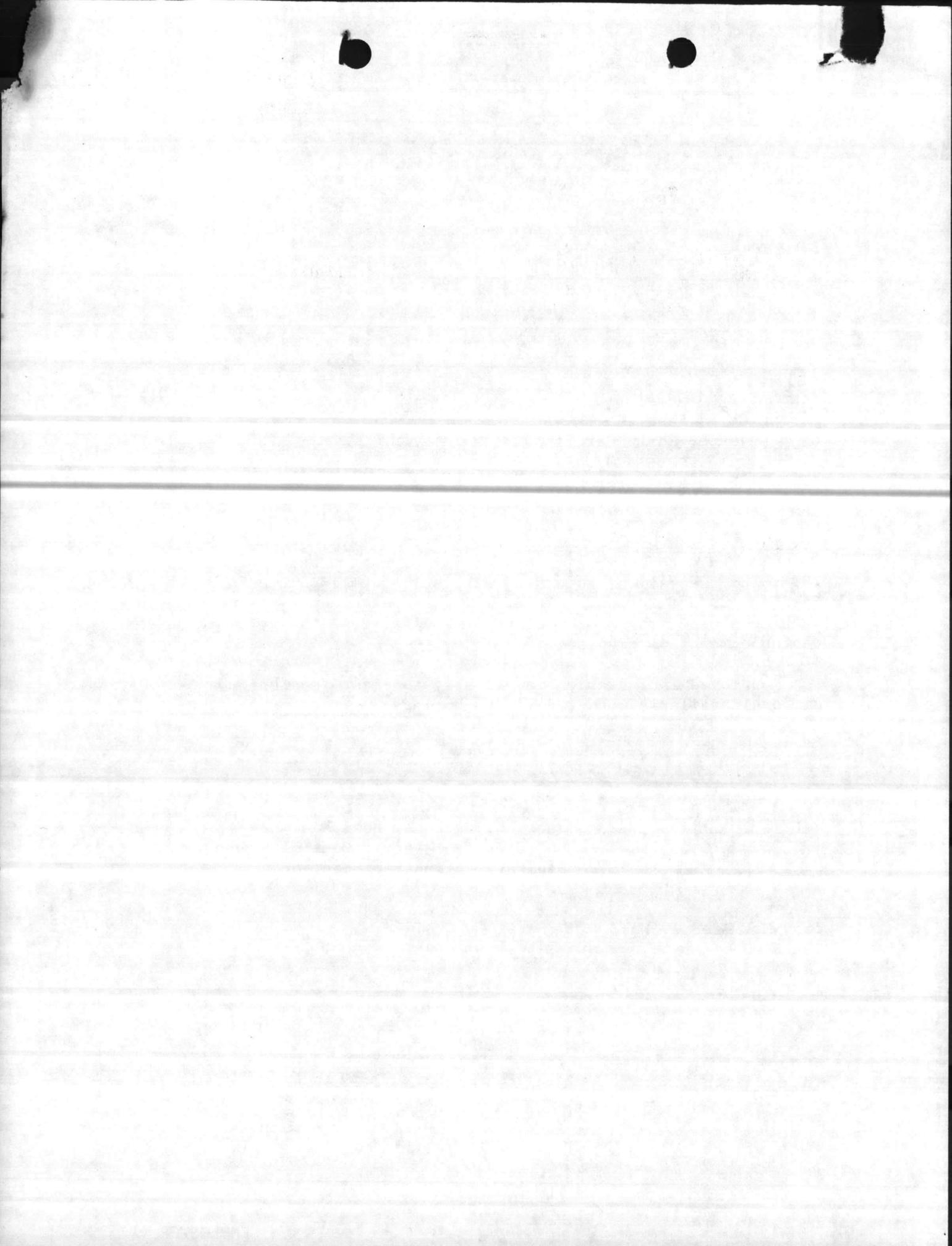
A handwritten signature in cursive script that reads "Jerry C. Perkins".

Jerry C. Perkins, Head  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

JCP/wss

cc: Mr. Fred J. Wood

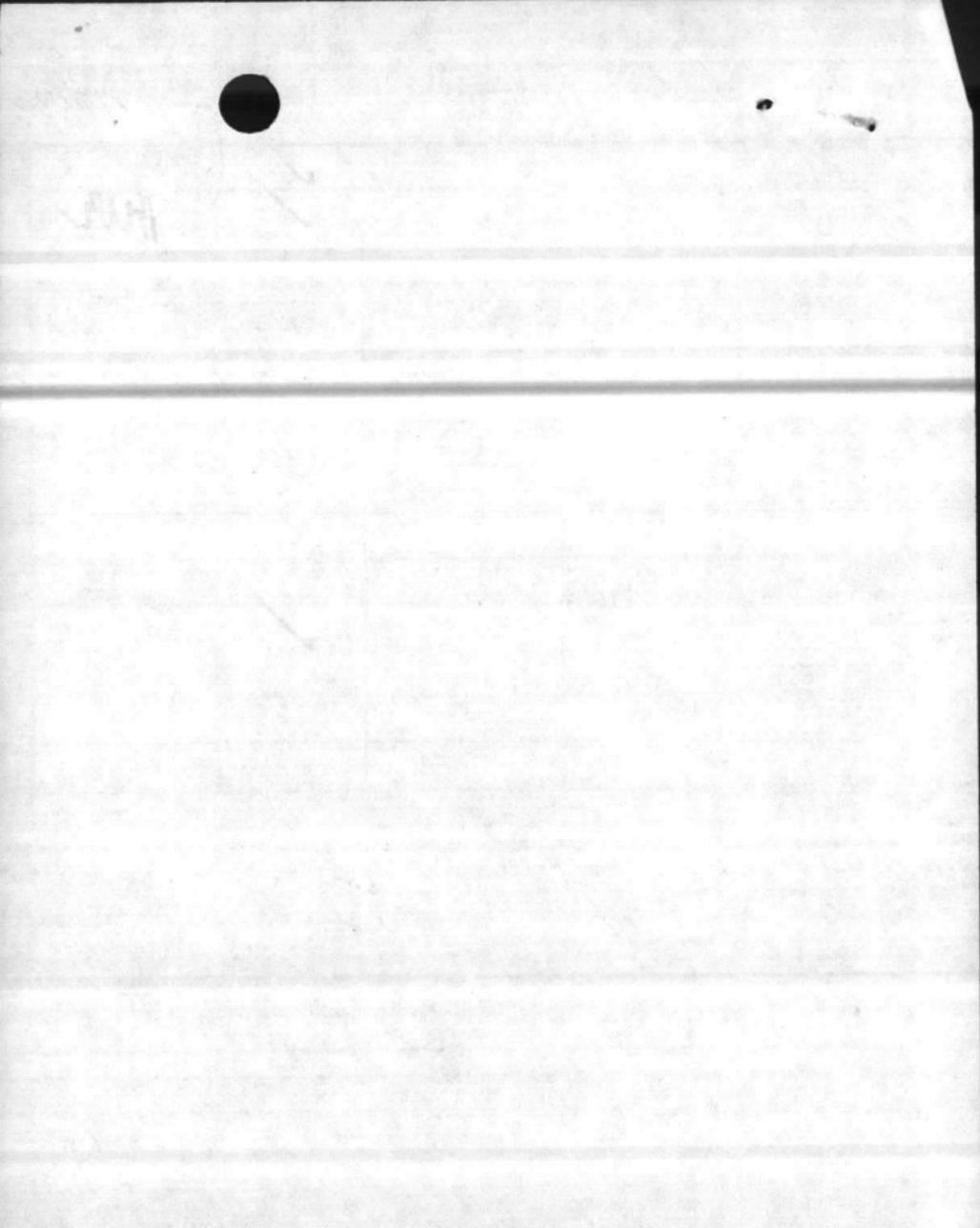
ENCLOSURE (1)



ACTION INFO INITIAL

|             | ACTION | INFO | INITIAL                   |
|-------------|--------|------|---------------------------|
| BMO         |        | ✓    | <i>[Signature]</i><br>BWR |
| ABMO        |        | ✓    |                           |
| MAINT NCO   |        |      |                           |
| SAFETY CHMN |        |      |                           |
| PROP        |        |      |                           |
| M&R         |        |      |                           |
| OPNS        |        |      |                           |
| ADMIN       |        |      |                           |
| TELE        |        |      |                           |
| UTIL        |        |      |                           |
| ENVIRON AFF |        | ✓    |                           |
| SECRETARY   |        |      |                           |
| F&A BRANCH  |        |      |                           |
|             |        |      |                           |

*File  
Solid Waste  
J d W  
10 Jan 78*



ENVIRONMENTAL HEALTH/SANITATION INSPECTION REPORT

5ND NRMC CLNC 6240/1 (11/76)

*File  
Sanitary landfill  
P. R. S.*

FROM: Commanding Officer, Naval Regional Medical Center, Camp Lejeune, N.C.

TO: **Base Maintenance Officer, MCB**

REF: (a) Base Order P6240.4

1. In accordance with reference (a) an environmental health/sanitation inspection of Sanitary Landfill  
MCB was conducted on 4 January 1978 by  
HMC Schwab. Findings and recommended corrective action are as follows.

AN \* INDICATES THAT THE FINDING HAS BEEN PREVIOUSLY REPORTED.

| FINDINGS                                       | RECOMMENDED CORRECTIVE ACTION |
|--|-------------------------------|
| No significant sanitation discrepancies noted. |                               |

2. The overall sanitary condition was found to be: **Satisfactory**

Copy to:  
A/CS Personnel Services  
Base Maintenance Services  
NREAD

APPROVED:  
*P. R. Sandoval*  
P. R. SANDOVAL, LTjg, MSC, USNR  
for Chief, Occupational and Preventive Medicine Service

and Maintenance Officer, USN

4 January 1978

100-200000

no significant sanitation discrepancies noted

Satisfactory

US Personnel Services  
Base Maintenance Services

*P. R. ...*  
P. R. ...  
USN

HEAD

ENVIRONMENTAL HEALTH/SANITATION INSPECTION REPORT

5ND NRMCLCNC 6240/1 (11/76)

*File  
Sanitary Landfill  
P. R. Sandoval*

FROM: Commanding Officer, Naval Regional Medical Center, Camp Lejeune, N.C.

TO: Base Maintenance Officer, MCB

REF: (a) Base Order P6240.4

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MCB was conducted on 4 January 1978 by

HMC Schnab

. Findings and recommended corrective action are as follows.

AN \* INDICATES THAT THE FINDING HAS BEEN PREVIOUSLY REPORTED.

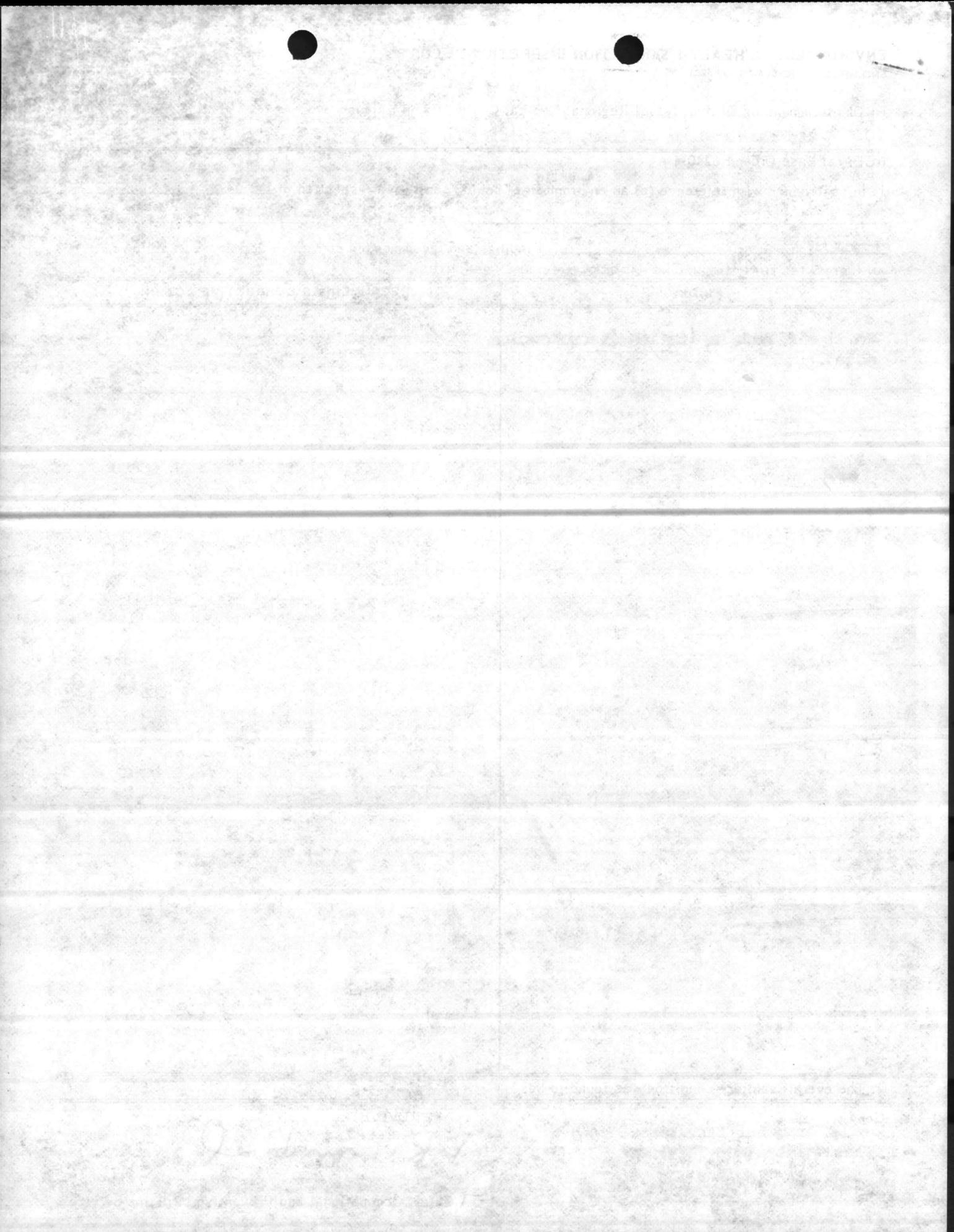
| FINDINGS                                       | RECOMMENDED CORRECTIVE ACTION |
|--|-------------------------------|
| No significant sanitation discrepancies noted. |                               |

2. The overall sanitary condition was found to be: Satisfactory

Copy to:  
MCB Personnel Services  
Base Maintenance Services  
NEAD

APPROVED:

*P. R. Sandoval*  
P. R. SANDOVAL, LTJg, MSC, USN  
for Chief, Occupational and Preventive Medicine Service





STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

*Division of Health Services*

P. O. Box 2091

Raleigh 27602

January 6, 1978

JAMES B. HUNT, JR.  
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.  
SECRETARY

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR

1877  
One Hundred Years  
of Public Health  
in North Carolina  
1977

Commanding General  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

ATTENTION: Base Maintenance Officer

Dear Sir:

In reply to an inquiry of Mr. Julian Wooten on January 5, 1978, the regulations governing disposal of solid waste in North Carolina do not recognize landfilling of petroleum waste products, such as sludge from the cleaning of fuel storage tanks, as an acceptable means of disposal.

Approved incineration is probably the most feasible means of disposal available with today's technology.

Sincerely,

A handwritten signature in cursive script that reads "Jerry C. Perkins".

Jerry C. Perkins, Head  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

JCP/wss

cc: Mr. Fred J. Wood

STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Care

Division of Health Care  
100 North Salisbury Street  
Raleigh, North Carolina 27601

Dear Mr. [Name]:

I am writing to you regarding the information provided to me by [Name] on [Date]. The information indicates that you are currently [Status].

I have reviewed the information and find it to be [Status]. I am sorry that I cannot provide you with more information at this time.

If you have any questions, please contact me at [Phone Number].

Sincerely,  
[Signature]

STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
P. O. BOX 2091  
RALEIGH, NORTH CAROLINA 27602

1877  
One Hundred Years  
of Public Health  
in North Carolina  
1977



Commanding General  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

ATTENTION: Base Maintenance Officer



ACTION INFO INITIAL

| BMO         |  | ✓ | <i>[Handwritten Signature]</i> |
|-------------|--|---|--------------------------------|
| ABMO        |  | ✓ | <i>[Handwritten Signature]</i> |
| MAINT NCO   |  |   |                                |
| SAFETY CHMN |  |   |                                |
| PROP        |  |   |                                |
| M&R         |  |   |                                |
| OPNS        |  |   |                                |
| ADMIN       |  |   |                                |
| TELE        |  |   |                                |
| UTIL        |  |   |                                |
| ENVIRON AFF |  | ✓ |                                |
| SECRETARY   |  |   |                                |
| F&A BRANCH  |  |   |                                |
|             |  |   |                                |



100  
100

UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

PSVC:NJK:gka  
6000  
9 Jan 1978

From: Assistant Chief of Staff, Personnel Services  
To: Officer in Charge, Command Club Management System

Subj: Establishment of Aluminum Can Recovery Program

Encl: (1) AC/S, Fac memo FAC:BKBank P-6240/6 of 6 Jan 1978

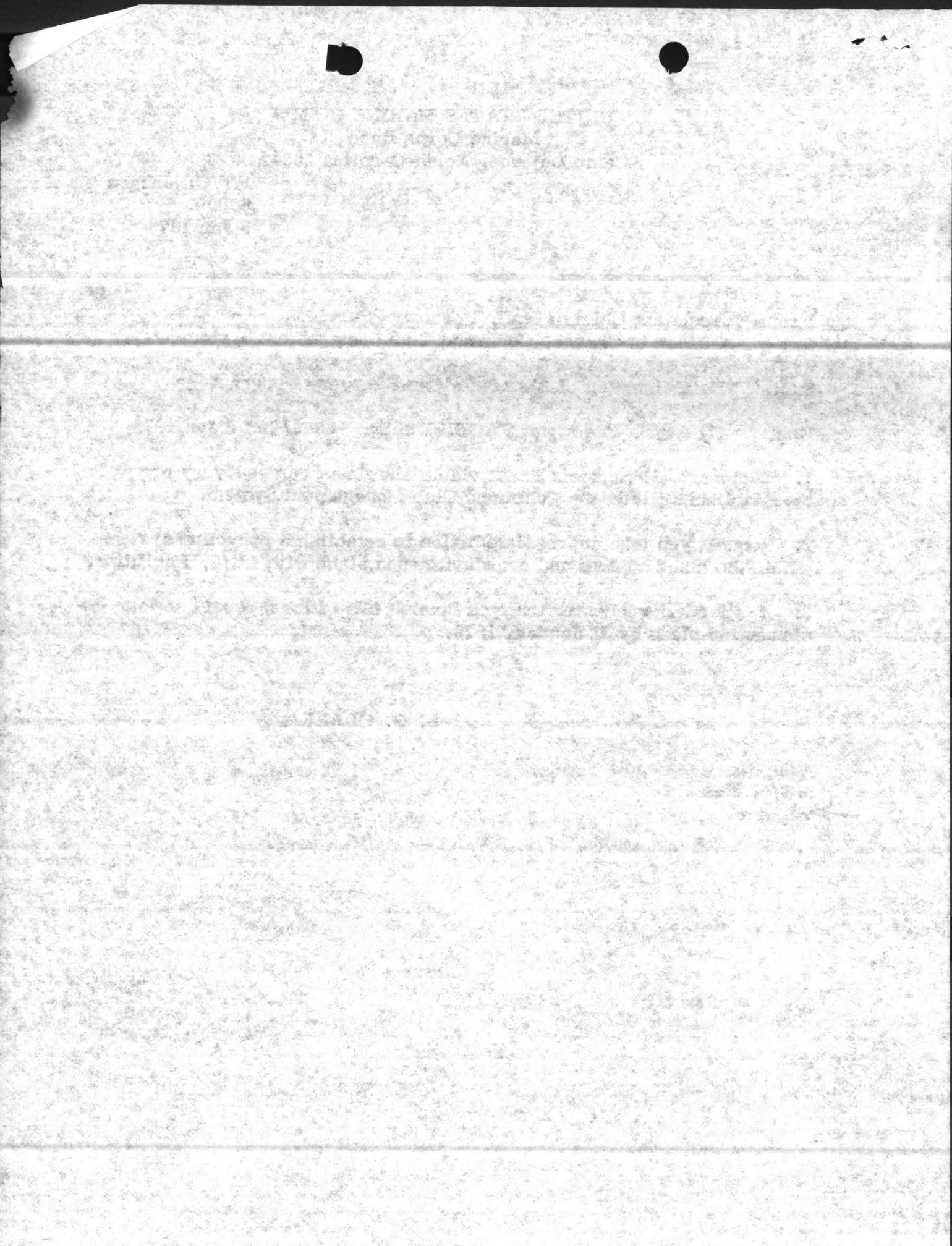
1. Enclosure (1) requests that a viable aluminum can recovery program be established within the Command Club Management System.
2. Request you take appropriate action to establish a recycling system within the clubs system and coordinate such plans with AC/S, Facilities.
3. It is further requested that you furnish this office a report of your implementing plans by 31 January 1978.

A. B. CLARK

Copy to: (less encl)

AC/S, Fac

→ BMaintO



ACTION INFO INITIAL

|             |  |   |                              |
|-------------|--|---|------------------------------|
| BMO         |  | ✓ | <i>[Handwritten Initial]</i> |
| ABMO        |  | ✓ | <i>BE</i>                    |
| MAINT NCO   |  |   |                              |
| SAFETY CHMN |  |   |                              |
| PROP        |  |   |                              |
| M&R         |  |   |                              |
| OPNS        |  |   |                              |
| ADMIN       |  | ✓ | <i>S</i>                     |
| TELE        |  |   |                              |
| UTIL        |  |   |                              |
| ENVIRON AFF |  | ✓ | <i>[Handwritten Initial]</i> |
| SECRETARY   |  |   |                              |
| F&A BRANCH  |  |   |                              |
|             |  |   |                              |



UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

FAC:BKB:mkc  
P-6240/6  
6 Jan 1978

MEMORANDUM

From: Assistant Chief of Staff, Facilities  
To: Assistant Chief of Staff, Personnel Services  
Subj: Establishment of Aluminum Can Recovery Program  
Ref: (a) MCBul 6420 of 14 Mar 1977

1. Reference (a) directs efforts in establishing resource recovery measures in conjunction with the nationwide program. Currently, Marine Corps Base is recovering recyclable newspaper and corrugated cardboard and some high-grade office paper.
2. In order to expand the scope of the Base resource recovery program, it is requested that the Assistant Chief of Staff, Personnel Services consider a plan to initiate a program to:
  - a. Recover aluminum cans generated through the Command Club Management System.
  - b. Process these cans into a manageable, salable form.
  - c. Sell the cans through the best market available.
  - d. Maintain records of amounts of recovered material and sales for future reporting requirements.
3. Profits derived from sales may be used within the Command Club Management System.
4. This office will assist during the planning and initiation of this program, to include negotiations with an appropriate salvage company, and will make all necessary reports to higher headquarters.

J. KOVACH

Copy to:  
C/S  
→ BMaintO



BASE MAINTENANCE DEPARTMENT  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/JIW/th  
4100  
4 Jan 1978

From: Base Maintenance Officer  
To: Public Works Officer  
Via: Assistant Chief of Staff, Facilities

Subj: Borrow site behind new housing in Berkeley Manor

Ref: (a) BMO ltr MAIN/WAN/th 11000 of 15 Apr 77

1. Reference (a) contains guidelines for use and reclamation of borrow pits. During a recent inspection by Natural Resources and Environmental Affairs Division personnel, it was discovered that the topsoil had not been spread at the subject site nor had the area been seeded.

2. It is requested that action be initiated to accomplish this work before final inspection of the area.

C. D. WOOD

*CDW*  
*ME*

CONFIDENTIAL  
U.S. GOVERNMENT  
OFFICE OF THE ATTORNEY GENERAL

MEMORANDUM FOR THE ATTORNEY GENERAL  
DATE: [illegible]  
SUBJECT: [illegible]

1. [illegible text]

2. [illegible text]

3. [illegible text]

4. [illegible text]

5. [illegible text]

6. [illegible text]

7. [illegible text]

8. [illegible text]

9. [illegible text]

10. [illegible text]

11. [illegible text]

12. [illegible text]

13. [illegible text]

14. [illegible text]