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STATE OF NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
Division of Health Services

JAMES B. HUNT, JR.
GOVERNOR

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

H. TILSON, M.D.
DIRECTOR

P. O. Box 2091

Raleigh 27602

August 15, 1980

Commander
XVIII Airborne Corps & Ft. Bragg
Attn: AFZA-FE-EE
Ft. Bragg, NC 28307

Dear Sir:

The revised plans for the landfill at Ft. Bragg have been reviewed. There is one item that was not completely addressed in the letter dated April 18, 1980, from this office.

The information in item #(4) of Section .0110 was not submitted. It is suggested that two (2) cross-sections be submitted; one north-south and one east-west, showing existing elevations, final elevations, depth to water and excavation limits.

Also, on August 14, 1980, an on-site inspection of the landfill was made. A determination was made that additional erosion control measures were needed. They are:

1. Rip-rap or other means of energy dissipation at the ends of the slope drains.
2. A sediment basin at the lower end of the landfill to control erosion from the landfill. (See attached)

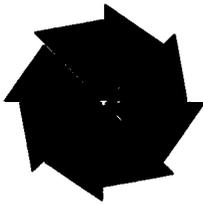
Please submit three (3) complete copies of the plans.

If you have any questions, please call 733-2178.

Respectfully,

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

JGL:ns
Enclosure
cc: Mr. Andrew Robinson, Jr.



North Carolina Department of Natural Resources & Community Development

James B. Hunt, Jr., Governor

Howard N. Lee, Secretary

July 22, 1980



Mr. Gordon Layton
Solid & Hazardous Waste Branch
Dept. of Human Resources
P. O. Box 2091
Raleigh, North Carolina 27602

RE: Soil Erosion & Sediment Control
Plan - Sanitary Landfill
Fort Bragg, North Carolina

Dear Gordon:

The review of the above referenced erosion control plan has been completed. Please find listed below our comments and recommendations for the site:

1. Rip-rap or other means of energy dissipation should be provided at the outlets of the 30-inch storm drain pipes.
2. There was no mention as to how the water is to be removed from the trenches, while they are being filled. If a series of ditches is to be used, appropriate erosion control measures will need to be installed to prevent off-site sedimentation.

We appreciate the opportunity to review the plans and if there are any questions concerning our comments and recommendations, please feel free to call.

We look forward to working with Andrew Robinson in periodically inspecting the site for compliance with the Sedimentation Pollution Control Act of 1973.

With best regards,

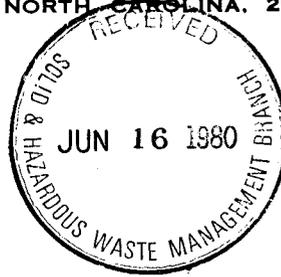
Joseph E. Glass
Regional Engineer
Land Quality Section

JEG/fbc

cc: Andrew Robinson



DEPARTMENT OF THE ARMY
HEADQUARTERS XVII. AIRBORNE CORPS AND FORT BRAGG
FORT BRAGG, NORTH CAROLINA, 28307



13 JUN 1980

AFZA-FE-EE

Mr. J. Gordon Layton
Solid and Hazardous Waste Management Branch
Division of Health Services
Department of Human Resources
PO Box 2091
Raleigh, North Carolina 27602

Dear Mr. Layton:

In response to your letter of 18 April 1980 (Incl 1), additional information requested in support of permit application for operation of sanitary landfill is provided herein.

Soil Borings, reference Section .0109 (2a) have been located on the original contour map.

One copy of the contour map, reference Section .0110 (4), showing the finished contours is attached as Incl 2.

Reference Section .0110 (7)(9), a contract for applying lime to the finished portion of the landfill will be awarded during the week of 8-14 June 1980. Weather permitting, the lime will be applied during the week of 15-21 June 1980 with fertilization and seeding following immediately. Rates of application will be two tons of lime per acre, 400 pounds of 5-10-30 fertilizer per acre and 45 pounds of Pensacola Bahia grass per acre.

Erosion control plan for the finished portion of the landfill, reference Section .0110 (8)(11), consists of the construction of berms across the slopes and asphalt swales to collect the runoff from the berms and carry it to 30-inch CMP which have been installed at three locations to carry the runoff water from the landfill surface to a controlled outlet at the toe of slope and establishing a vegetative cover as soon as possible. Erosion control work, with the exception of vegetative covering, has been completed and is shown on the contour map.

AFZA-FE-EE

Mr. J. Gordon Layton

North Carolina Grid Coordinates description, reference Section .0110 (12), has been added as Incl 3.

Perched water has not been a problem at the landfill. If such a problem develops, it will be considered appropriately.

Correction has been made to paragraph #7, Section VI .0116 Operational Requirements.

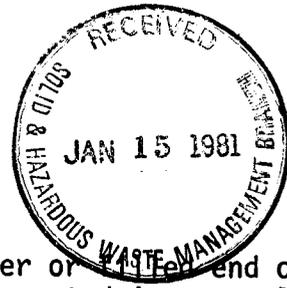
If any additional information is required, please contact Mr. J. B. Parker at (919) 396-8207.

Sincerely,



CARROLL BEARD
Director of Facilities Engineering

3 Incl
As Stated



.0016 OPERATIONAL REQUIREMENTS.

1. Solid waste is deposited into trenches from the upper or lower end of the trench. The waste is pushed into the trench and compacted into a cell block with the landfill compactor. The cell is completely covered at the end of each day with at least 6 inches of compacted earth.
2. Finished surfaces are continuously maintained to prevent erosion and to control surface runoff.
3. The landfill is attended by engineering equipment operators at all times it is open for use. The landfill is open only to Fort Bragg personnel engaged in refuse collection and disposal, Fort Bragg shop personnel, contractors engaged in refuse collection and disposal on Fort Bragg, troop units, Pope Air Force Base, construction contractors, and PX concessions and vendors. Operational hours are Monday through Friday, 0730-1600, and Saturday, 0730-1230.
4. The access road to the site is a double surface bituminous treated road. Roads within the site are compacted sand-clay and are maintained in excellent condition.
5. CO₂ fire extinguishers are on site to assist in combating fires. The landfill compactor is equipped with mobile radio to provide continuous communications with other Facilities Engineer activities and is used to summon assistance from Fort Bragg Fire Department as necessary. Open fires are prohibited.
6. Spoiled foods, animal carcasses, and/or other animal wastes are buried and covered separately from the routine solid wastes.
7. No liquid or hazardous waste is permitted without written permission from the Division of Health Services.
8. Vector control measures are applied as required.
9. Temporary fencing is utilized as necessary to prevent excessive littering.
10. Information signs are constructed in appropriate locations to convey information necessary to the users of the landfill.



STATE OF NORTH CAROLINA

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

P. O. Box 2091

Raleigh 27602

April 18, 1980

Commander
XVIII Airborne Corps & Ft. Bragg
Attn: AFZA-FE-EE
Fort Bragg, NC 28307

Dear Sir:

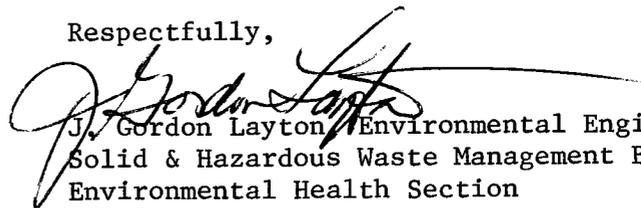
The plans for the landfill at Fort Bragg have been reviewed and the following comments are to advise you of deficiencies in the plans. According to the N. C. "Solid Waste Management Rules", the following items need to be addressed:

1. Section .0109 (2a) Location of borings.
2. Section .0110 (4) Cross-sections or contour maps;
(7)(9) Seeding, fertilizing, and liming schedule;
(8)(11) Erosion control plan - sediment basin design and other control measures such as slope drains should be shown on plans;
(12) (Description by N. C. Grid Coordinates).
3. The problem of perched water should be considered and the method of handling shown on the plans.
4. In Section VI .0116 Operational Requirements, #7 should be changed to "No liquid or hazardous waste is permitted without written permission from the Division of Health Services."
5. Monitoring wells will be required at a later date.

These revisions should be completed and returned to this office by June 1, 1980.

If you have any questions, please advise.

Respectfully,


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

JGL:ns
Enclosure
cc: Mr. Andrew Robinson

Incl 1