

#### DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VIRGINIA 23511

TELEPHONE NO.

444-9670
IN REPLY REFER TO:

09A21B3:MLB:car 11010/MARCORB CAMP LEJEUNE 29 October 1982

From: Commander, Atlantic Division, Naval Facilities Engineering Command

To: Commander, Naval Facilities Engineering Command (Code 05)

Subj: FY 1984 Project Engineering Documentation (PED) for Project P-780.

Sewage System, Building 1700, Marine Corps Base, Camp Lejeune, North Carolina

Ref: (a) NAVFACENGCOM 1tr 0512A1/AGT of 4 Jun 1981

(b) NAVFACINST 11010.14M (c) NAVFACINST 11010.44D

Encl: (1) Subject PED (10 copies)

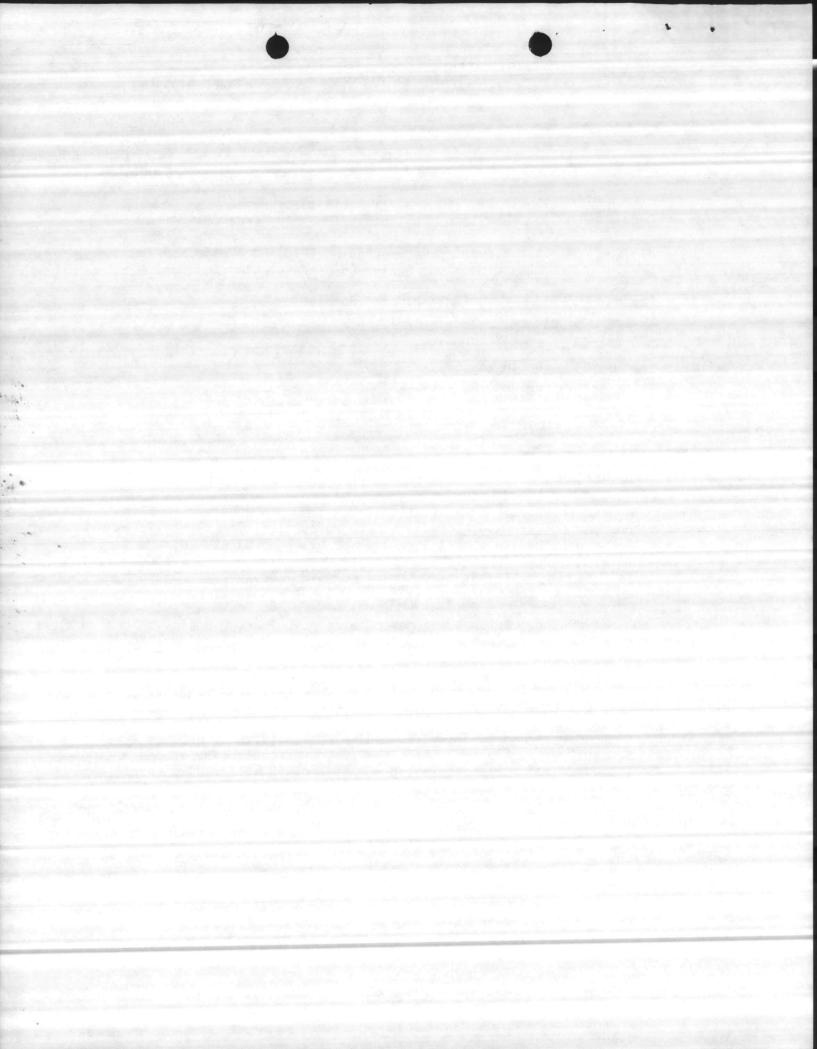
(2) Detailed Engineering Cost Estimate Sheets

(3) Witness Data Sketch (2 copies)

- 1. As requested by reference (a), enclosures (1), (2), and (3), prepared in accordance with reference (b), are submitted.
- 2. It is certified that: (a) the PED has been prepared in accordance with reference (b) and is based upon 35% design; (b) project scope and cost are the minimum required to satisfy the operational requirements and are supported by current SFPS documentation in accordance with reference (c); (c) utilities are adequate to support the additional load imposed by the project; (d) the facility design is generally acceptable to the Activity Commanding General, and satisfies the Activity's requirements; and (e) the DD Form 1391 has been reviewed by both the Activity and LANTNAVFACENGCOM.
- 3. The subject project cost has increased to comply with DOD policy to reduce the number of point source discharges in accordance with the National Pollutant Discharge Elimination System (NPDES) and State environmental requirements.
- 4. The discharge from the proposed coal pile run-off pretreatment plant has a flow limitation of 100 GPM (maximum), to be routed through the existing sanitary system. This hydraulic limitation is necessary to maintain a reasonable reserve capacity in the downstream sewer system and to prevent adverse effects at the receiving sewage treatment plant. Also the amount of coal being stored at the plant has increased and full containment of the run-off will require additional concrete pavement (storage pad surface).
- 5. By copy of this letter, the Commandant of the Marine Corps (LFF-1); and the Commanding General, Marine Corps Base, Camp Lejeune, North Carolina; are requested to provide any comments directly to NAVFACENGCOM (Attention Code 05) with a copy to LANTNAVFACENGCOM (attention Code 09A2). If no comments are submitted within 30 days, concurrence will be assumed.

By direction

Comment to Van Mushleum via FONERON 11-23-82 - Divert catch basin under ask sile to new collection system.



09A21B3:MLB:car 11010/MARCORB CAMP LEJEUNE

Copy to: (w/2 copies encl (1))
CMC (LFF-1)
MARCORB CAMP LEJEUNE



FOR OFFICIAL USE ONLY

31 AUGUST 1982

DEPARTMENT OF THE NAVY

PROJECT ENGINEERING DOCUMENTATION

# SEWERAGE SYSTEM

(P-780)

FY 1984 MCON

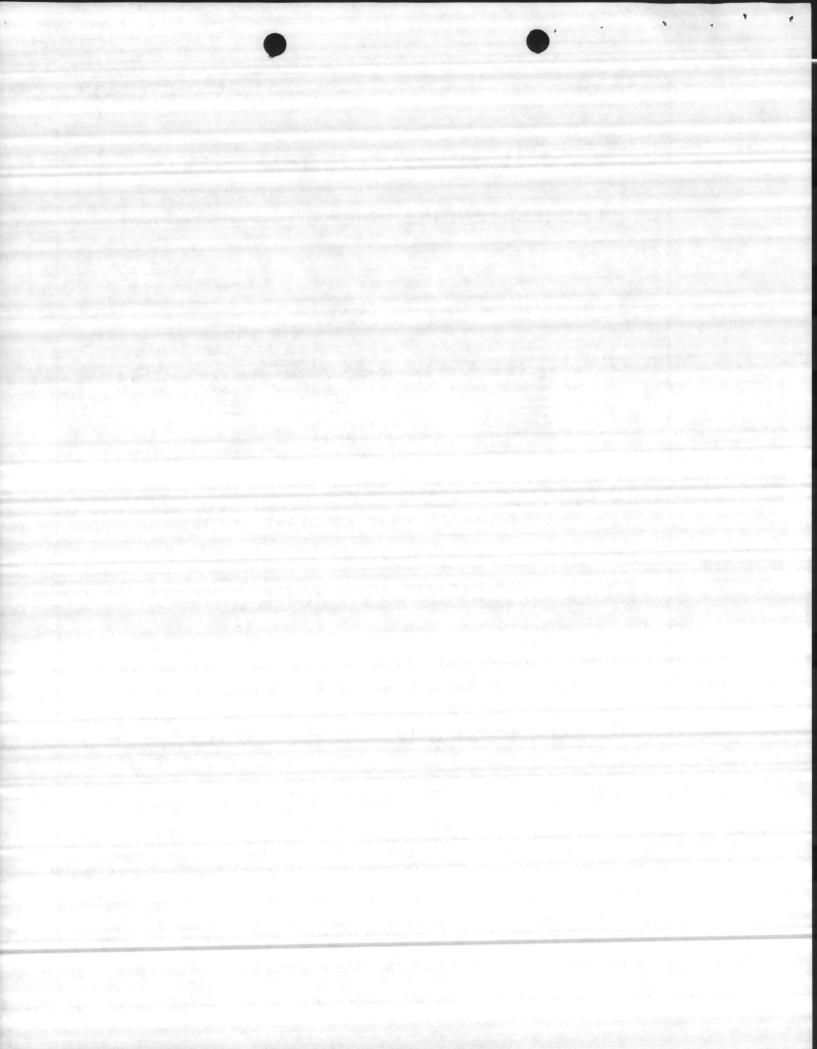
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

# ADMINISTERED BY

ATLANTIC DIVISION
NAVAL FACILITIES
ENGINEERING COMMAND
NORFOLK, VA. 23511

# PREPARED BY

HENRY VON OESEN & ASSOCIATES
CONSULTING ENGINEERS & PLANNERS
P.O. BOX 2087
WILMINGTON, N.C. 28401



| 1. COMPONENT NAVY  | FY 19MILITARY CONSTRUCTION PROJECT DATA  2. DATE 31 AUGUST 1982 |                               |                     |                | 1982                |                      |   |
|--|---|-------------------------------|---------------------|----------------|---------------------|----------------------|---|
| 3. INSTALLATION A<br>MARINE C<br>CAMP LEJ  | CORPS BA  |                               | NA                  | 4. PROJECT T   | AGE SYSTEM,         | 32 1100051 1         | .502  |
| 5. PROGRAM ELEM  | ENT 6.  | CATEGORY CODE                 | 7. PROJEC           | TNUMBER        | 8. PROJECT COS      | T (\$000)            |   |
| term material and the second s | 8   | 321-09                        | P-                  | 780            | \$560               |                      |   |
|  | 1 -62,72  |                               | OST ESTIMAT         |                | er var ja William I |                      |   |
| Escalation   | 13%   | Bid Oper<br>1 Apr:            | ning Dai<br>il 1984 | te U/M         | QUANTITY            | UNIT                 | COST<br>(\$000)                                       |
|  | ent & I<br>ameras   | Discharge Sys<br>& Monitoring |                     | LS<br>LS<br>LS |                     |                      | \$ 483.00<br>(499.00<br>(34.00)<br>\$ 483.00<br>48.00 |
| TOTAL CONTRACT COST SUPERVISION, INSPECTION & OVERHEAD (5.5%)  |   |                               |                     |                |                     | \$ 531.00<br>29.00   |   |
| TOTAL RE   | QUEST   |                               |                     |                |                     |                      | \$ 560.00   |
| TOTAL RE   | QUEST R   | OUNDED                        |                     | 10 To 10       |                     |                      | \$ 560.00   |
|  |   |                               |                     |                |                     | and the state of the | THE RESERVE   |

Extend coal storage hard stand and provide a containment wall and 15' wide concrete pad to encompass the existing coal pile. Construct containment system settling basin, pH adjustment tanks and control building. Provide TV stack emission monitoring system, erosion control, and associated work.

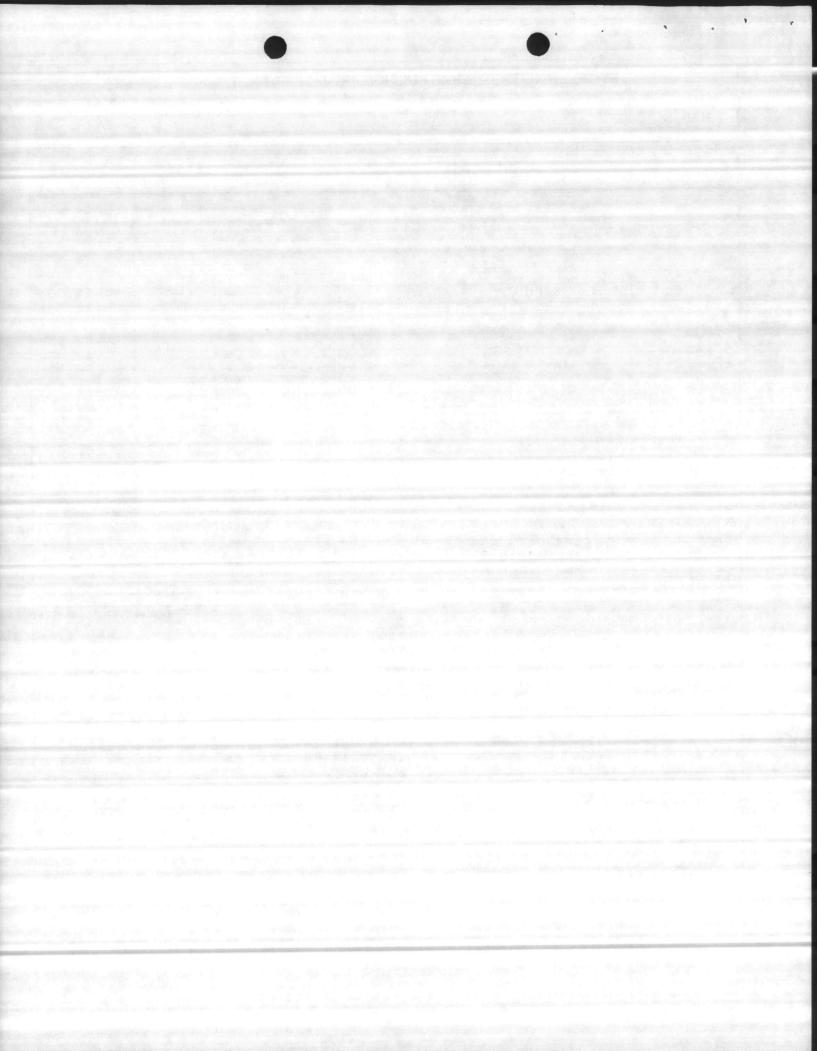
11. Requirement: N/A SF Adequate N/A SF Substandard N/A SF PROJECT: Provide pollution control facilities for coal pile storage area, stack emission TV monitors, and related work.

REQUIREMENT: The National Pollutant Discharge Elimination System (NPDES) for the Base requires compliance with the Clean Water Act (CWA) 33 USC 1251 ET SEQ. The coal pile at the Central Heating Plant is a source of suspended solids that is being dumped into surrounding storm sewers. With the recent addition of electrostatic precipitators to this plant, which will allow the burning of coal, a much larger volume of coal will be stored. This creates the potential for larger quantities of suspended solids to be dumped untreated into existing storm sewers. A TV monitoring system is required to insure compliance with air quality standards established by the Environmentl Protection Agency (EPA) and the State of North Carolina for generating plant facilities.

CURRENT SITUATION: Pollutants from the coal pile runoff are allowed to drain off untreated.

IMPACT IF NOT PROVIDED: Coal storage may not be allowed at the Central Heating Plant if the runoff facility is not provided, resulting in having to use oil, a scarce resource, at the Central Heating Plant instead of cheaper and more abundant coal.

10. DESCRIPTION OF PROPOSED CONSTRUCTION



| 1. COMPONENT    | FY 19 MILITARY CONSTRUCTION PROJECT DATA |                   |          |           |   |
|-----------------|--|-------------------|----------|-----------|---|
| NAVY            |  |                   | JOE BATA | 31 AUGUST | 1982  |
| 3. INSTALLATION | N AND LOCATION                           |                   |          |           | 7 57  |
| MARINE CO       | ORPS BASE, CAMP I                        | LEJEUNE, NORTH C. | AROLINA  |           |   |
| 4. PROJECT TITL |  |                   |          | CT NUMBER | Alexander de la faction de la |
| SEWERAGE        | SYSTEM                                   |                   | P-7      | 780       |   |

ENVIRONMENTAL IMPACT: The project Preliminary Environmental Assessment has been reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.

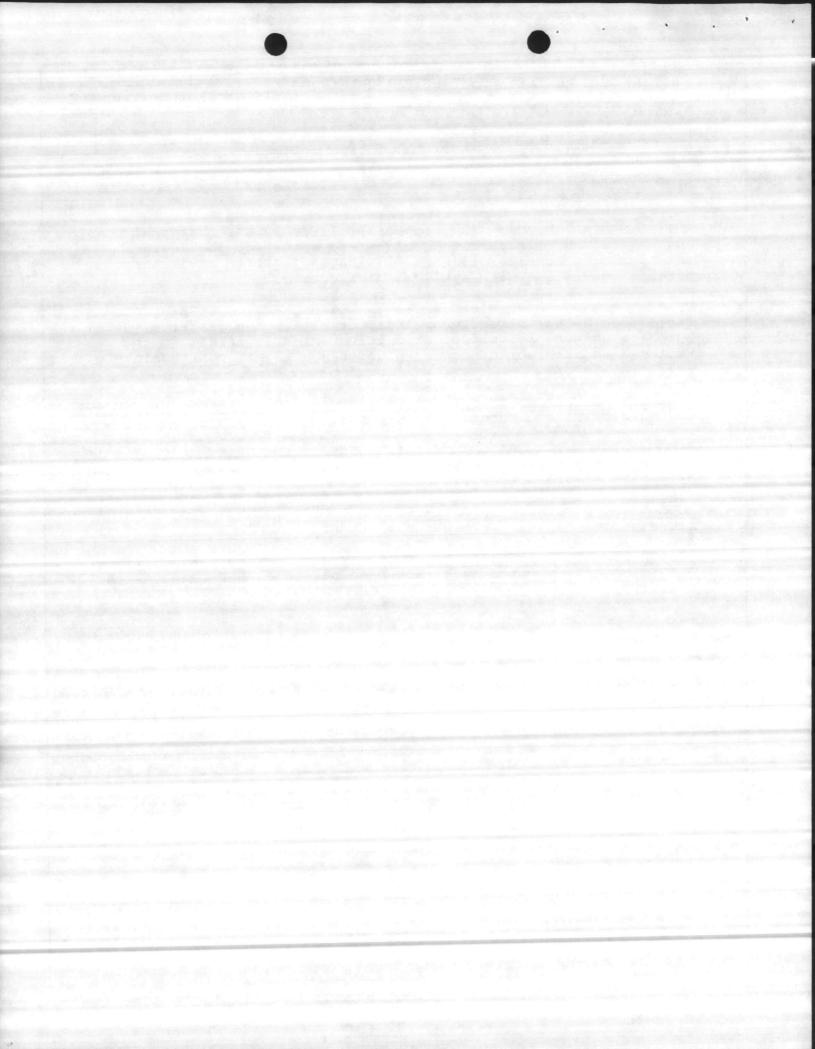
PRESERVATION OF HISTORICAL SITES AND STRUCTURES: The project facilities do not directly or indirectly affect a district, site, building, structure, object or setting which is listed in the National Register or otherwise possesses a significant quality of American History.

FALLOUT SHELTER CONSTRUCTION: Fallout shelter excluded -- Project not susceptible for shelter incorporation.

FLOOD HAZARDS EVALUATION: Requirements of Executive Order No. 11988 (Floodplain Management) and Executive Order No. 11990 (Protection of Wetlands) are not applicable.

POLLUTION, PREVENTION, ABATEMENT AND CONTROL: This project will not cause additional air or water pollution.

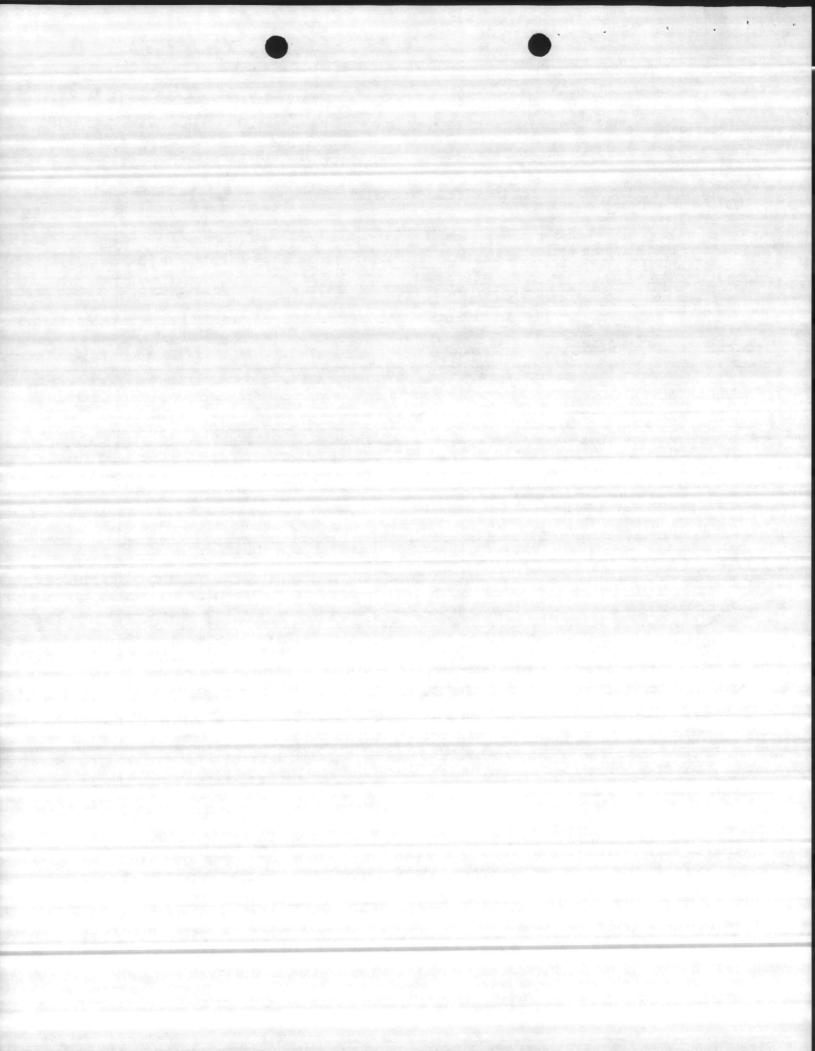
DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL: Provisions for physically handicapped personnel not required in this facility.





| Title: Sewerage System      | Costs Escalated to: 1 April 84   |                     |  |   |                      |  |
|-----------------------------|--|---------------------|--|---|----------------------|--|
| Location: Marine Corps      | Escal  |                     |  |   |                      |  |
| Prepared by: Henry von Oe   | sen & Assoc  | iates, Inc.         | _ Date: 31 Au  | igust 82 (  | Contingency          | 10%  |
|                             | \$/SF  | \$/SYS              | SYS QUAN   | TOTAL   | BUILDING             | BUILT-IN EQ  |
| Catchment and Discharge Sys | stem   | Fig. s. on of Subst | Augustan en h  |   |                      |  |
| Demolition                  |  |                     |  | 14,900  | 324.34               |  |
| Site Work                   |  |                     |  | 246,000   |                      |  |
| Concrete Detendion Basi     | ħ  |                     |  | 160,200   | 10.4                 |  |
| Monitoring & Nuetraili-     |  | British Sanger A.   |  |   |                      |  |
| zing Equipment              |  |                     |  | 22,000  |                      |  |
| Electrical                  |  |                     |  | 6,000   |                      |  |
| Subtotal                    |  |                     | Management of the same   | 449,100   | inse primine uncon-  |  |
|                             | di Tanan   |                     | The same of the sa | 143,100   | Record of the second |  |
| Stack Monitoring System     |  |                     |  | 34,200  |                      |  |
|                             | 3.00   |                     |  | 31,200  |                      | 1  |
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| Total Estimated Contract Cost: |   | \$483,300.00                           |  |
|--------------------------------|---|--|--|
|                                | Contingency (10%)<br>SIOH (5.5%)<br>Total Budget Cost | 48,000.00<br>29,000.00<br>\$560,300.00 |  |
|                                | Rounded   | \$560,000.00                           |  |



DESIGN CONCEPTS

Activity and Location: MARINE CORPS BASE, CAMP LEJEUNE, N. C.

Project Title: SEWERAGE SYSTEM (P-780)

Date: 31 AUGUST, 1982

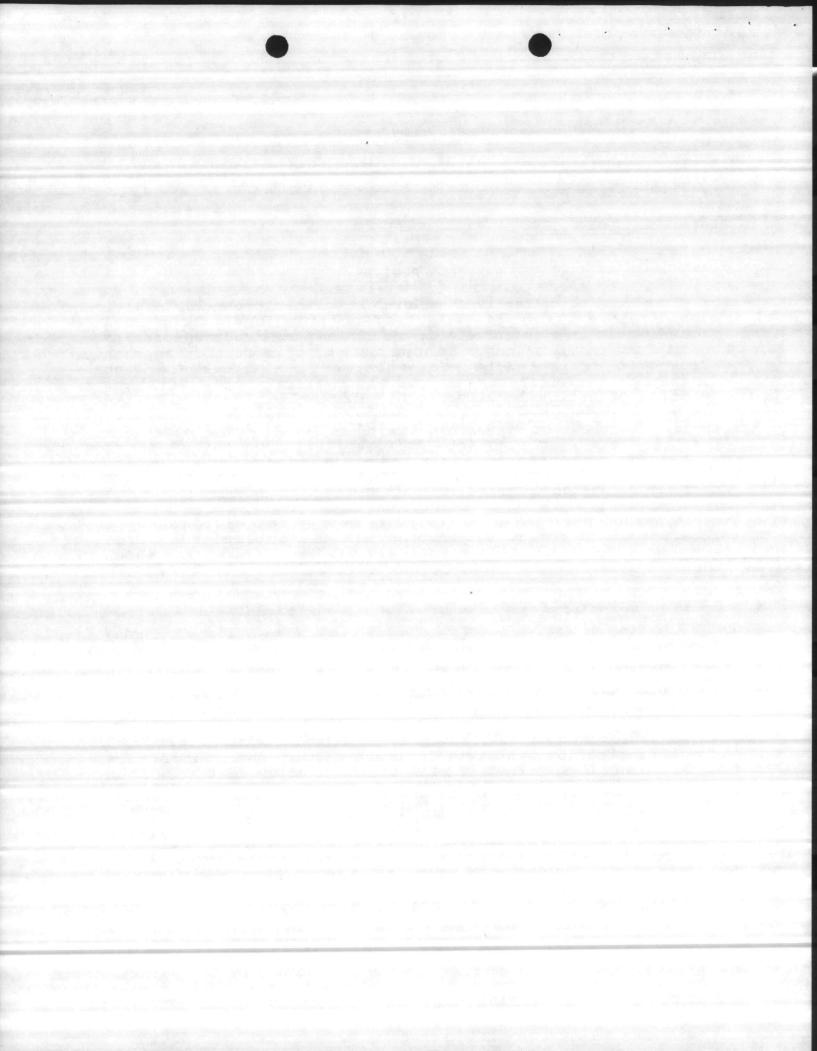
# USE OF DEFINITIVES AND PREVIOUS DESIGNS

There are no definitives applicable to this project. Collection, treatment and disposal of stormwater runoff from Coal Storage areas is a relatively new design and construction problem on military installations. In years past, this runoff has been allowed to drain to the stormwater system of the area and discharge in a similar manner as other stormwater. With the adoption of National Pollutant Discharge Elimination System (NPDES) requirements as outlined by the Environmental Protection Agency and the State of North Carolina, it has become necessary for the stormwater runoff to be segregated from the adjacent system and be monitored and treated if necessary, prior to discharge. This process will require a specific design for which very little design criteria is available.

A second part of this project is the installation of a television monitoring system for the air pollution control systems. This is also a relatively new requirement for which there is a limited amount of design criteria.

# SPECIAL DESIGN CHARACTERISTICS

- A. Stormwater Run-off from Coal Storage Area: There are many free and dissolved solids and separate metals in bituminous coal. The pollutant effect in coal pile runoff is primarily due to (1) acidity (2) suspended solids and (3) toxic trace metals and other dissolved chemicals.
  - 1. Acidity: Metal sulfides in coal oxidize and form sulfates which in turn combine with water forming weak acids. The collection system will direct all of the runoff to a monitoring pit which will allow ph adjustment to within allowable limits with a chemical neutralizer.
  - 2. Suspended Solids: The collection system will direct all of the runoff to a settling basin which will allow the suspended solids to settle and permit only the allowable range to discharge.
  - 3. Toxic Metals: Toxic metals and other pollutants in the runoff are treated separately by discharging the pretreated effluent to the sanitary sewer system.



### 4. Criteria:

Design Storm: 10 year design frequency
Time of Concentration = 2 hours
I @ 2 hours = 1.6 in/hr
C = 0.55 for pile area
Runoff Area = 3.2 acres
Particle Size = 40 to 80 microns (diameter)

- 5. Preliminary Sizes: From available information, a settling basin or pond is necessary to accommodate the water flow and the settling rate anticipated. A concrete retention area, 20' x 120' x 10' would accommodate these requirements as well as allow space for a monitoring pit which would also house two pumps to discharge the water to the nearest sanitary sewer. This pit would require cleaning of accumulated sediments (mostly coal dust) at four year intervals. Cleaning would be by mechanical bucket, or dragline.
- 6. The facility is presently storing coal about 45 feet beyond the limits of the existing slab. The extension of the coal storage hard stand is necessary to provide positive containment of acidic leachant that could pollute ground water.
- B. <u>Television Monitoring System</u>: There is no special design considerations for this system.

#### ENERGY CONSERVATION AND SOLAR ENERGY

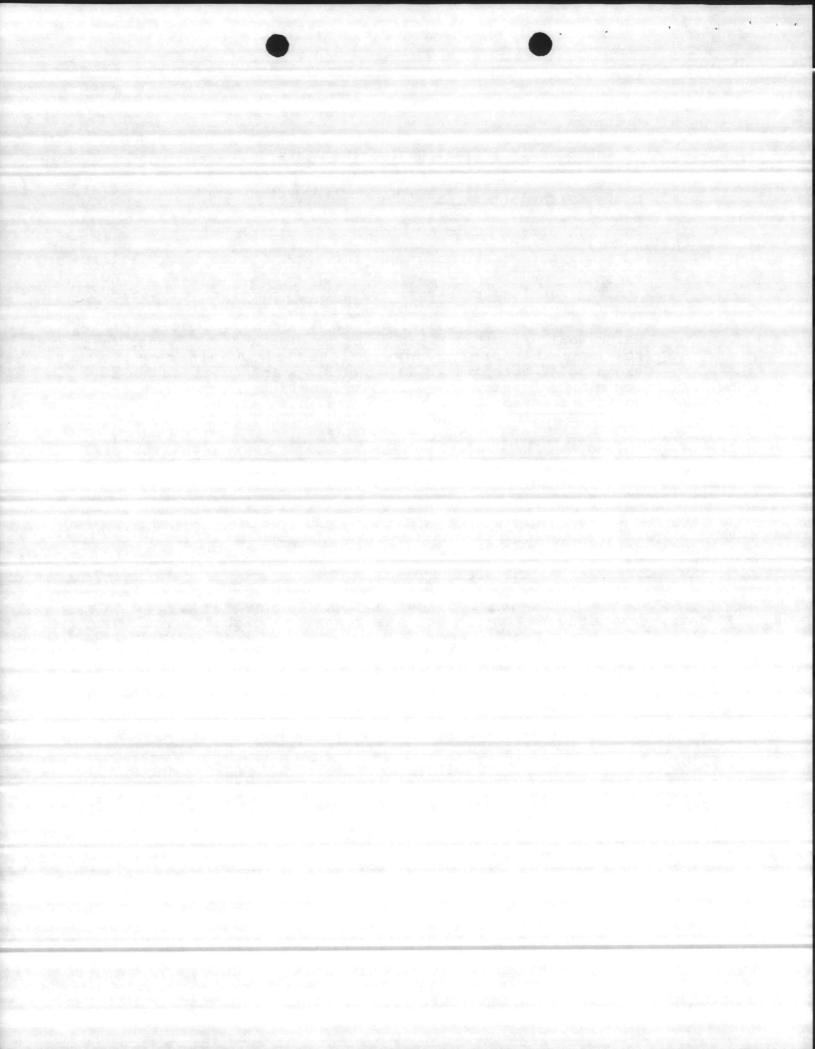
Solar energy is not applicable for use on this project. Energy-consuming equipment such as pumps and lighting will be selected for maximum efficiency. An automatic control system will monitor and record remote equipment and control of the equipment will minimize manual inspection and surveillance.

#### POLLUTION ABATEMENT ASPECTS OF DESIGN

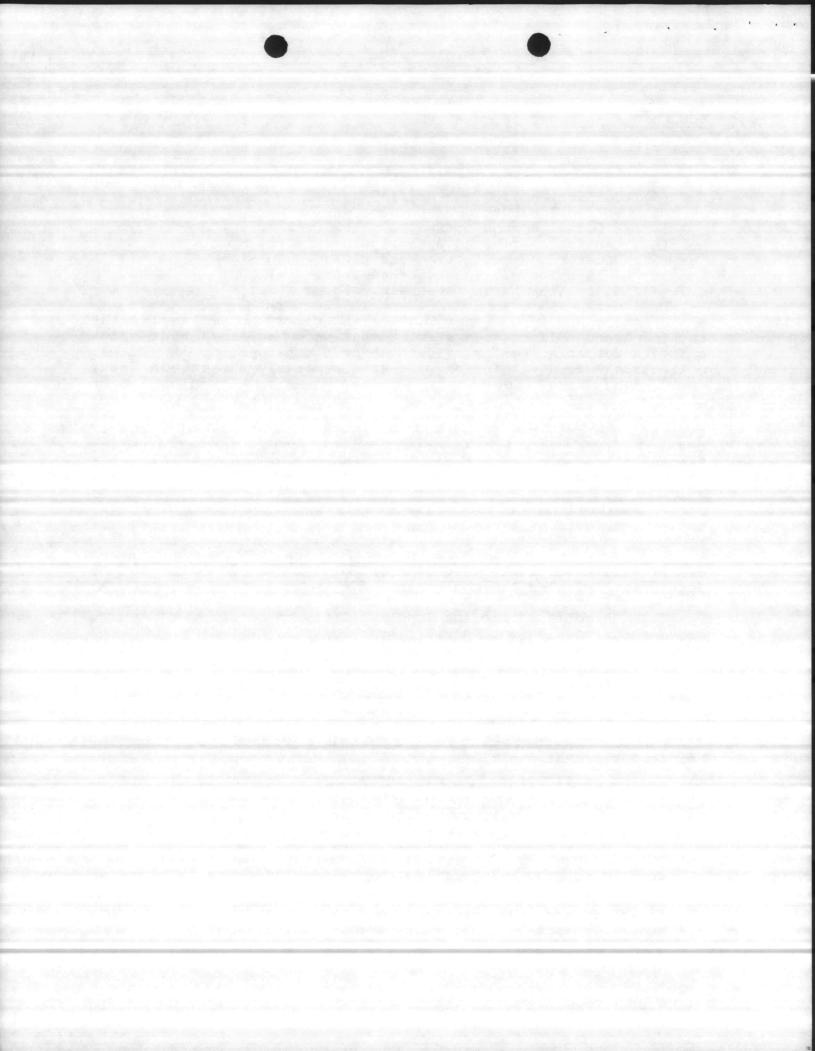
This design is intended to monitor and treat the effluent as necessary to allow discharge to the sanitary sewer system. (See Section 1 and 2 above). It has been noted that effluent from the coal pile runoff treatment facility is to be discharged to the sanitary sewer system. No permit will be required with this type of discharge.

#### SITE APPROVAL

Site work approval has been granted per Commanding General letter PWO:408:BJD:bjd P-780 of 28 July 1981.

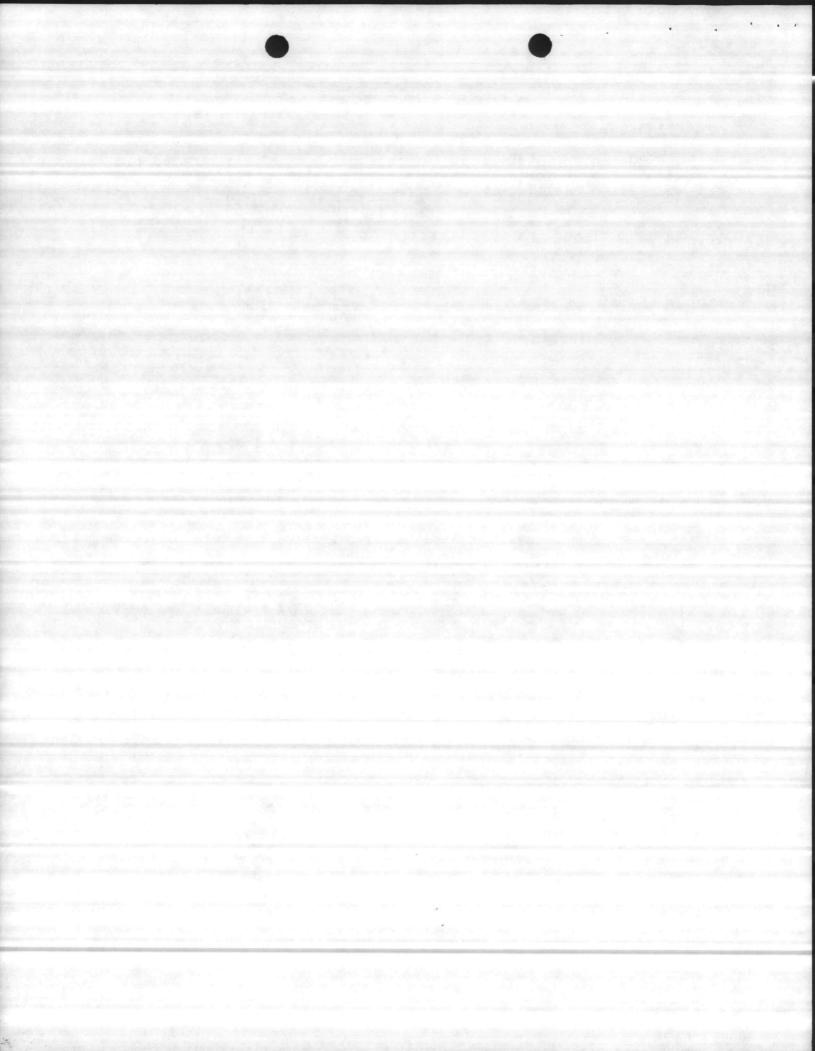


ECONOMIC ANALYSIS Coal Pile Sewerage System: Several alternatives for collection of runoff have been considered. Collection within retaining walls. (2) Collection outside retaining walls. (3) Marginal aprons or swales within walls. (4) Marginal aprons on swales outside walls. (5) Underground collection and piping. (6) Collection pit (underground structure) Collection basin (open with sloped sides). (7) Function and efficiency out-weigh economy in selecting the retaining and collecting system. Experience has shown that a low concrete retaining wall provides the best retainer for coal piles; collection swales within the pile area adversely effect equipment operation; underground piping sometimes has sedimentation clogging; collecting swales outside retaining walls pose less objection to function and are more efficient. Therefore, a standard concrete retaining wall with an outside paved apron or channel has been selected because of function and efficiency reasons although the cost of this with other considerations is about the same. The following criteria was considered in selection of the collection facility type: Detention Time: 2 to 2-1/2 hours. This requirement clearly indicates that the cross-sectional area of a pit must be approximately the same as a basin. (2) There is sufficient land available to obtain the required cross-section using more surface area and shallower depths. The shallow basin can be built with sloped sides (trapezoidal section) at less first cost than a pit with vertical sides. The sloped sides of the basin will allow easier cleaning of sediments with mechanical equipment (dragline) than the vertical sides of a pit. An open top basin shall allow easier monitoring of sedimentation rates. The shallow section will allow channelled flow even if the sedimentation rate varies substantially. The basin system has been selected. SPECIAL ENGINEERING SERVICES Field surveys have been made to determine existing topographic features. Two subsurface investigations will be required.



## CONTINGENCY

A contingency amount of 10% is applied to the estimated project cost to account for existing underground obstructions which can not be qualified until actual construction.



# COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting) ND LANTDIV 4-11010/6 (9/73)

DATE 31 AUGUST 82

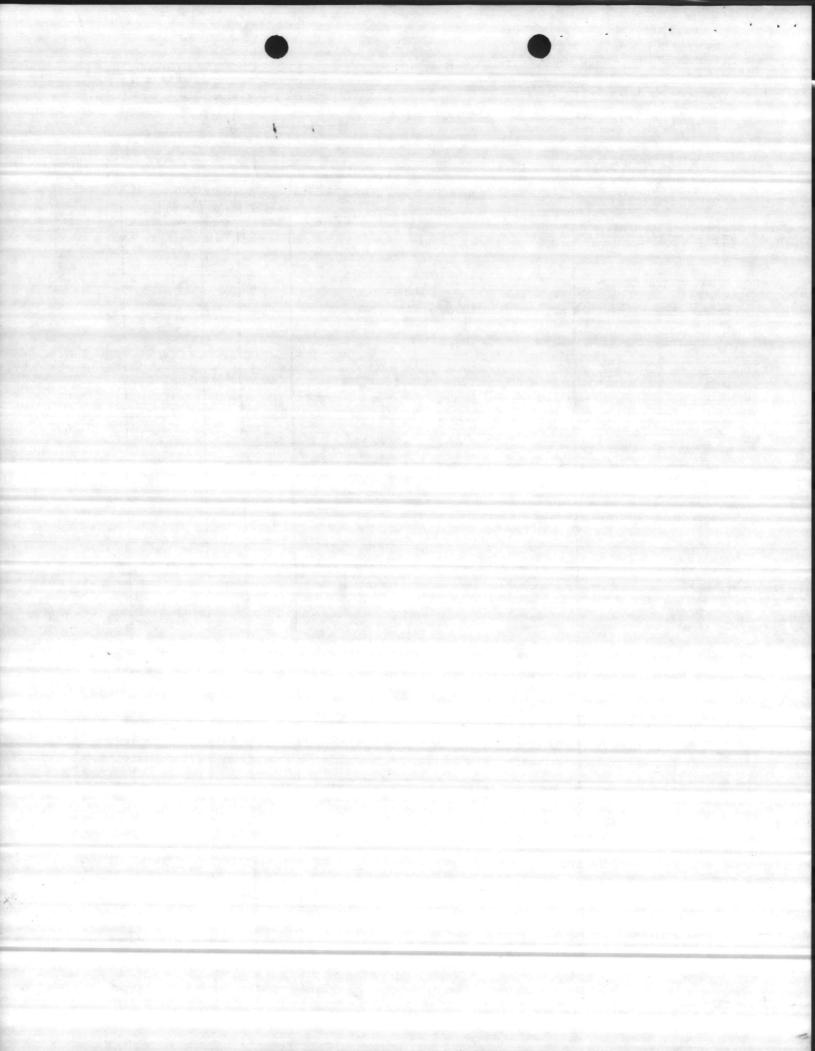
. ACTIVITY (Name and Location)

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

2. PROJECT TITLE

P. NO.

|    | COG. SYMBOL AND  |                            |                |             |               |      |
|----|--|----------------------------|----------------|-------------|---------------|------|
|    | FED. STOCK NO. OR<br>OTHER SOURCE  | ITEM/EQUIPMENT DESCRIPTION | QUAN-<br>TITY  | OF<br>ISSUE | UNIT          | TOTA |
| l. | BUILT-IN EQUIPMENT TO BE MCON FUNDED   | N/A                        |                |             |               |      |
| 2. | EXPENSE ITEMS  | N/A                        |                |             |               |      |
| 3. | INVESTMENT ITEMS   | N/A                        |                |             |               |      |
| ١. | APA EQUIPMENT  | N/A                        |                |             |               |      |
| 5. | TRAINING EQUIPMENT   | N/A                        |                |             |               |      |
| 5. | OTHER EXPENSES   | N/A ·                      |                |             |               |      |
| 7. | EQUIPMENT ON HAND  | N/A                        |                |             |               |      |
| 8. | SUMMARY  | N/A                        |                |             |               |      |
|    |  |                            |                |             |               |      |
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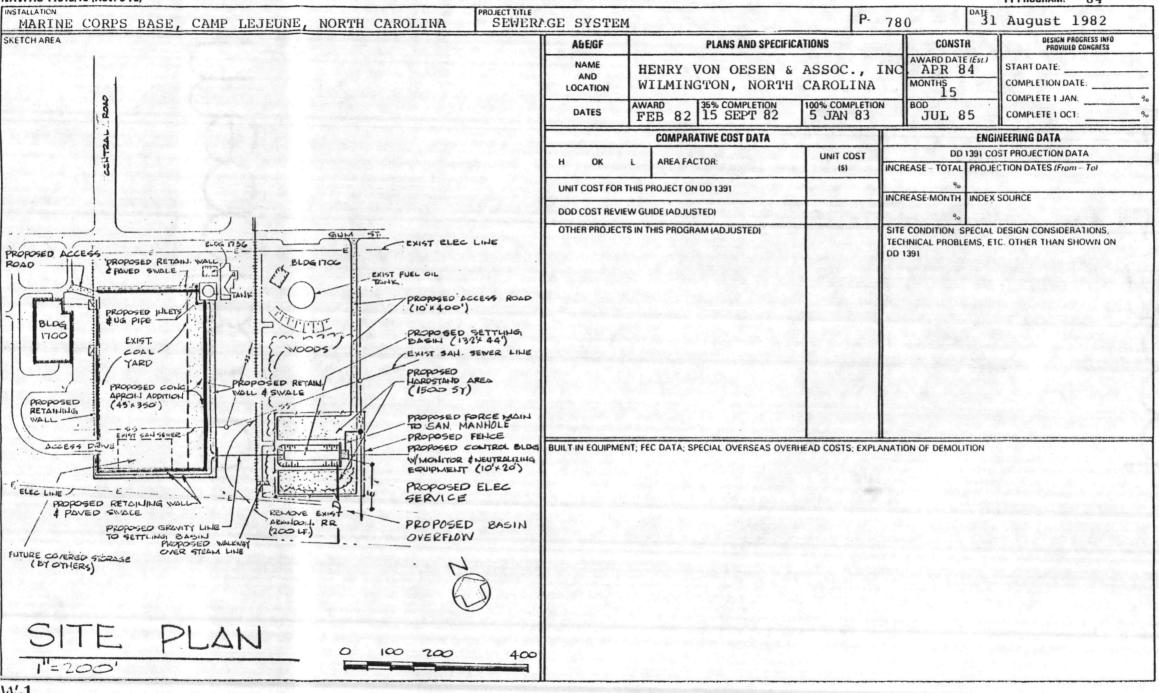


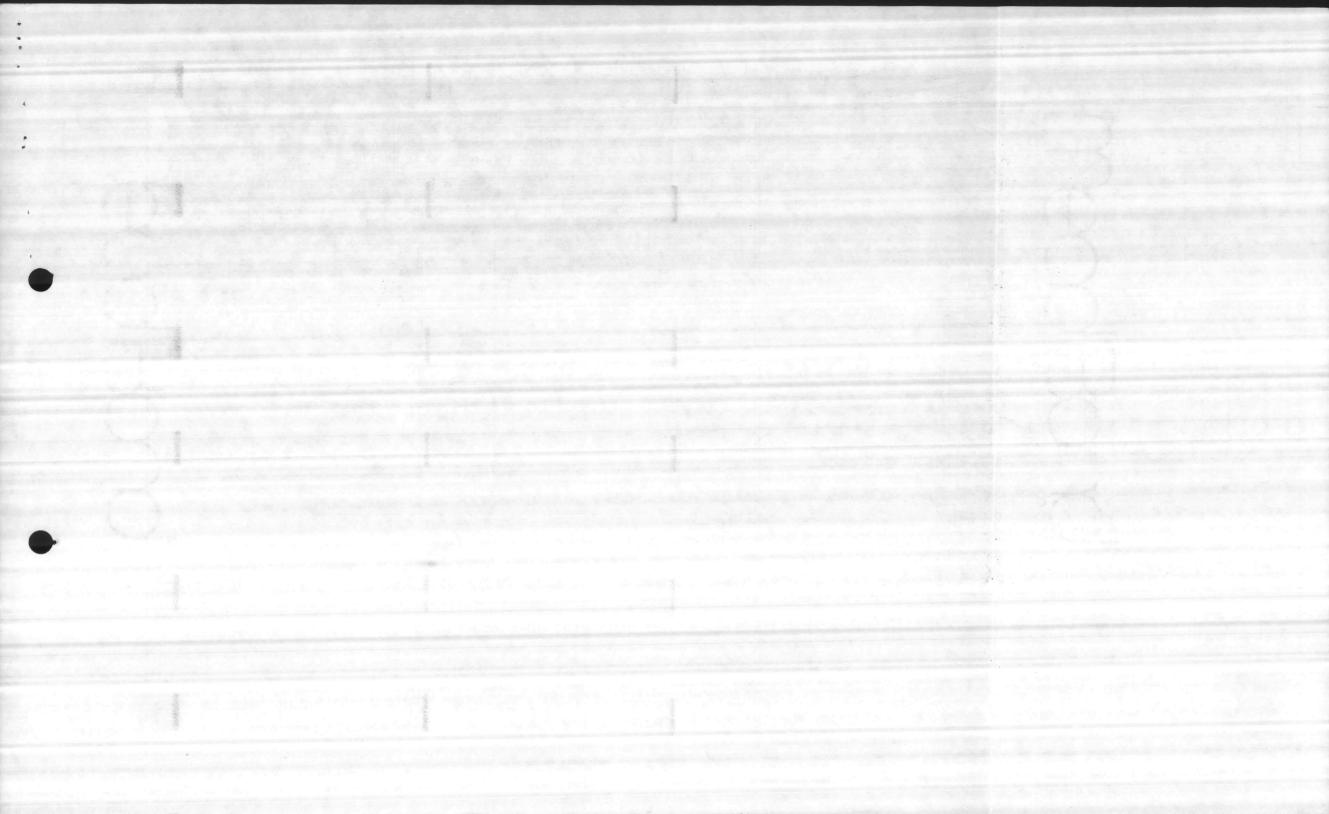
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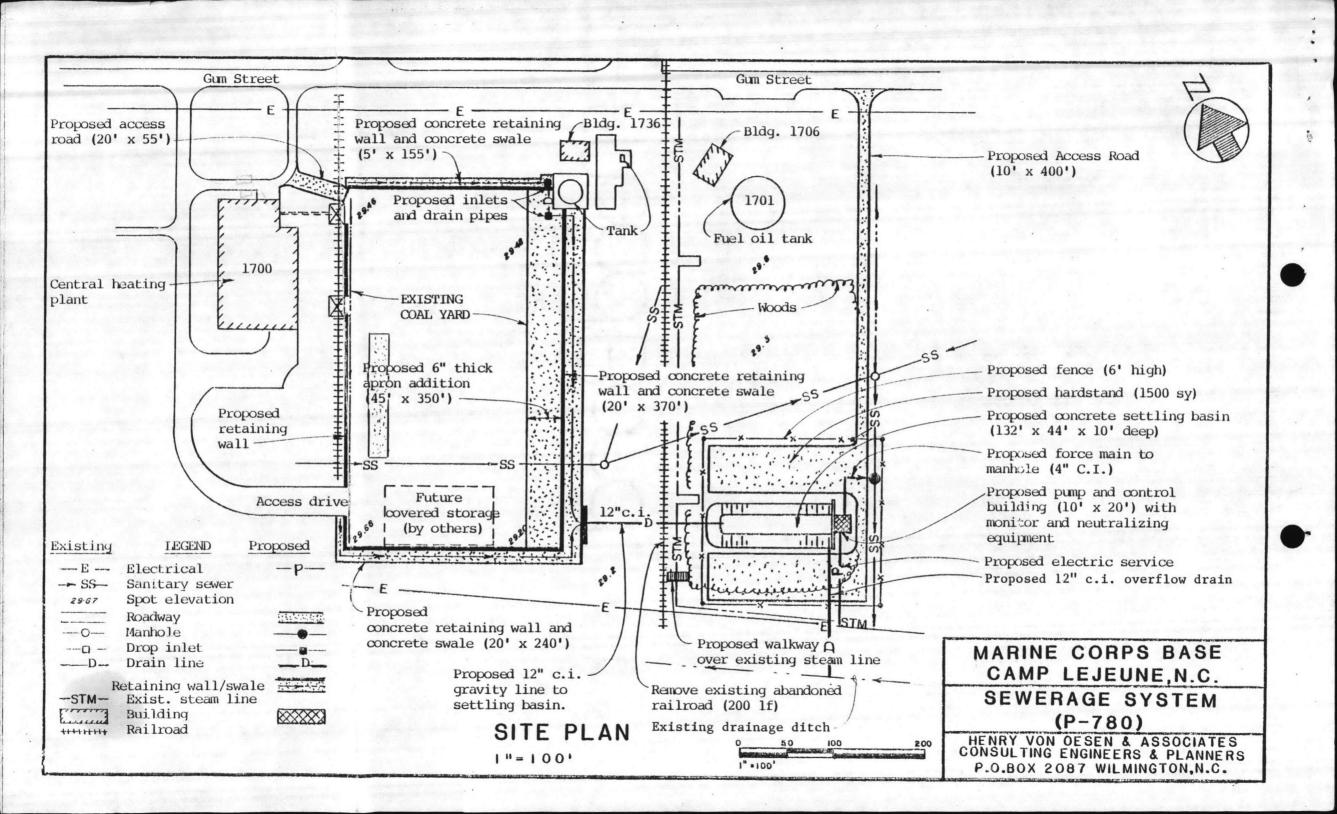
PREPARED BY: Manie

Extension APPROVED BY ASSISTANT DIVISION DIRECTOR:











# BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

MAIN/TH/rn 5420/3

JUL 2 7 1981

From: Base Maintenance Officer

To: Assistant Chief of Staff, Facilities

Subj: Preliminary Environmental Assessment, MCON Project P-780, Sewerage System

Ref: (a) AC/S, Fac 1tr FAC:RCP:mkc 5420/3 of 8 Jul 1981

Encl: (1) Preliminary Environmental Assessment MCON Project P-780, Sewerage System

1. As requested in reference (a), enclosure (1) is submitted for review.

F. H. MOUNT

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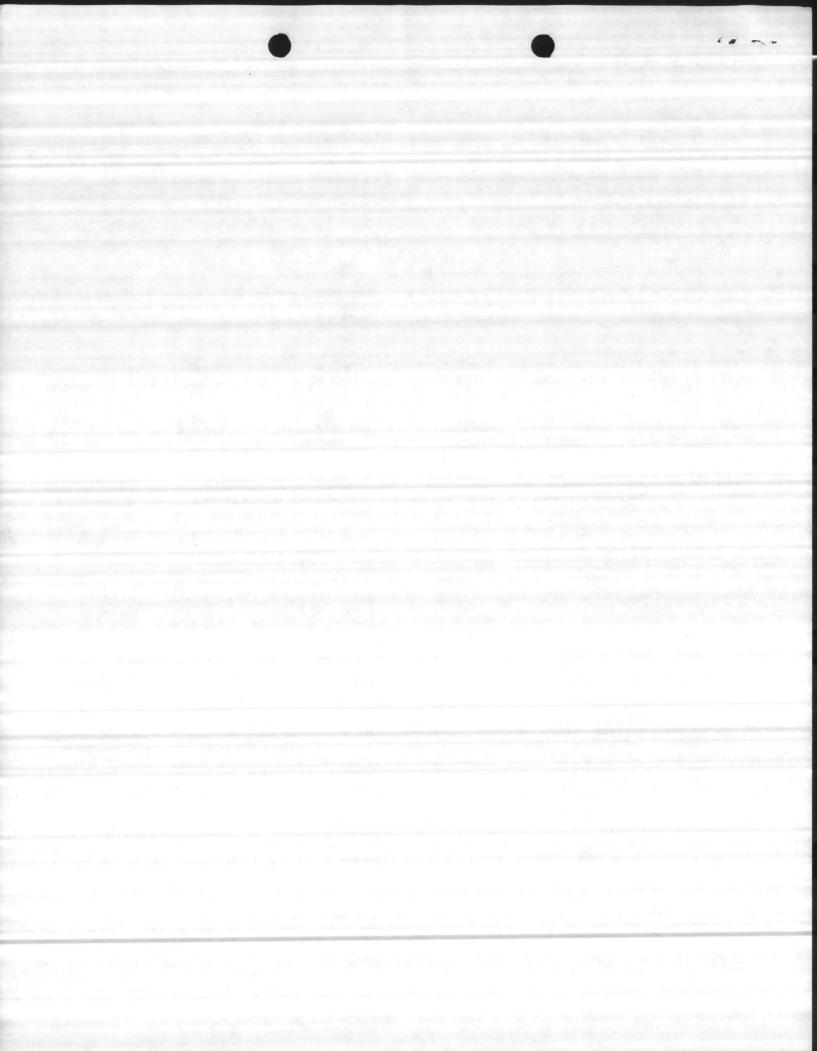
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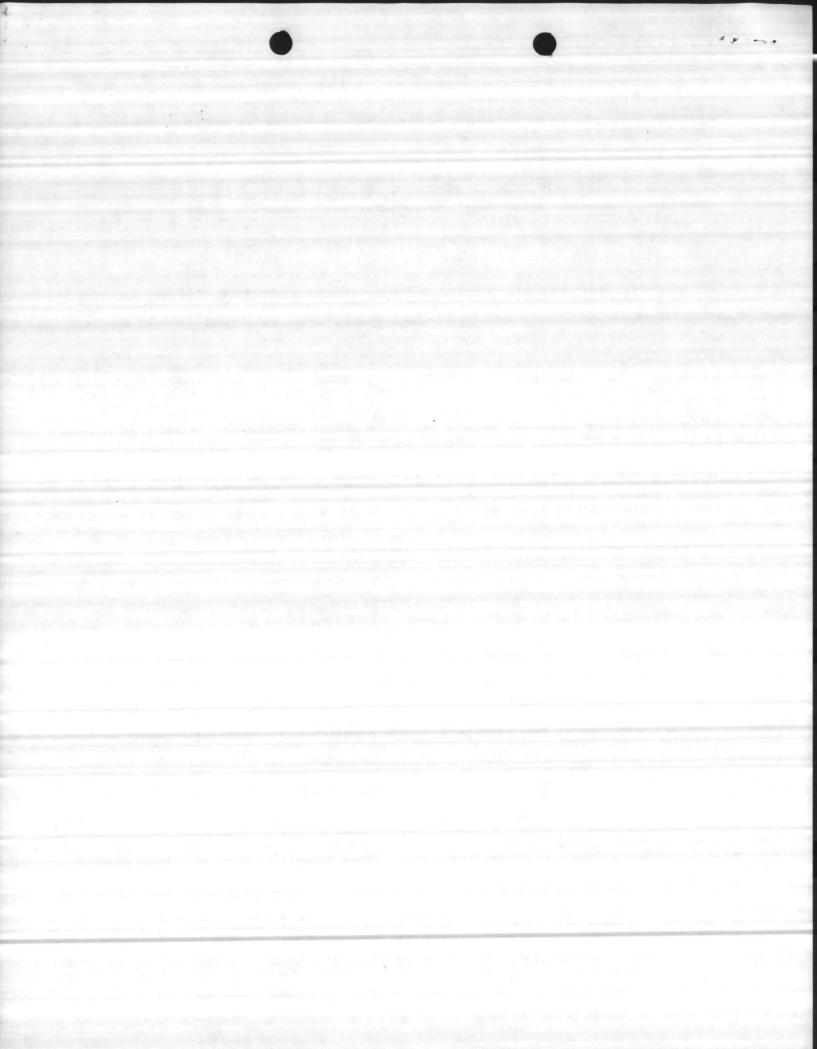
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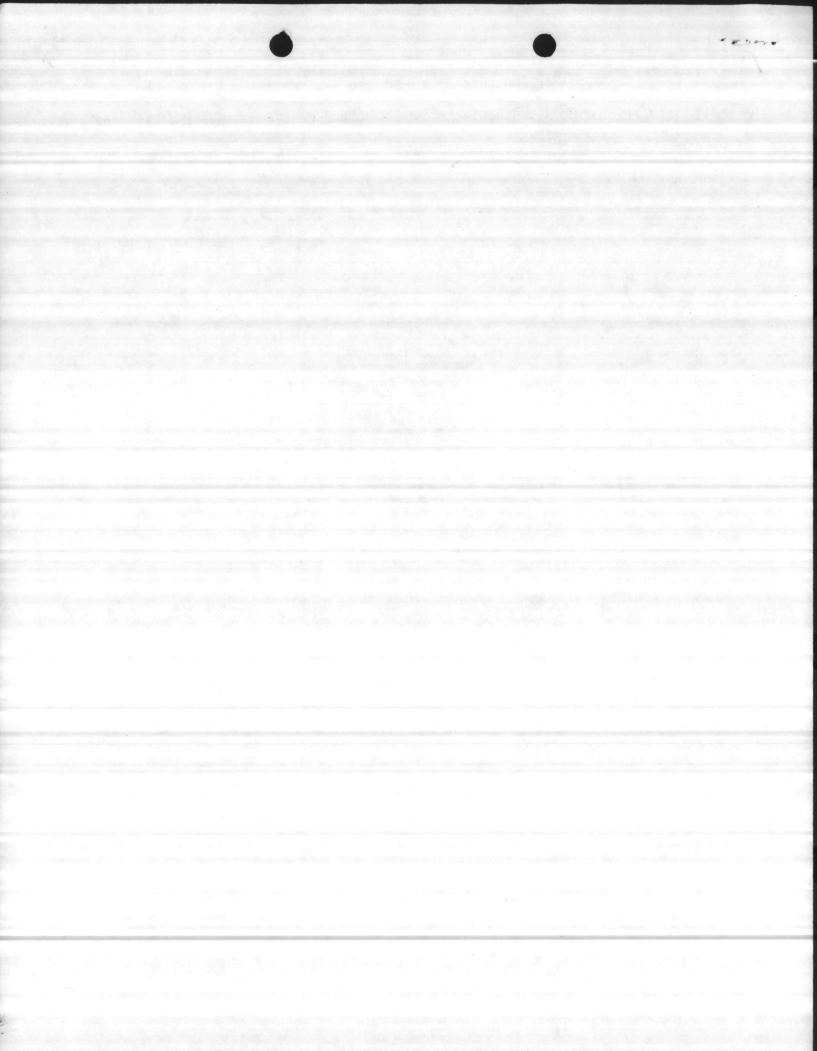
PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT MCON PROJECT P-780, SEWERAGE SYSTEM



- a. <u>Project Description</u>. This project will provide means to control the runoff of water and associated suspended solids from the coal pile storage area at the Central Steam Plant, as well as provide a stack monitoring system for the electrostatic precipitators at the plant to ensure compliance with air quality permit regulations.
- 2. Consideration of Alternatives and Site Selection. The coal pile storage area at the plant is an existing facility located by necessity adjacent to the plant utilizing the stored coal. The plant is located in the industrial area of Hadnot Point, and conforms well to the environment of this area. Relocation is not considered to be practical, and, accordingly, no alternatives were evaluated.
- 3. <u>Compliance with Federal, State and Local Environmental Regulations and Guidelines.</u>
  - a. <u>Endangered Species</u>. Not applicable.
- b. <u>Clean Water Act</u>. This project will have a significant beneficial impact on water quality since suspended solids in runoff water will be removed, and will no longer be allowed to flow into storm sewers and drainage ditches. The treated runoff water will be pumped into the sanitary sewer system for further treatment at the Hadnot Point Sewage Treatment Plant.
- c. <u>Clean Air Act</u>. This project will allow for monitoring of particulate emissions at plant stacks to ensure that plant emissions do not exceed allowable permit limits.
- d. <u>Coastal Zone Management Act</u>. There is no direct or indirect impact on tidal marshes, beaches, or other protected areas.
- e. <u>Archaeological and Historic Preservation Act</u>. The project site is in an existing industrial area that has previously been subjected to excavation. No archaeological or historic impact is expected.
- f. North Carolina Erosion and Sedimentation Regulations. As discussed in 3(b) above, this project will decrease the potential for sediment leaving the site.
- g. <u>Hazardous Materials and Hazardous Waste Disposal</u>. No hazardous materials are expected to be generated by this project. The requirements of B.O. 11090.1B will be followed in all cases.
  - h. Protection of Wetlands, Executive Order 11990. Not applicable.
- i. <u>Sanitary Waste and Refuse Disposal</u>. Refuse generated during construction will be collected by using personnel and disposed of at an approved refuse container or the sanitary landfill.
- j. <u>Discuss Other Regulations Applicable</u>. The proposed action does not involve any environmental regulations other than those discussed above.



- k. Permit Requiments. None.
- 1. Site Map. See Appendix A.
- 4. How Does the Proposed Action Impact on Other Base Functions and Missions?
- a. The project will not impact other base functions and missions. The project is consistent with the existing Master Plan and projected use of the surrounding area.



ASSISTANT CHIEF OF STAFF, FACILITIES HEADQUARTERS, MARINE CORPS BASE

DATE June 1281

TO:

BASE MAINT O

PUBLIC WORKS O

COMM-ELECT O

DIR, FAMILY HOUSING

DIR, UNACCOMPANIED PERS HSG

BASE FIRE CHIEF

MOTOR TRANSPORT O

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1. Attached is forwarded for info/action.

Comments?

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

3. Your file copy

aflerstin

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

Unded discussion with Al. Austings and Julian Booker - Prijet scheduler is acceptable as presented.

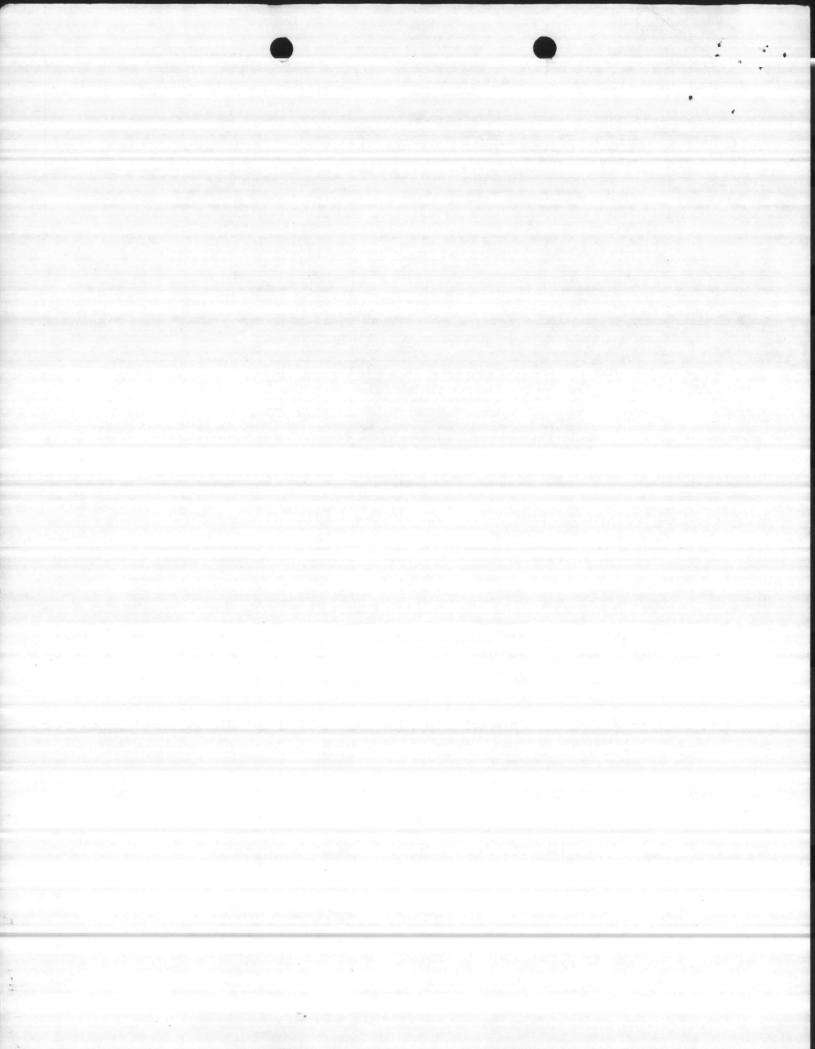
7. HAL MCBCL 5216/21 (REV. 2-81)



| om          | . Gommander,   | Naval Facilities Engineering Command   | 4 JUN 1001   |
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| :           | ,  |  |  |
|             | Commander,   | Atlantic Division, Naval Facilities E  | Engineering Command  |
| Subject:    | PLANNING FOR:  | X FY 19 84 MCON FY 19 MCNR 674 EXIGENT MCON FY 19 MCNR MINOR   | FY 19 SPECIFIED LOCATION MINOR MCON OTHER:   |
| fanc        | PROJECT NO.  | PRÓJECT DESCRIPTION  | ACTIVITY AND LOCATION  |
| ,           | P-780  | Sewerage System  | MCB Camp Lejeune, NC   |
| f:          | (a)  |  |  |
|             |  |  |  |
| cl:         | (1) DD Form 13   | 391 for subject project dated <u>11 June</u>   | 1980   |
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b. Provide best estimated cost, based or entry state or 2/1/82.

R. E. NIEMI By direction



NAVY

FY 19-83 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION AND LATION

MARINE CORPS BASE

CAMP LEJEUNE, N.C. 28542

5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000)

821-09

P-780

| 9. COST ESTIMATES  | U/M                                    | QUANTITY | UNIT | COST<br>(\$000)  |
|--|--|----------|------|--|
| COAL YARD CATCHMENT AND DISCHARGE SYSTEM T.V. CAMERAS & MONITORING SYSTEM TOTAL COST CONTINGENCY - 10% ESTIMATED CONTRACT COST SUPERVISION, INSPECTION & OVERHEAD - 5.5% TOTAL FUNDS REQUESTED PLANNING & DESIGN COST TOTAL PROJECT COST, ESCALATED TO F184 @ 6.2% & ROOMS | LS<br>LS<br>LS<br>LS<br>LS<br>LS<br>LS |          |      | 107<br>16<br>123<br>12<br>135<br>7<br>142<br>9<br>151<br>150 |

Provide pollution abatement facilities for coal yard storage area adjacent to Bldg. 1700. Project includes catchment and discharge system, t.v. monitoring system, erosion control, and associated work.

REQUIREMENTS:

PROJECT: Provide pollution control facilities for coal pile storage area,

stack emission t.v. monitors, and related work.

REQUIREMENT: The National Pollutant Discharge Elimination System (NPDES) for the Base requires compliance with the Clean Water Act (CWA) 33 USC 1251 ET SEQ.). The coal pile at the Central Heating Plant is a source of suspended solids that are dumped into surrounding storm sewers. With the recent addition of electrostatic precipitators to this plant, which will allow the burning of coal, a much larger volume of coal will be stored. This creates the potential for larger quantities of suspended solids to be dumped untreated into existing storm sewers. A t.v. monitoring system is required to insure compliance with standards established by the Environmental Protection Agency (EPA) and the State of North Carolina for generating plant facilities.

CURRENT SITUATION: Pollutants from the coal pile runoff are allowed to

drain off untreated.

IMPACT IF NOT PROVIDED: Coal storage may not be allowed at the Central Heating Plant if the runoff facility is not provided, resulting in having to use oil, a scarce resource, at the Central Heating Plant instead of cheaper and more abundant coal. The monitoring system is to insure that all pollution control systems are working properly.

DD 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY

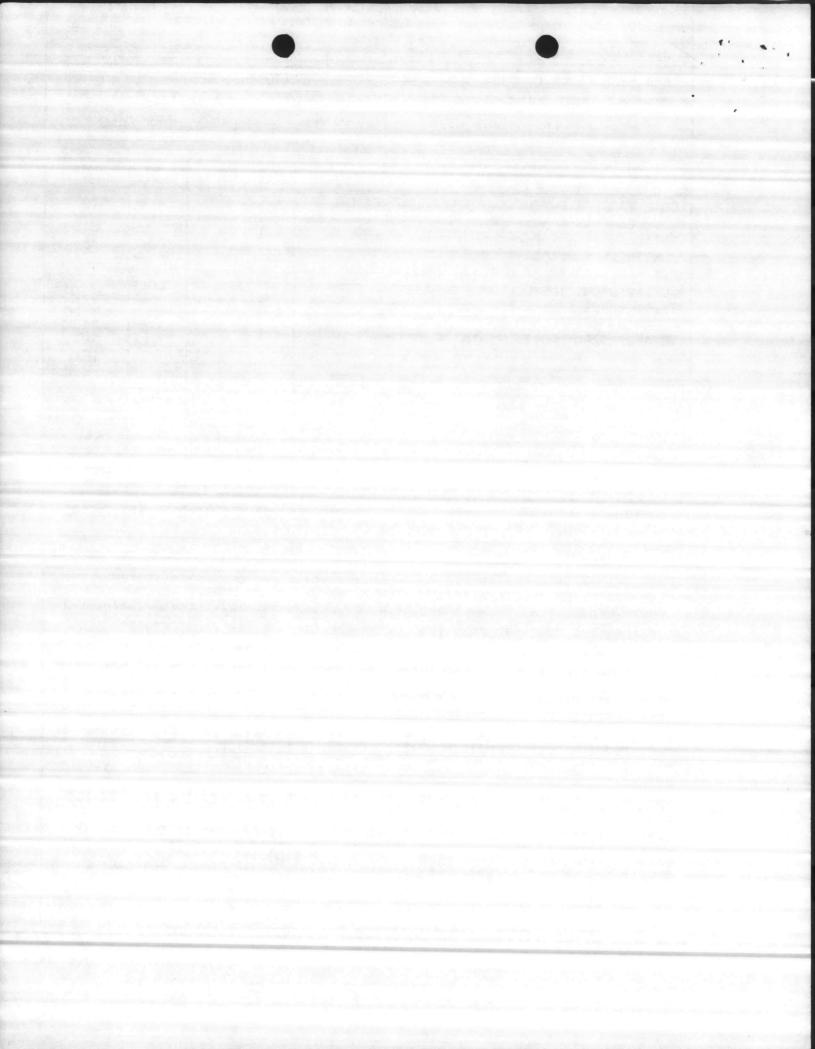
PAGE NO. 1 of 2

VN 0102-LF-001-3910

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142 150



| COMP. ONENT |
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# FY 19 81 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

11 JUN 19

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

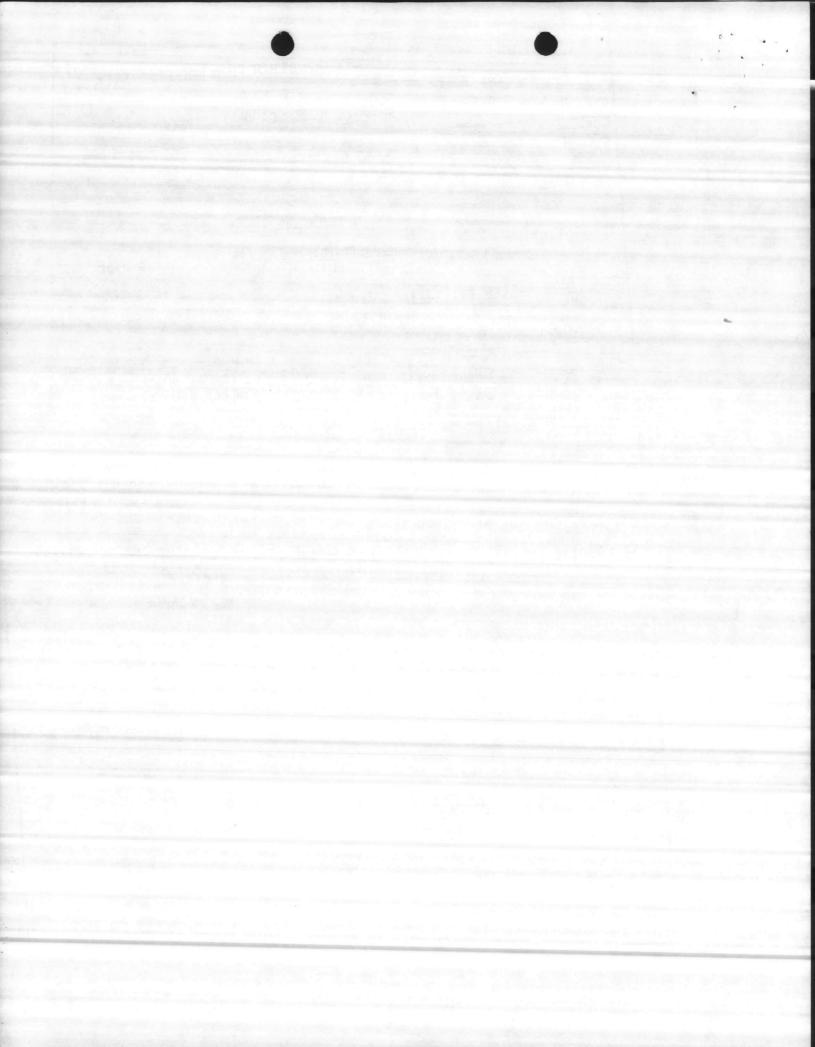
4. PROJECT TITLE COAL PILE RUNOFF TREATMENT AND MONITORING SYSTEM; BLDG. 1700-SEWERAGE SYSTEM

5. PROJECT NUMBER

P-780

# SPECIAL CONSIDERATIONS

- 1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.
- 2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296
- 3. Environmental Impact: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.
- 4. Fallout Shelter Construction: Not applicable.
- 5. Design for Accessibility of Physically Handicapped Personnel. Provisions for physically handicapped personnel are not required in this
- 6. Preservation of Historical Sites and Structures: The project facilities do not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possess a significant quality of American history.



# FY 19 83 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

11 JUN 1980

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

5. PROJECT NUMBER

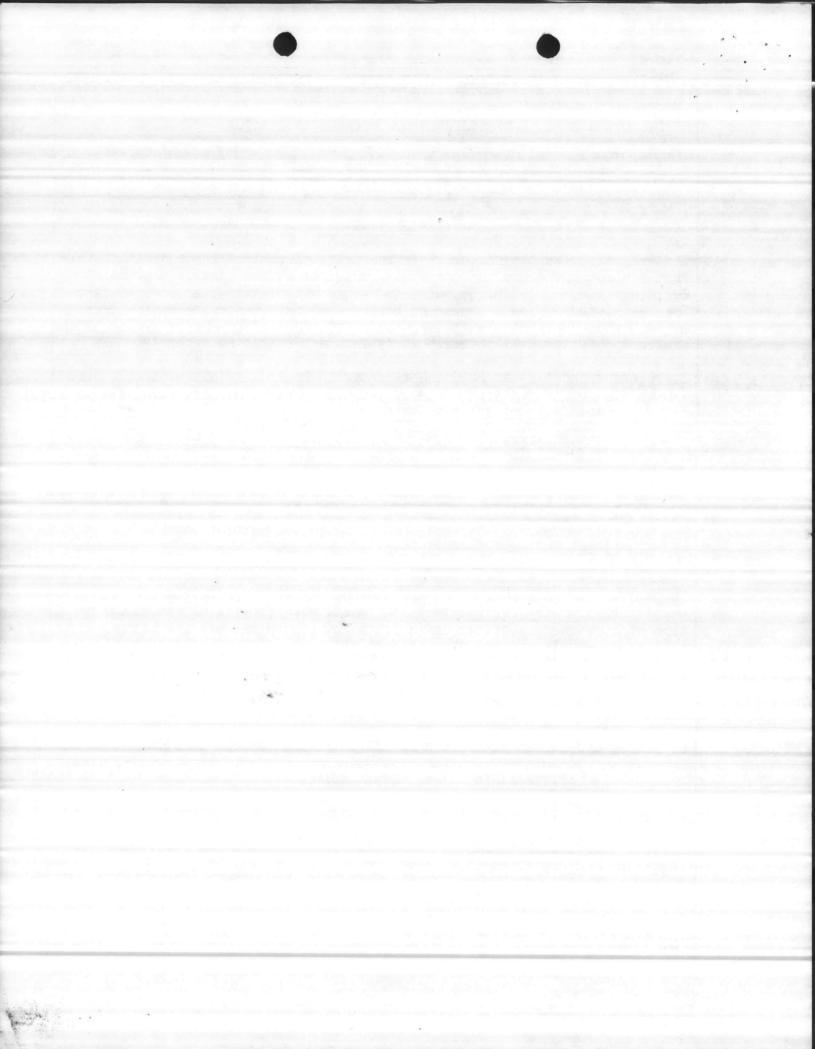
COAL PILE RUNOFF TREATMENT & MONITORING SYSTEM, BLDG. 1700 SENERAGE SYSTEM

P-780 ~

### \*FACILITY STUDY

- 1. Project: The project provides the means to control the runoff of water from the coal pile and monitor stack emissions at the Central Heating Plant, Building 1700, MCB, Camp Lejeune, to insure NPDES wastewater EPA standards. The basin, pumps, and associating piping will provide the means for treatment of the runoff before it is pumped into the sanitary sewer system. The monitoring system will insure both systems are operating properly.
- 2. Current and Planned Future Workload with Regard to This Project: Over one billion pounds of steam is produced each year at the Central Steam Plant. Ninety percent of this steam is produced from coal stored at this facility. The requirement for coal to be stored at this facility is expected to continue through the life of the proposed project.
- 3. Description of Proposed Construction:
  - a. Type of Construction: Permanent.
  - b. Replacement: Not applicable.
  - c. Description of Work to be Done:
- (1) Primary Facility: This project will consist of the construction of a concrete settling basin, curbing, piping between the basin and sanitary sewer lines, and pumping facilities, t.v. monitoring system, and related work.
- (2) Energy Conservation: Although the proposed project will not directly contribute to any savings in energy, it will indirectly contribute to the conserving of millions of gallons of oil yearly by allowing coal to be stored and burned at the Central Steam Plant, instead of oil.
  - (3) Collateral Equipment: Not applicable.
- 4. Cost Estimate: Area Construction Index is .95. Contingency factor to be utilized is 10 percent. The data is applicable to FY 1980. Cost data derived from cost estimate for MCAS Cherry Point Coal Yard Project, 78-B-8386 and escalated to reflect product cost on estimate.
- 5. Justification for Project and Scope of Project:
  - a. Justification for Project:

DD 1 DEC 76 1391C



| 1. COMPONENT<br>NAVY | FY 19 83 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE<br>11 JUN 1980 |
|----------------------|---|------------------------|
| MARINE CORP          | BASE, CAMP LEJEUNE, NORTH CAROLINA 28542    |                        |

4. PROJECT TITLE GOAL PILE RUNOFF TREATMENT & MONITORING SYSTEM, 5. PROJECT NUMBER BLDG. 17005 BERAGE SYSTEM

P-780

- (1) Project: The proposed project will provide for a coal pile runoff collection system with associated pumps and piping, and t.v. monitoring system.
- (2) Requirement: A runoff collection facility is required to insure that no contravention of EPA wastewater regulations occurs. The t.v. monitoring system visually monitors pollution abatement systems.
- (3) Current Situation: No means of collecting, treating and monitoring the coal pile runoff and stack emissions are presently available.
- (4) Impact if Not Provided: The coal pile runoff will continue to be emptied untreated into drainage ditches and proper functioning of stack emission abatement equipment cannot be assured. Oil, a scarce energy resource, will have to be burned at the plant, assuming coal cannot be stored at the plant without the construction of a runoff treatment facility.
- b. Justification for Scope of Project: The scope of the project is the minimum that should satisfy the requirements of the Clean Water Act (CWA) 33 USC 1251 ET SEQ. and EPA emission standards.
- Equipment Provided from Other Appropriations: None.
- Common Support Facilities: There are no common support facilities available that can satisfy the requirements for the proposed project.
- 8. Effect on Other Resources:
- a. The facility will require approximately \$2,000 per year in increased funding for utilities services and operations.
  - b. No additional personnel will be required to operate this facility.

## UTILITY REQUIREMENTS

c. Electricity will be the only energy requirement for the facility.

Consumption 70,000 KWHR/yr Peak Demand 8 KW Average Demand 8 KW

- 9. Siting of the Project: See Site Location Map.
- Other Graphic Presentations, including Photographs:

DD 1 DEC 76 1391c

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO. 2 Of 3



NAVY

## FY 19 84 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

11 JUN 1980

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

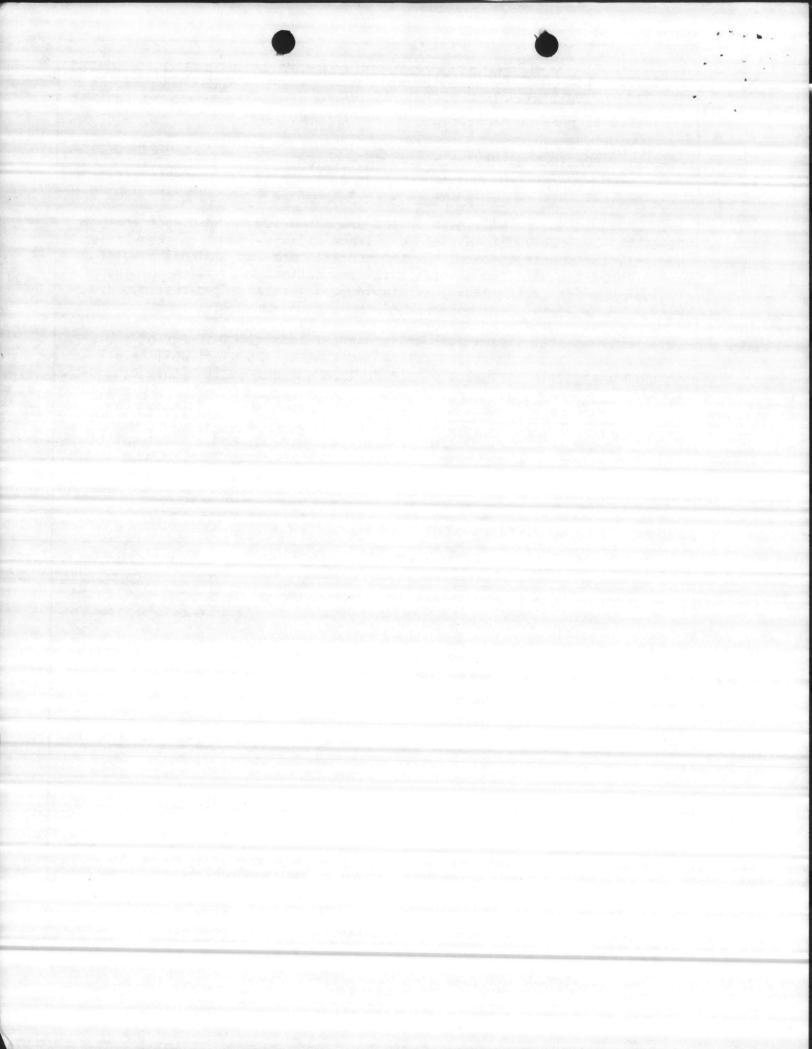
GOAL PILE RUNOFF TREATMENT & MONITORING SYSTEM,
BLDG. 1700 SECTED AGE SYSTEM

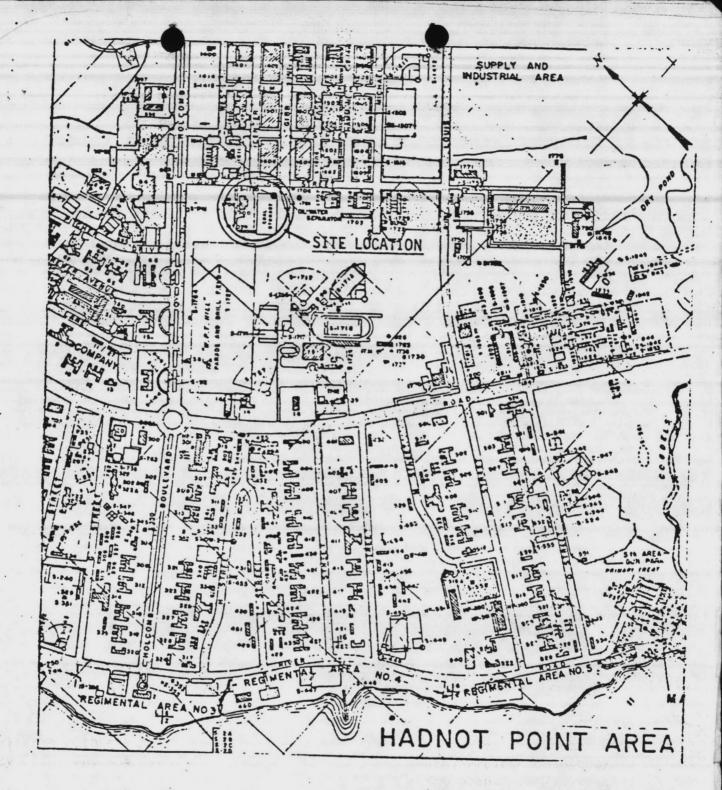
5. PROJECT NUMBER

P-780 -

- 11. Economic Analysis: The proposed project produces no direct economic benefits, but rather it insures compliance with environmental regulations. However, the construction of the project will provide indirect benefit, since complying with the environmental regulations will allow burning of coal, a cheaper, more readily available fuel instead of scarce, expensive oil.
- 12. Environmental Impact: An environmental impact assessment of the area has been made and it has been determined that this project will have neither a significant impact on the environment nor is it highly controversial.
- 13. Quantitative Data: Not applicable. This project is to correct is potential environmental hazards to the local ecology and ecosystems.

S/N 0102-LF-001-3915





SITE LOCATION FOR P-780, APPENDIX A

SOME TRAISE ALTERES ENTROTHER TEMPORARY PROPERTY - 1808

ROUTING SLIP 3 1 1980

| ACTION         | INFO   | INITIAL  |
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#### UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO PWO:408:EGJ:sh P-780/783

28 JUL 1980

Commanding General From:

Commandant of the Marine Corps (LFF) To:

Pollution Abatement Program for FY-83, MCB, Camp Lejeune, N.C. Sub.j:

Ref:

(a) MCO P11000.12A

(b) NAVFACINST 11010.32E

(c) CMC 1tr LFF-L-LAW-tiw 11000/CLNC of 29 Feb 1980

(1) Project Package for P-780, Coal Pile Runoff Treatment and Encl: Monitoring, Building 1700, consisting of DD Forms 1391 and 1391c dtd 11 Jun 1980, and Site Location Map

(2) Project Package for P-783, Stream Crossings for Tracked Vehicles, consisting of DD Forms 1391 and 1391c dtd 22 Jul

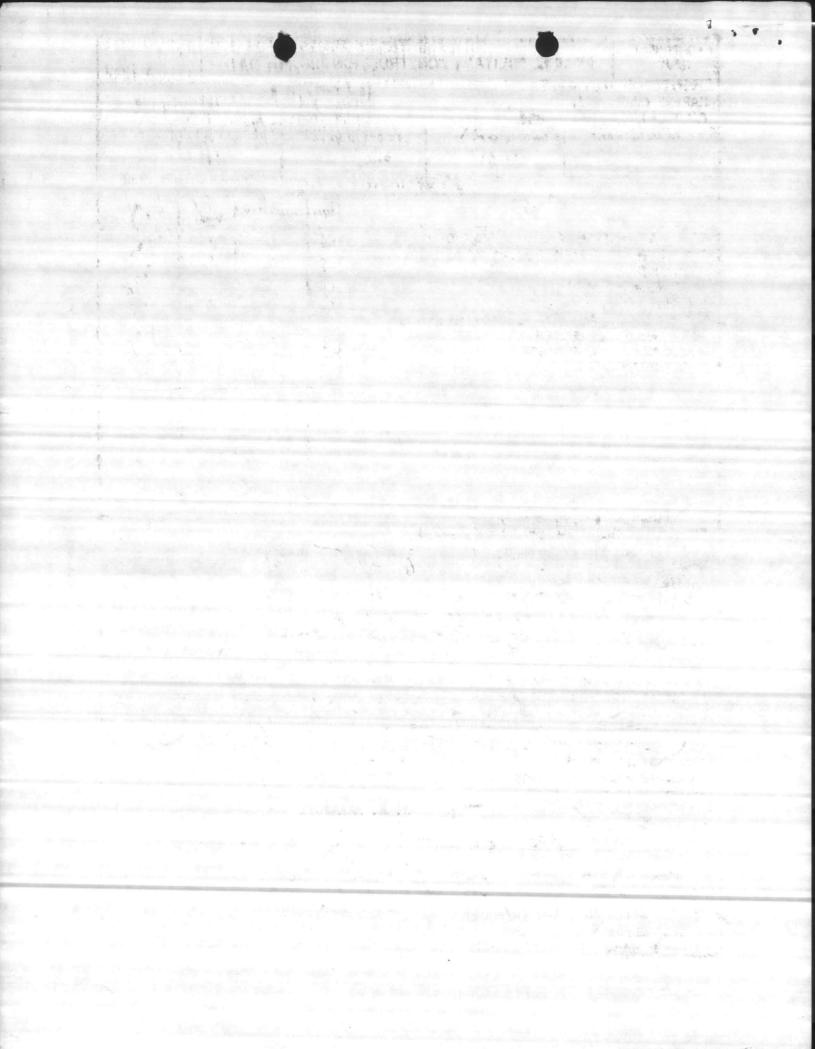
1980, and Site Location Map

- Reference (a) provided detailed guidance for submission of military construction projects. Reference (b) provided detailed instructions for preparation of the Navy Military Construction Pollution Abatement Program. Reference (c) requested submission of projects to be considered in the FY 1983 program. Accordingly, two projects are hereby submitted as enclosures (1) and (2).
- 2. Project P-780 will provide facilities for the collection and treatment of runoff from the coal storage area at the central heating plant and includes a television monitoring system for boiler stack emissions. Both systems are required to insure compliance with standards established by the Environmental Protection Agency and the State of North Carolina.
- 3. Project P-783 will provide permanent stream crossings for tracked vehicles throughout the Base and is required to ensure compliance with the Federal Clean Water Act.

J. A. MARAPOTI By direction

Copy to: (w/encl) NAVFACENGCOM (Code 114) LANTNAVFACENGCOM (Code 09A21E)

Blind copy to: (w/encl) AC/S, Fac BMO



POLLUTION ABATEMENT PROGRAM 1. COMPONENT 2. DATE FY 1983 MILITARY CONSTRUCTION PROJECT DATA NAVY 11 JUN 1980 3. INSTALLATION AND LOCATION 4. PROJECT TITLE MARINE CORPS BASE COAL PILE RUNOFF TREATMENT & MONITORING, BLDG. 1700 CAMP LEJEUNE, N.C. 28542 5. PROGRAM ELEMENT 8. PROJECT COST (\$000) 6. CATEGORY CODE 7. PROJECT NUMBER 142 821-09 P-780 9 COST ESTIMATES

| ITEM   | U/M                              | QUANTITY | COST | COST<br>(\$000)                                       |
|--|----------------------------------|----------|------|---|
| COAL YARD CATCHMENT AND DISCHARGE SYSTEM T.V. CAMERAS & MONITORING SYSTEM TOTAL COST CONTINGENCY - 10% ESTIMATED CONTRACT COST SUPERVISION, INSPECTION & OVERHEAD - 5.5% TOTAL FUNDS REQUESTED PLANNING & DESIGN COST TOTAL PROJECT COST | LS<br>LS<br>LS<br>LS<br>LS<br>LS |          |      | 107<br>16<br>123<br>12<br>135<br>7<br>142<br>9<br>151 |
|  |                                  |          |      |   |

Provide pollution abatement facilities for coal yard storage area adjacent to Bldg. 1700. Project includes catchment and discharge system, t.v. monitoring system, erosion control, and associated work. See PW Dwg 14167.

REQUIREMENTS:

PROJECT: Provide pollution control facilities for coal pile storage area,

stack emission t.v. monitors, and related work.

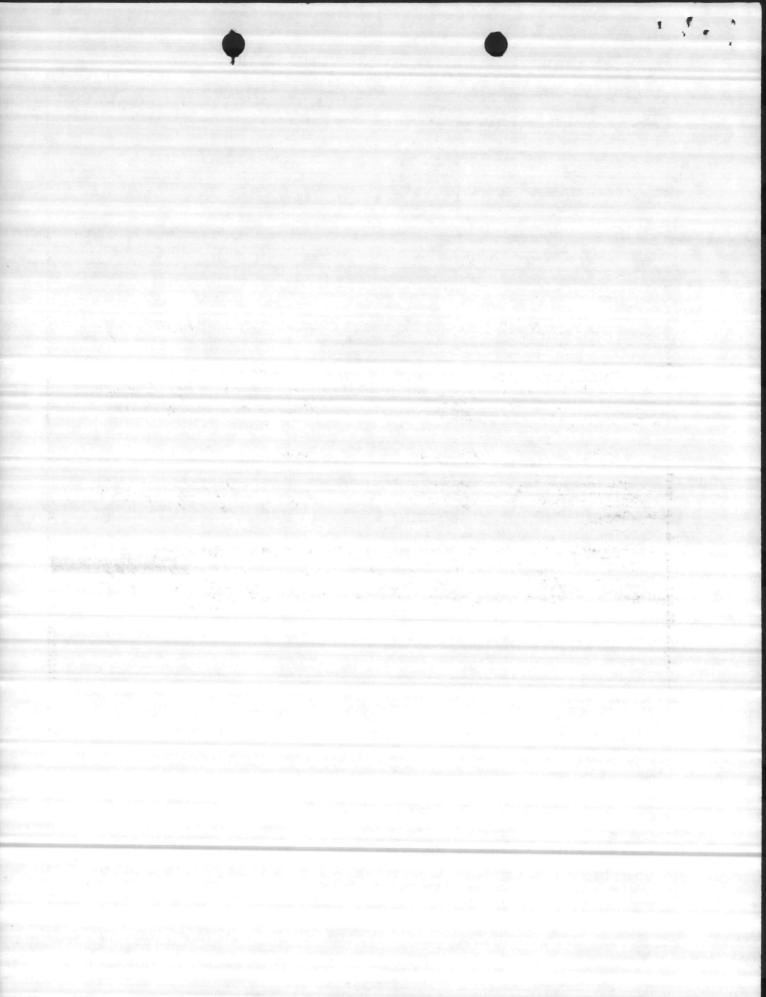
REQUIREMENT: The National Pollutant Discharge Elimination System (NPDES) for the Base requires compliance with the Clean Water Act (CWA) 33 USC 1251 ET SEQ.). The coal pile at the Central Heating Plant is a source of suspended solids that are dumped into surrounding storm sewers. With the recent addition of electrostatic precipitators to this plant, which will allow the burning of coal, a much larger volume of coal will be stored. This creates the potential for larger quantities of suspended solids to be dumped untreated into existing storm sewers. A t.v. monitoring system is required to insure compliance with standards established by the Environmental Protection Agency (EPA) and the State of North Carolina for generating plant facilities.

CURRENT SITUATION: Pollutants from the coal pile runoff are allowed to

drain off untreated.

IMPACT IF NOT PROVIDED: Coal storage may not be allowed at the Central Heating Plant if the runoff facility is not provided, resulting in having to use oil, a scarce resource, at the Central Heating Plant instead of cheaper and more abundant coal. The monitoring system is to insure that all pollution control systems are working properly.

DD 1 DEC 76 1391



1. COMPONENT
NAVY
FY 19 83 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION AND LOCATION
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

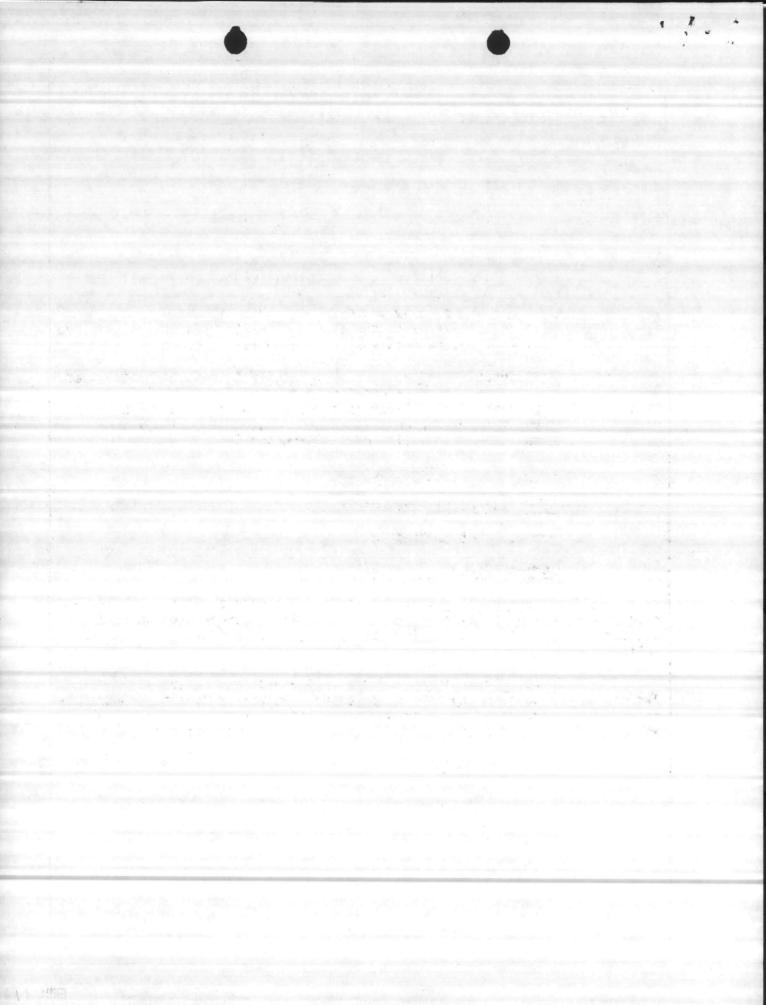
4. PROJECT TITLE
COAL PILE RUNOFF TREATMENT AND MONITORING SYSTEM,
BLDG. 1700

2. DATE
11 JUN 1980

5. PROJECT NUMBER
P-780

#### SPECIAL CONSIDERATIONS

- 1. <u>Pollution Prevention</u>, <u>Abatement</u>, <u>and Control</u>: This project will not cause additional air or water pollution.
- 2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.
- 3. Environmental Impact: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.
- 4. Fallout Shelter Construction: Not applicable.
- 5. <u>Design for Accessibility of Physically Handicapped Personnel</u>. Provisions for physically handicapped personnel are not required in this facility.
- 6. <u>Preservation of Historical Sites and Structures</u>: The project facilities do not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possess a significant quality of American history.



1. COMPONENT
NAVY
FY 19 83 MILITARY CONSTRUCTION PROJECT DATA
11 JUN 1980

3. INSTALLATION AND LOCATION
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

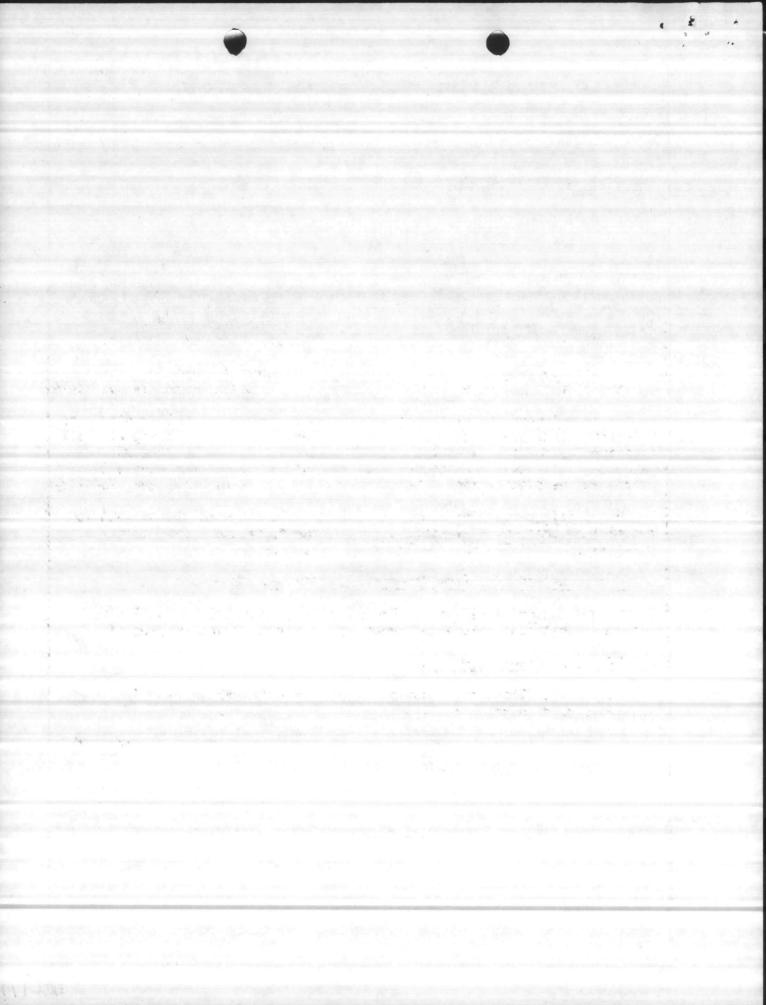
4. PROJECT TITLE
COAL PILE RUNOFF TREATMENT & MONITORING SYSTEM,
BLDG. 1700

2. DATE
11 JUN 1980

5. PROJECT NUMBER
P-780

#### FACILITY STUDY

- 1. <u>Project</u>: The project provides the means to control the runoff of water from the coal pile and monitor stack emissions at the Central Heating Plant, Building 1700, MCB, Camp Lejeune, to insure NPDES wastewater EPA standards. The basin, pumps, and associating piping will provide the means for treatment of the runoff before it is pumped into the sanitary sewer system. The monitoring system will insure both systems are operating properly.
- 2. <u>Current and Planned Future Workload with Regard to This Project: Over one billion pounds of steam is produced each year at the Central Steam Plant.</u> Ninety percent of this steam is produced from coal stored at this facility. The requirement for coal to be stored at this facility is expected to continue through the life of the proposed project.
- 3. Description of Proposed Construction:
  - a. Type of Construction: Permanent.
  - b. <u>Replacement</u>: Not applicable.
  - c. Description of Work to be Done:
- (1) Primary Facility: This project will consist of the construction of a concrete settling basin, curbing, piping between the basin and sanitary sewer lines, and pumping facilities, t.v. monitoring system, and related work.
- (2) Energy Conservation: Although the proposed project will not directly contribute to any savings in energy, it will indirectly contribute to the conserving of millions of gallons of oil yearly by allowing coal to be stored and burned at the Central Steam Plant, instead of oil.
  - (3) Collateral Equipment: Not applicable.
- 4. <u>Cost Estimate</u>: Area Construction Index is .95. Contingency factor to be utilized is 10 percent. The data is applicable to FY 1980. Cost data derived from cost estimate for MCAS Cherry Point Coal Yard Project, 78-B-8386 and escalated to reflect product cost on estimate.
- 5. Justification for Project and Scope of Project:
  - a. <u>Justification for Project:</u>



| 1. COMPONENT NAVY                              | 11 JUN 1980  |       |
|--|--|-------|
|  | BASE, CAMP LEJEUNE, NORTH CAROLINA 28542   |       |
| 4. PROJECT TITLE<br>COAL PILE RI<br>BLDG. 1700 | WASS SECTIONS A MANAGEMENT OF THE STATE OF T | P-780 |

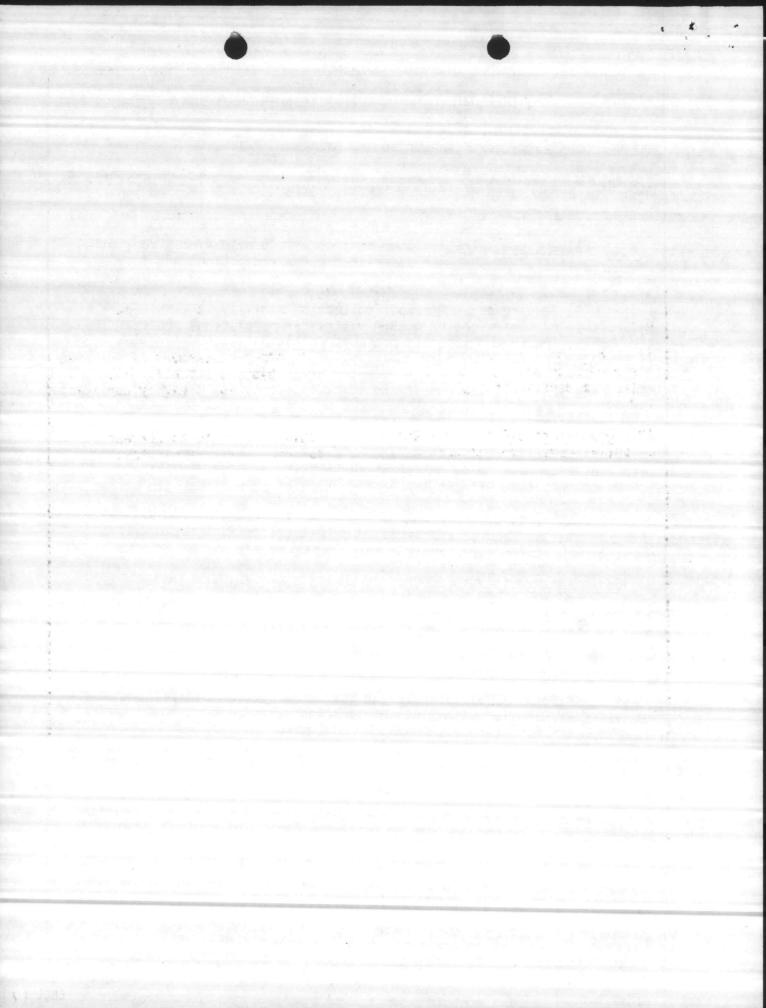
- (1) <u>Project</u>: The proposed project will provide for a coal pile runoff collection system with associated pumps and piping, and t.v. monitoring system.
- (2) Requirement: A runoff collection facility is required to insure that no contravention of EPA wastewater regulations occurs. The t.v. monitoring system visually monitors pollution abatement systems.
- (3) <u>Current Situation</u>: No means of collecting, treating and monitoring the coal pile runoff and stack emissions are presently available.
- (4) Impact if Not Provided: The coal pile runoff will continue to be emptied untreated into drainage ditches and proper functioning of stack emission abatement equipment cannot be assured. Oil, a scarce energy resource, will have to be burned at the plant, assuming coal cannot be stored at the plant without the construction of a runoff treatment facility.
- b. <u>Justification for Scope of Project</u>: The scope of the project is the minimum that should satisfy the requirements of the Clean Water Act (CWA) 33 USC 1251 ET SEQ. and EPA emission standards.
- 6. Equipment Provided from Other Appropriations: None.
- 7. <u>Common Support Facilities</u>: There are no common support facilities available that can satisfy the requirements for the proposed project.
- 8. Effect on Other Resources:
- a. The facility will require approximately \$2,000 per year in increased funding for utilities services and operations.
  - b. No additional personnel will be required to operate this facility.

## UTILITY REQUIREMENTS

c. Electricity will be the only energy requirement for the facility.

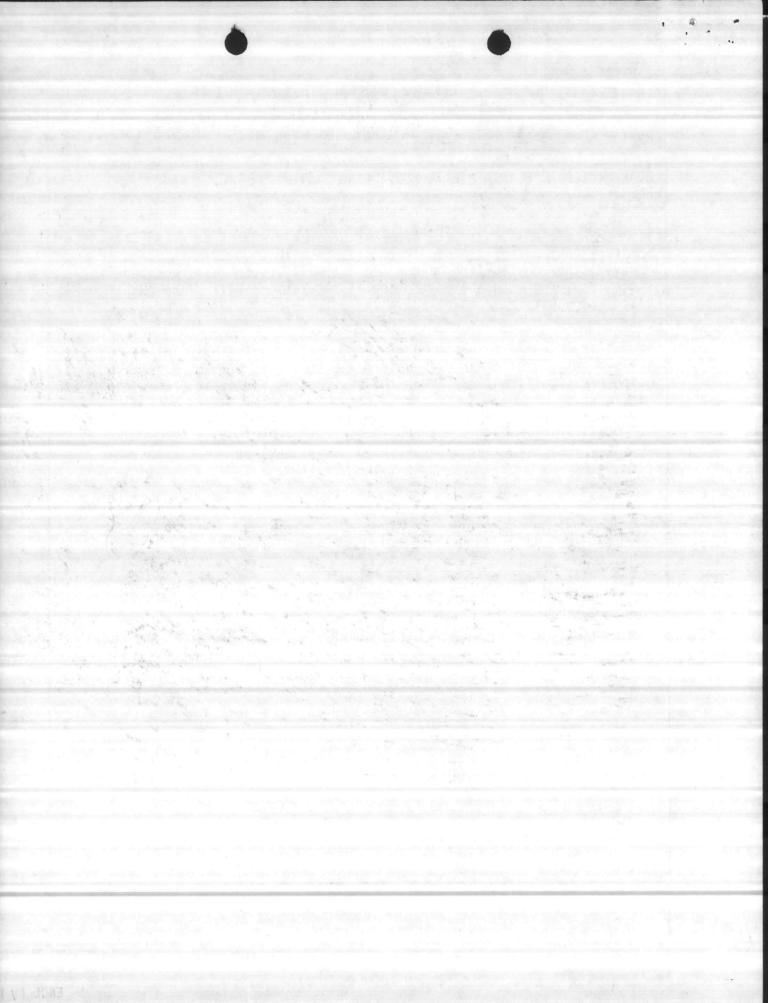
Consumption 70,000 KWHR/yr Peak Demand 8 KW Average Demand 8 KW

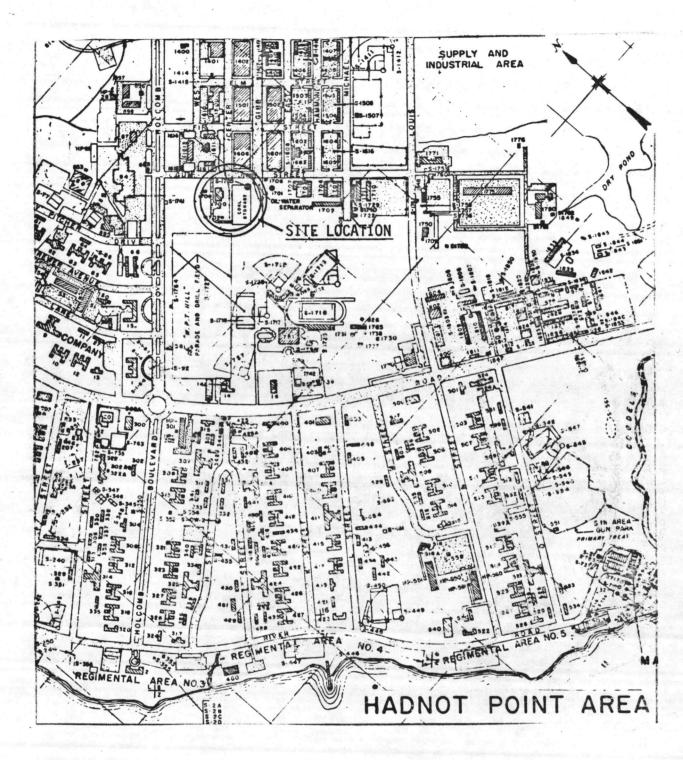
- 9. Siting of the Project: See Site Location Map.
- 10. Other Graphic Presentations, including Photographs: None.



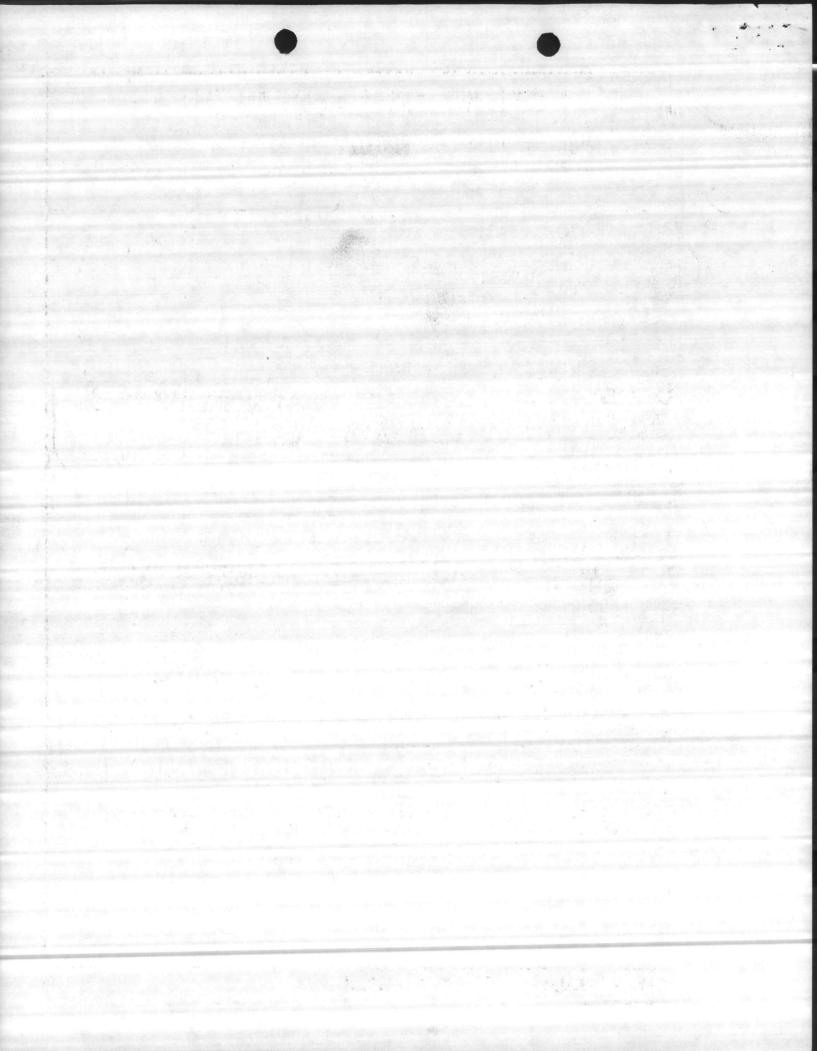
| 1. COMPONENT NAVY   | 2. DATE<br>11 JUN 1980                     |       |
|---|--|-------|
| 3. INSTALLATION MARINE CORP   | S BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 |       |
| 4. PROJECT TITLE COAL PILE RUNOFF TREATMENT & MONITORING SYSTEM, BLDG. 1700 |  | P-780 |

- 11. <u>Economic Analysis</u>: The proposed project produces no direct economic benefits, but rather it insures compliance with environmental regulations. However, the construction of the project will provide indirect benefit, since complying with the environmental regulations will allow burning of coal, a cheaper, more readily available fuel instead of scarce, expensive oil.
- 12. <u>Environmental Impact</u>: An environmental impact assessment of the area has been made and it has been determined that this project will have neither a significant impact on the environment nor is it highly controversial.
- 13. Quantitative Data: Not applicable. This project is to correct potential environmental hazards to the local ecology and ecosystems.





SITE LOCATION FOR P-780,
COAL PILE RUNOFF TREATMENT & MONITORING SYSTEM, BLDG. 1700



1. COMPONENT 2. DATE FY 1983 MILITARY CONSTRUCTION PROJECT DATA POLLUTION ABATEMENT PROGRAM 22 Jul 1980 NAVY 3. INSTALLATION AND LOCATION MARINE CORPS BASE 4. PROJECT TITLE STREAM CROSSINGS FOR TRACKED VEHICLES CAMP LEJEUNE, NORTH CAROLINA 28542 5 PROGRAM ELEMENT 6. CATEGORY CODE 8. PROJECT COST (\$000) 7 PROJECT NUMBER 630 871-00 P-783

| ITEM   | U/M | QUANTITY | UNIT   | COST<br>(\$000)     |
|--|-----|----------|--------|---------------------|
| STREAM CROSSING STRUCTURE Excavation, fill, culverts, reinforced conc. | EA  | 25       | 21,600 | 540                 |
| pavement, erosion control & site work SUBTOTAL                         | LS  |          |        | <u>(540)</u><br>540 |
| CONTINGENCY (10%)  | LS  | -        | -      | 54_                 |
| TOTAL CONTRACT COST<br>SUPERVISION, INSPECTION & OVERHEAD (5.5%)       | LS  | -        | -      | 594<br>33           |
| TOTAL REQUEST  | LS  |          |        | 627                 |
| TOTAL REQUEST (ROUNDED) .  | LS  |          | -      | 630                 |
| EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS                           | -   | -        | -      |                     |
|  |     |          |        |                     |
|  |     |          |        |                     |
|  |     |          |        |                     |

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provide permanent stream crossing structures, complete with culverts, rip-rap, fill, reinforced concrete approach pads, ramps, shoulder stabilization, erosion control and site improvements.

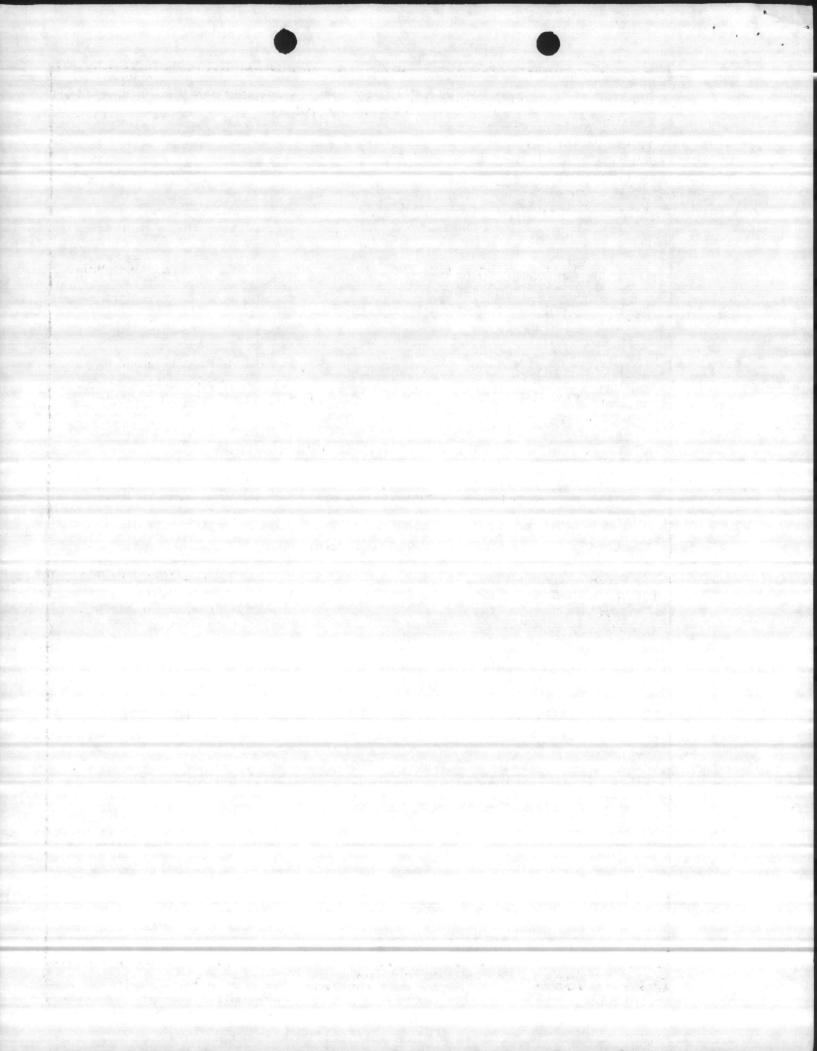
#### 11. REQUIREMENTS:

PROJECT: Construct all weather stream crossings for tracked armored vehicles, i.e. tanks, self-propelled artillery, amphibious personnel carriers, etc.

REQUIREMENT: To prevent water pollution of perennial streams from sedimentation and petroleum products from vehicles and prevent further violations of the Federal Clean Water Act.

CURRENT SITUATION: Infractions are generated during military tactical vehicle operations and training using the dirt trail system located on the

IMPACT IF NOT PROVIDED: Continued practice will result in further pollution and additional citations for violations of Section 404 of the Federal Clean Water Act by the Department of Army, Corps of Engineers, District Office, Wilmington, NC and/or State Regulatory agencies.



1. COMPONENT
NAVY
FY 1983 MILITARY CONSTRUCTION PROJECT DATA
POLLUTION ABATEMENT PROGRAM

3. INSTALLATION AND LOCATION
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

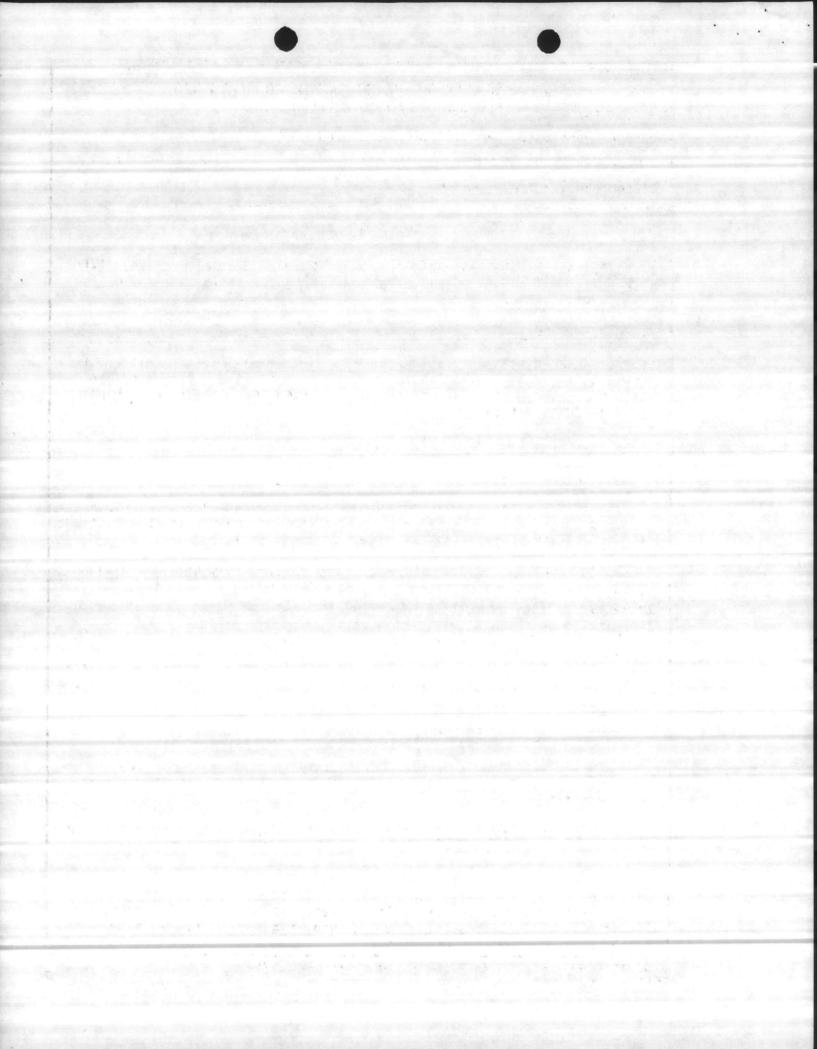
4. PROJECT TITLE
STREAM CROSSINGS FOR
TRACKED VEHICLES

2. DATE
22 Jul 1980

5. PROJECT NUMBER
P-783

#### SPECIAL CONSIDERATIONS

- 1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.
- 2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.
- 3. Environmental Impact: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.
- 4. Fallout Shelter Construction: Not applicable.
- 5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required for this project.
- 6. Use of Air Conditioning: Not applicable.
- 7. Preservation of Historical Sites and Structures: The project facility does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.



1. COMPONENT
NAVY
FY 19 83 MILITARY CONSTRUCTION PROJECT DATA
POLLUTION ABATEMENT PROGRAM

3. INSTALLATION AND LOCATION
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

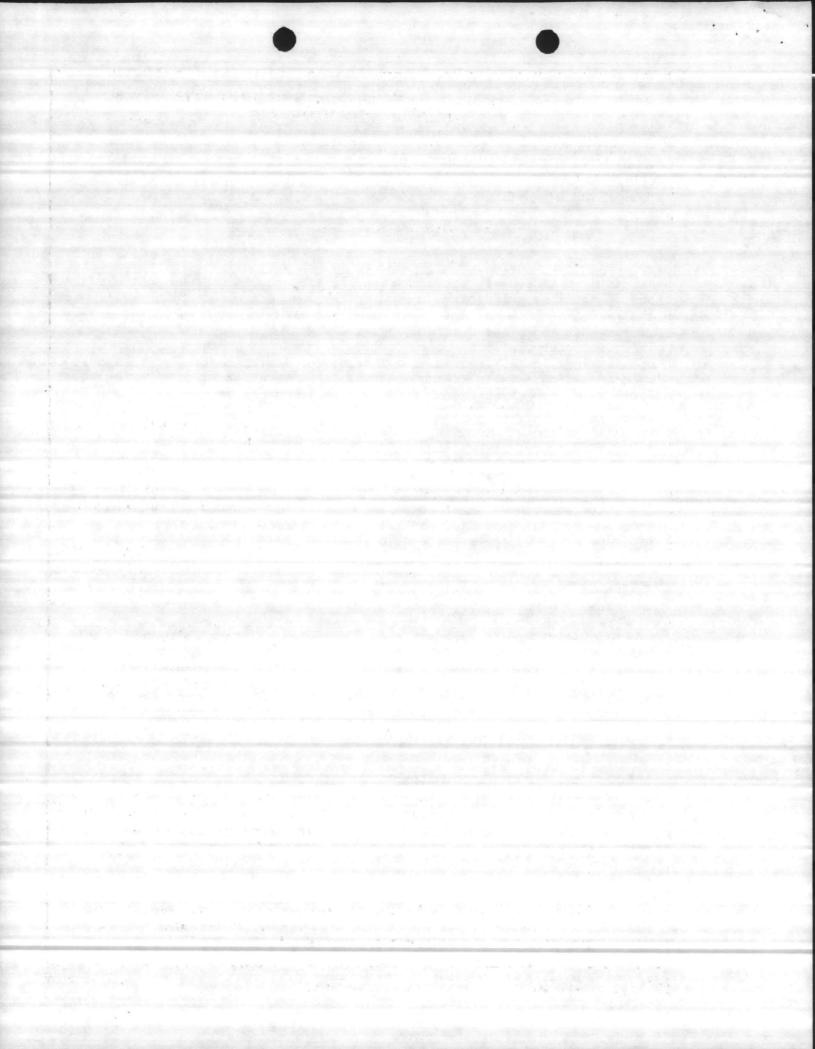
4. PROJECT TITLE
STREAM CROSSINGS FOR TRACKED VEHICLES

2. DATE
22 JUL 1980

5. PROJECT NUMBER
P-783

#### FACILITY STUDY

- 1. <u>Project</u>. Provide 25 environmentally approved all weather perennial stream crossings designed to support all tracked vehicles using the dirt trail system on the Base.
- 2. Current and Planned Future Workload with Regard to this Project. These structures will be utilized 100% of the time and the duration of need is indefinite. Decreased potential for environmental impact should reduce environmental planning input by Base training and using organizations and a net reduction of the Base Maintenance Department manhours spent on upkeep of the structures.
- 3. Description of Proposed Construction.
  - a. Type of Construction.
- (1) Permanent stream crossing with reinforced concrete approach pads and ramps, earthfill, asphalt coated metal culvert with channel flume, rip rap, perennial grasses, erosion control and site stabilization.
- (2) Construction sufficient to support tracked vehicles including 60 ton tanks, traveling at 5-15 mph including abrupt stops, starts, and twisting.
- b. Replacement. Approximately 80% of the existing culverts will be replaced due to undersizing and requirement that construction be within existing trail right of way to avoid unnecessary environmental assessment and permit requirements. Soil in existing fills will be utilized. Usable culverts will be stored for reuse by the Base Maintenance Department.
  - c. Description of Work to be Done.
- (1) Primary Facility. Mastic coated culvert with inlet-outlet flume, compacted fill, reinforced concrete approach pad and ramp, rip-rap shoulder stabilization.
- (a) <u>Support Facilities</u>. Erosion control, site and vegetation restoration.
- (2) Energy Conservation. The reduction of the closing of individual sections of the trail roads will result in a marked reduction of distances traveled during essential operational training. Significant reductions in fuel use due to reduced maintenance will impact favorably on the Base Maintenance Department.

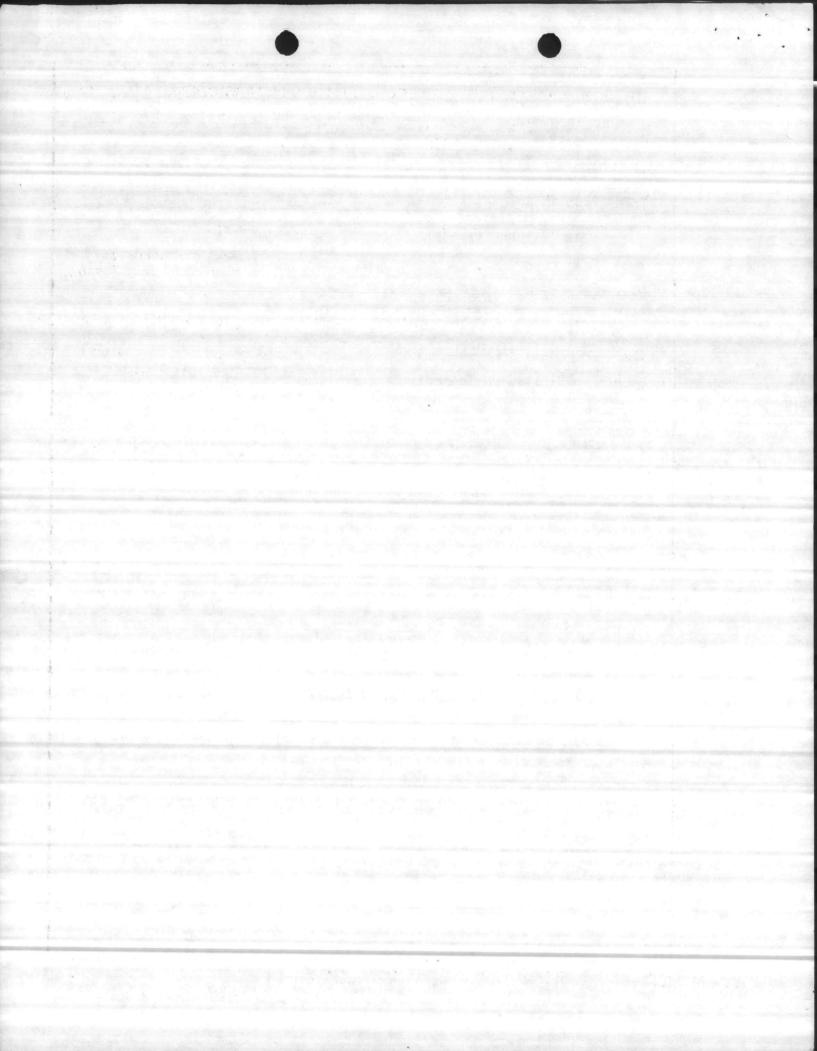


1. COMPONENT
NAVY
FY 19.83 MILITARY CONSTRUCTION PROJECT DATA
POLLUTION ABATEMENT PROGRAM

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3. INSTALLATION AND LOCATION
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

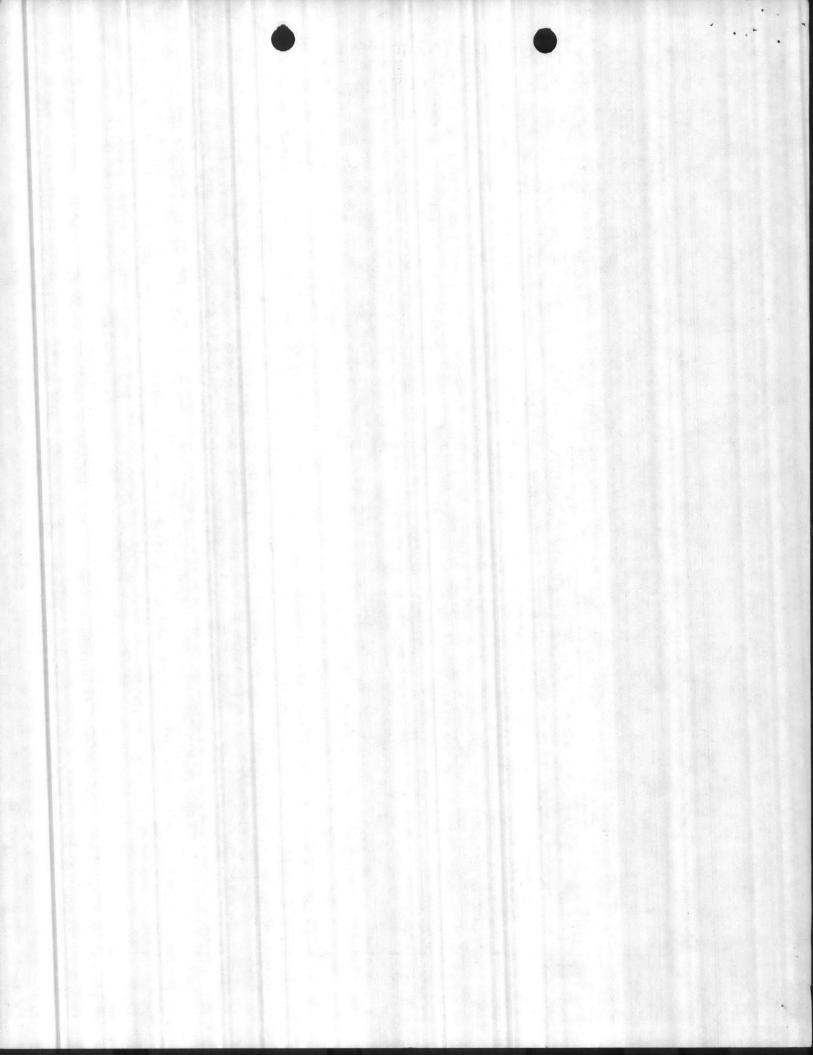
4. PROJECT TITLE
STREAM CROSSINGS FOR TRACKED VEHICLES
P-783

- (3) Collateral Equipment. Not applicable.
- (4) Supporting facilities. Not applicable.
- 4. <u>Cost Estimate</u>. Area cost factor for Camp Lejeune is 0.95. From the Military Construction Cost Review Guide, FY-82 (DOD 4270.1G).
- 5. Justification for Project and for Scope of Project.
  - a. Justification for Project.
- (1) Project. Proposed facilities are required for compliance with Section 404, Clean Water Act; to reduce damage to protected wetlands; and prevent interference with tactical vehicle training missions.
- (2) <u>Current Situation</u>. Two violations of the Clean Water Act by Base activities has been cited by the Department of Army, Corps of Engineers, District Office, Wilmington, NC. Twenty-three other sites have equivalent conditions and impact on the environment.
- (3) Impact if not Provided. Additional violations of Federal laws, loss of environmental values, and potential interruptions of training with related public criticism and embarrassment to the Marine Corps as a result of litigation.
- b. <u>Justification for Scope of Project</u>. Each of the proposed sites has been visited by trained environmental specialists and a determination made that the environmental impact was equivalent to the sites where violations have been cited; additionally, it was determined that routine maintenance would not correct the problem.
- 6. Equipment Provided from Other Appropriations. Not applicable.
- 7. Common Support Facilities. Not applicable.
- 8. Effect on Other Resources. A slight decrease in user manpower and a projected significant reduction in O and M funds, Base Maintenance Department is expected. Similar reductions in fuel use (energy) is to be expected at the same level of use. Since the facilities will enable training during more days/year, use may tend to increase, offsetting savings.
- 9. Siting of the Project. Existing stream crossings will be replaced utilizing same site to avoid environmental impact and related permit and assessment requirements at various locations throughout the dirt trail system. See enclosure (1).



| 1. COMPONENT NAVY       | FY 19_83_MILITARY CONSTRUCTION PROJECT DATA POLLUTION ABATEMENT PROGRAM | 22 JUL 1980  |
|-------------------------|---|--------------|
| 3. INSTALLATION         | AND LOCATION  |              |
| MARINE COR              | PS BASE, CAMP LEJEUNE, NORTH CAROLINA                                   |              |
| 4. PROJECT TITLE 5. PRO |   | OJECT NUMBER |
| STREAM CROSS            | 783   |              |

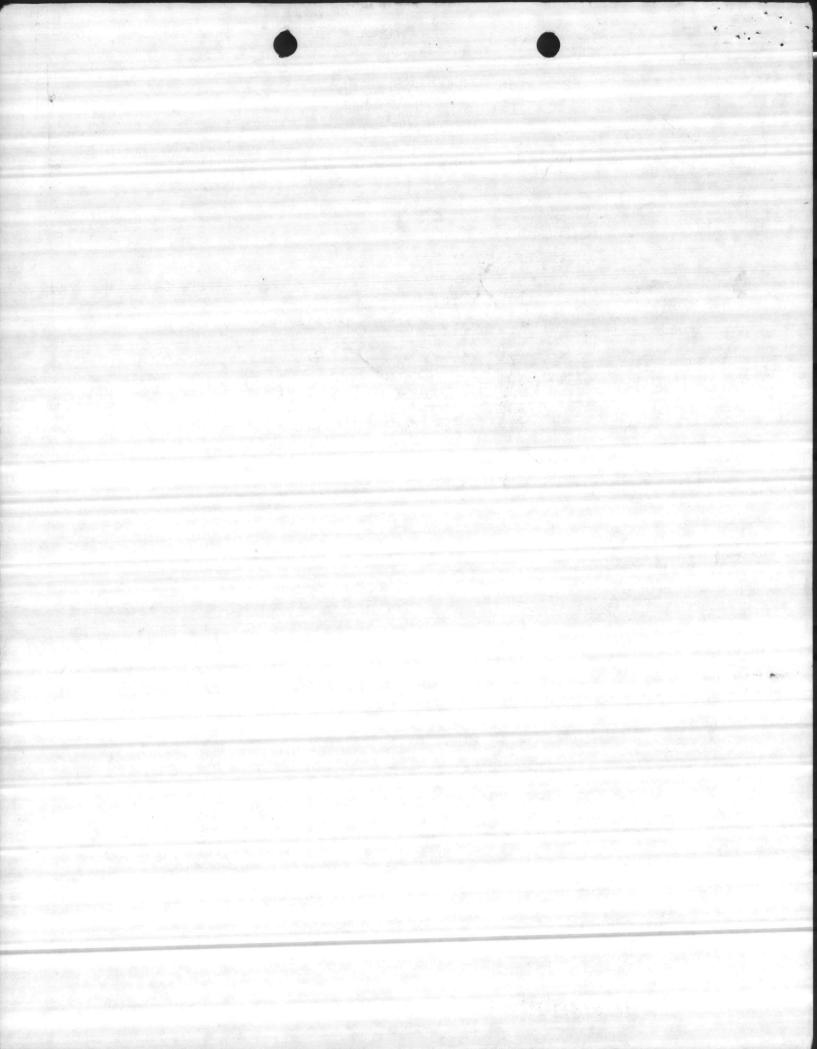
- 10. Other Graphic Presentations, including Photographs. None.
- 11. <u>Economic Analysis</u>. Economic savings will be in normal savings from efficient operations. This is a project in support of operational missions required in these areas.
- 12. Environmental Impact. Due to the nature of the project, its siting of structures within areas disturbed by existing structures, the reduction of erosion, sedimentation, and damage to wetlands, and discussions with regulatory agency personnel, no significant controversy or adverse impact is expected during the replacement of the existing structures.
- 13. Quantitative Data.
- a. <u>BFRL Requirement</u>. None required. Structures constructed where needed.



# SITE LOCATION MAP FOR

## P-783, STREAM CROSSINGS FOR TRACKED VEHICLES





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

MAIN/TH/rn 11000 MAR 1 3 1980

From: Base Maintenance Officer
To: Public Works Officer

Subj: Development of Project for Coal Pile Runoff Treatment, Central Heating Plant, Building 1700

Ref: (a) PWO memo PWO:408:BB:bb 11000 of 21 Feb 1980

Encl: (1) DD Form 1391 (2) DD Form 1391e

1. As requested in reference (a), information on the subject project has been developed and is contained in enclosures (1) and (2).

2. If you have further questions, please contact Mr. Terry Hatcher, Utilities Division, telephone 5161.

T. R. BAISLEY

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| NAVY FY 1980 MILITARY CONS   |                                       |         | T DATA         | 2. DATE<br>10 Mar 1980                                    |
|--|---------------------------------------|---------|----------------|---|
| 3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542  |                                       | YARD CO | E<br>LLECTOR B | BASIN   |
| 5. PROGRAM ELEMENT 6. CATEGORY CODE  | 7. PROJECT NU                         | JMBER   | 8. PROJECT     | COST (\$000)  |
| 9. COST  | ESTIMATES                             |         |                |   |
| • ITEM   | U                                     | M QUAN  | TITY UNIT C    | COST (SOCO)   |
| COAL YARD SETTLING BASIN SANITARY SEWER PIPING, CONNECTIONS COLLECTOR PUMPS, ELECTRICAL AIR WASHER, PIPING PAVING & CURBING TOTAL COST CONTINGENCY - 5% ESTIMATED CONTRACT COST SUPERVISION, INSPECTION & OVERHEAD - TOTAL FUNDS REQUESTED | L:<br>L:<br>L:<br>L:<br>L:<br>5.5% L: |         |                | 66<br>37<br>11<br>10<br>22<br>146<br>7<br>153<br>8<br>161 |

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provide and tie into existing sewer system piping, a coal pile runoff collection basin, along with associated pumps and piping.

#### 11. REQUIREMENTS

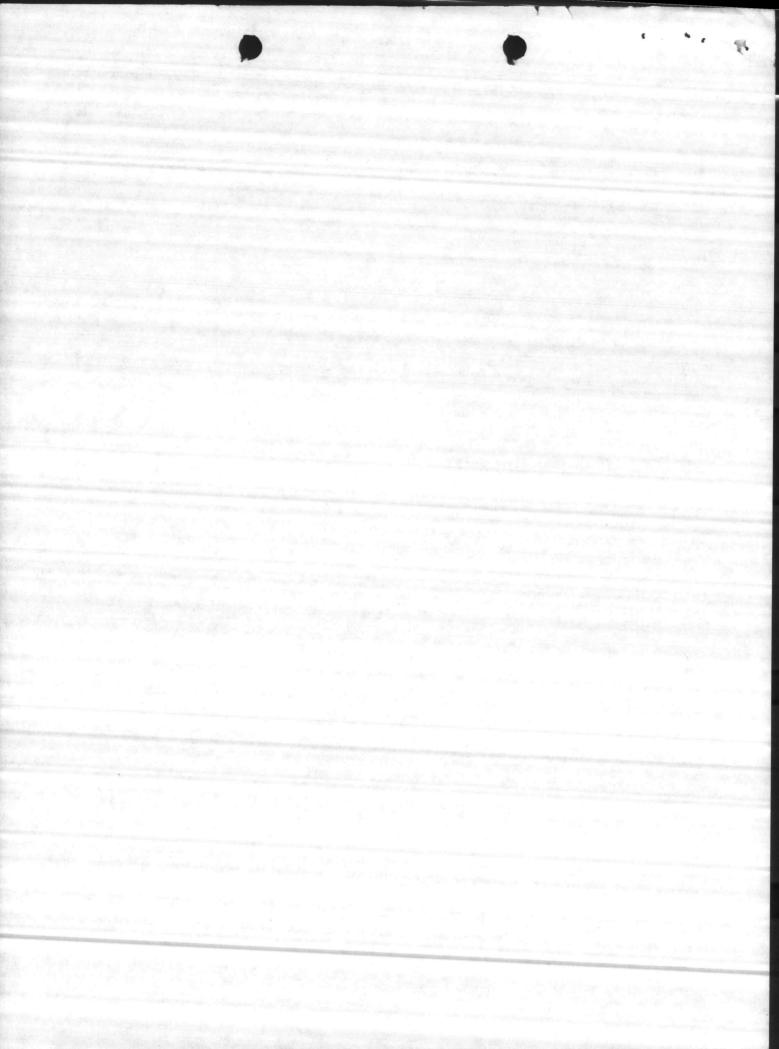
PROJECT: Provide a coal pile runoff collection and treatment facility.

REQUIREMENT: In order to comply with the requirements of National

Pollutant Discharge Elimination System (NPDES) wastewater discharge permit,
the coal pile runoff facility must be completed and in operation by 1 July
1982.

CURRENT SITUATION: Runoff from the coal pile currently flows into drainage ditches and surrounding areas, untreated.

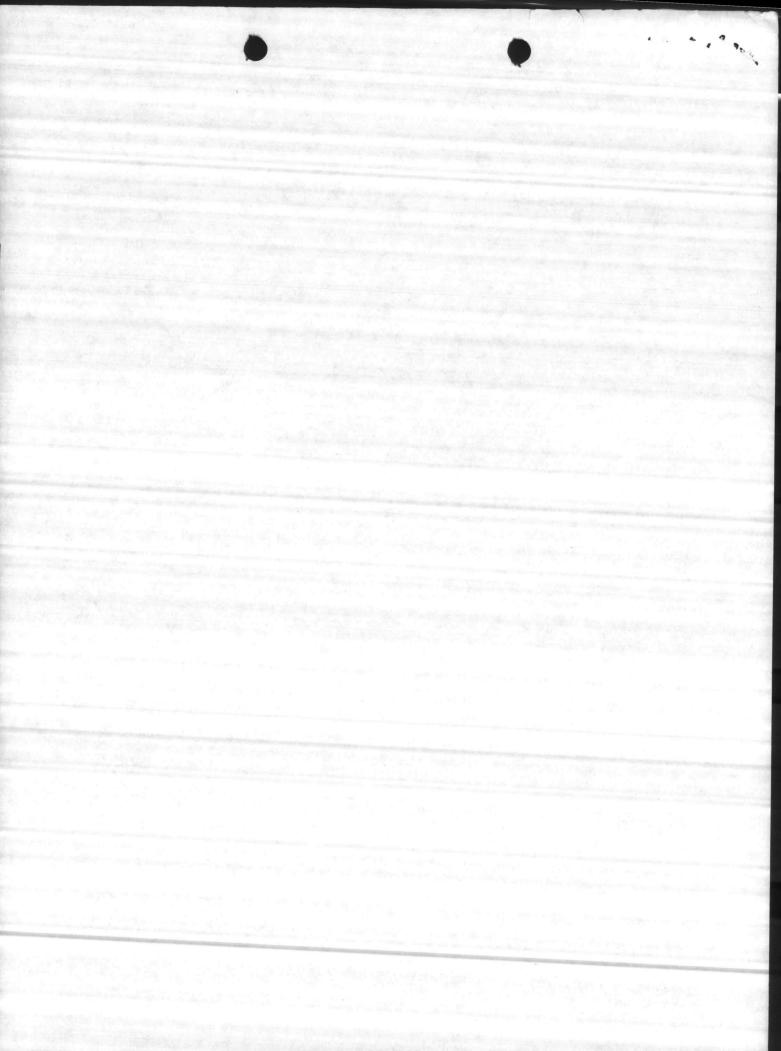
IMPACT IF NOT PROVIDED: Coal cannot be stored at the Central Heating Plant after 1 July 1982 if the runoff facility is not provided. This will result in having to use oil, a scarce resource, at the Central Heating Plant instead of cheaper and more abundant coal.



| 1. COMPONENT                     | FY 1980 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE<br>10 Mar 198 |
|----------------------------------|--|-----------------------|
| 3. INSTALLATION A                | BASE, CAMP LEJEUNE, NORTH CAROLINA 28542   |                       |
| 4. PROJECT TITLE<br>COAL YARD CO | LLECTOR BASIN                              | ECT NUMBER            |

#### FACILITY STUDY

- 1. Project: The project provides the means to control the runoff of water from the coal pile at the Central Heating Plant, Building 1700, MCB, Camp Lejeune, as required by NPDES wastewater permit. The basin, pumps, and associated piping will provide the means for treatment of the runoff before it is pumped into the sanitary sewer system.
- 2. Current and Planned Future Workload with Regard to This Project: Over one billion pounds of steam is produced each year at the Central Steam Plant. Ninety percent of this steam is produced from coal stored at this facility. The requirement for coal to be stored at this facility is expected to continue through the life of the proposed project.
- Description of Proposed Construction:
  - a. Type of Construction: Permanent.
  - b. Replacement: Not applicable.
  - c. Description of Work to be Done:
- (1) Primary Facility: This project will consist of the construction of a concrete settling basin, curbing, piping between the basin and sanitary sewer lines, and pumping facilities.
- (2) Energy Conservation: Although the proposed project will not directly contribute to any savings in energy, it will indirectly contribute to the conserving of millions of gallons of oil yearly by allowing coal to be stored and burned at the Central Steam Plant, instead of oil.
  - (3) Collateral Equipment: Not applicable.
- 4. Cost Estimate: Area Construction Index is 0.84; contingency factor to be utilized is 5 percent. The data is applicable to FY 1980. Cost data derived from cost estimate for MCAS Cherry Point Coal Yard Project, 78-B-3386.
- 5. Justification for Project and Scope of Project:
  - a. Justification for Project:
- (1) Project: The proposed project will provide for a coal pile runoff collection basin along with associated pumps and piping.



| 1. COMPONENT      | .00         |               |            | DO IFOT | DATA     | 2. DATE<br>10 Mar 1980 |
|-------------------|-------------|---------------|------------|---------|----------|------------------------|
|                   | FY 1980 N   | MILITARY CONS | TRUCTION P | ROJECT  | DATA     | 10 Mar 1900            |
| 3. INSTALLATION A | ND LOCATION | the special   |            |         | de de .  |                        |
| MARINE CORPS      | BASE, CAMP  | LEJEUNE, NORT | H CAROLINA | 28542   |          |                        |
| 4. PROJECT TITLE  |             |               |            |         | 5. PROJE | ECT NUMBER             |
| COAL YARD COI     | LECTOR BAS  | IN            |            |         |          |                        |

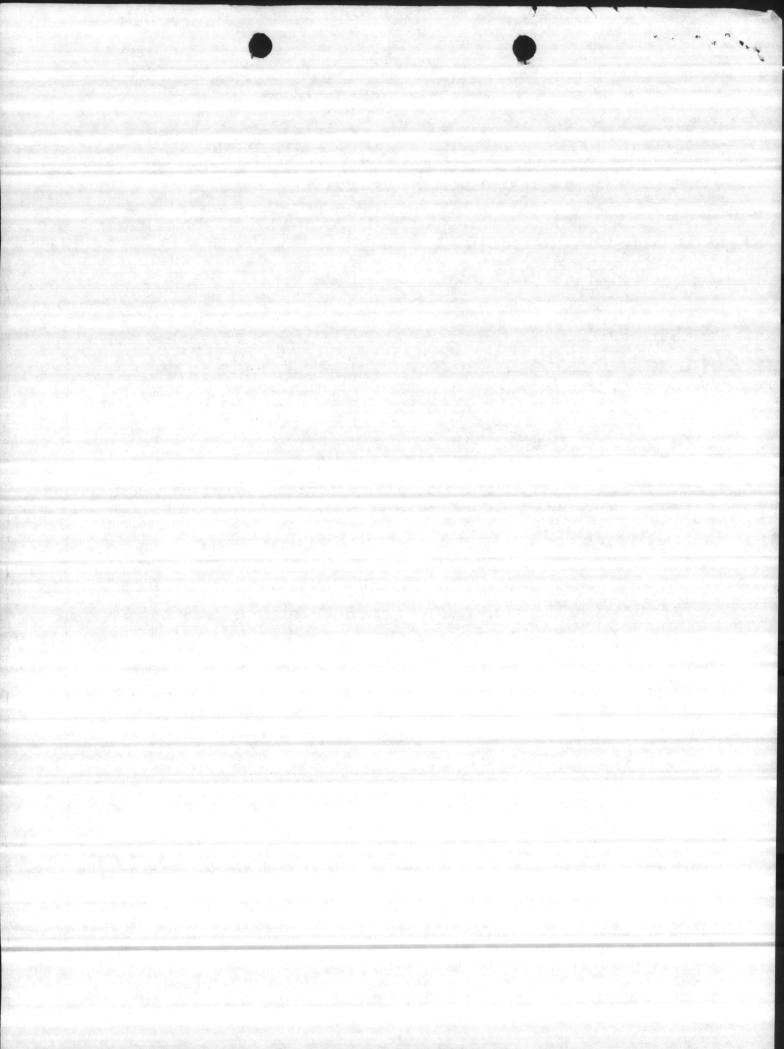
- (2) Requirement: National Pollutant Discharge Elimination System (NPDES) wastewater discharge permit NC0003239 requires that a runoff collection facility be constructed and in operation by 1 July 1982, in order for coal to be stored at the Central Heating Plant.
- (3) Current Situation: No means of collecting and treating the coal pile runoff is presently available.
- (4) Impact if Not Provided: The coal pile runoff will continue to empty untreated into drainage ditches and the surrounding environment. Oil, a scarce energy resource will have to be burned at the plant, since coal cannot be stored at the plant without the construction of a runoff treatment facility.
- b. Justification for Scope of Project: The scope of the project is the minimum that will satisfy the requirements of the NPDES permit.
- 6. Equipment Provided from Other Appropriations: None
- 7. Common Support Facilities: There are no common support facilities available that can satisfy the requirements for the proposed project.
- 8. Effect on Other Resources:
- a. The facility will require approximately \$2000 per year in increased funding for utilities services and operations.
  - b. No additional personnel will be required to operate this facility.

### UTILITY REQUIREMENTS

a. Electricity will be the only energy requirement for the facility.

Consumption 70,000 KWHR/yr 8 KW Peak Demand Average Demand

- 9. Siting of the Project: See enclosure
- 10. Other Graphic Presentations, including Photographs: None.
- 11. Economic Analysis: The proposed project produces no direct economic benefits, but rather, is required to comply with environmental regulations. However, the construction of the project will provide indirect benefit, since complying with the environmental regulations will allow burning of coal, a

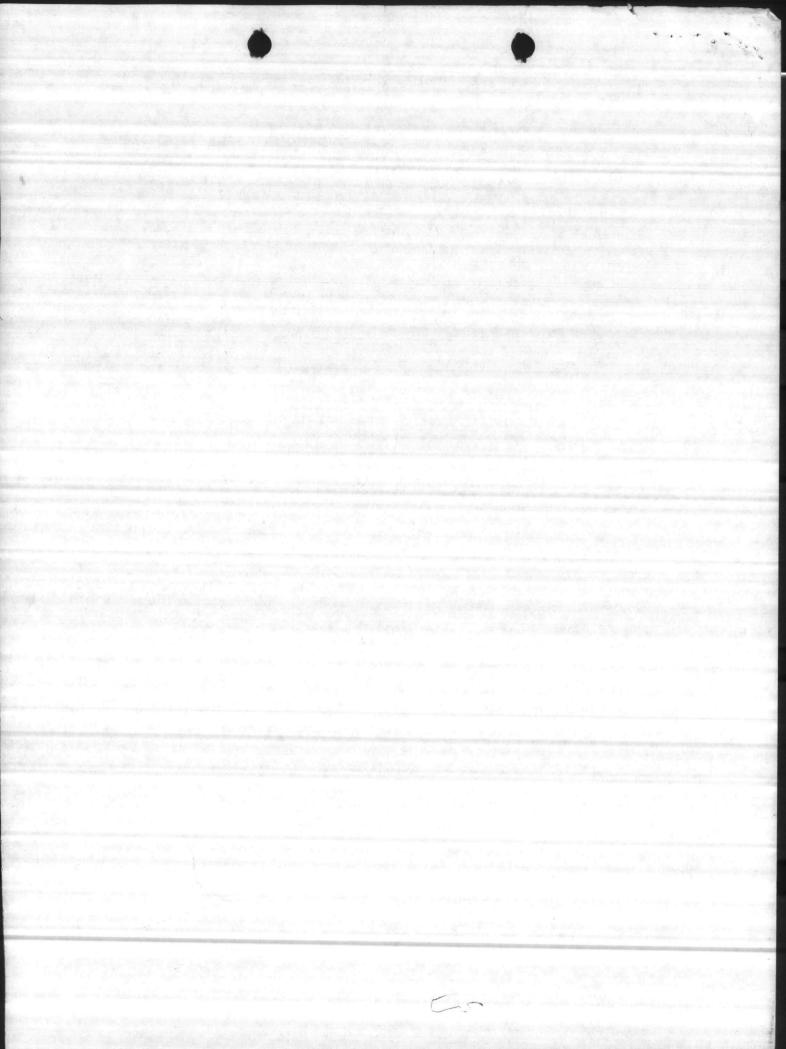


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| 1. COMPONENT         |  | 2. DATE     |
| and professional and | FY 1980 MILITARY CONSTRUCTION PROJECT DATA                   | 10 Mar 1980 |
| 3. INSTALLATION A    | ND LOCATION  |             |
| MARINE CORP          | S BASE, CAMP LEJEUNE, NORTH CAROLINA 28542                   |             |
| 4. PROJECT TITLE     | 5. PROJ  | ECT NUMBER  |
| COAL YARD C          | OLLECTOR BASIN   |             |

cheaper, more readily available fuel instead of scarce, expensive oil.

#### 12. Environment Impact:

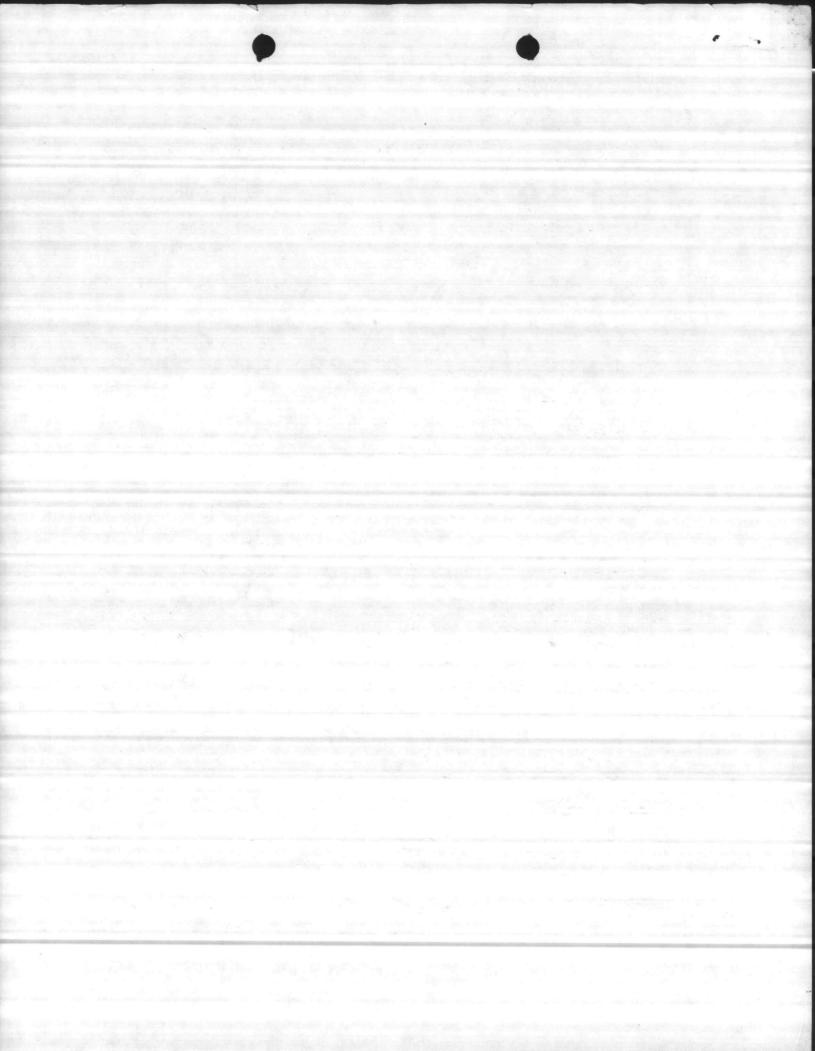
- a. Existing Evnironment of Proposed Site: The proposed site is in an industrial environment adjacent to the Central Heating Plant.
- b. Relationship of Proposed Action to Land Use Plans, Policies, and Controls for the Affected Area: The proposed action will help bring the base into compliance with NPDES wastewater regulations.
- c. Probable Impact of the Proposed Action on the Environment: The proposed action will have a positive impact since runoff that is presently untreated will be collected, suspended solids will be reduced to below 50 mg/l in the runoff, and then emptied into the sanitary sewer system.
  - d. Alternatives: None
- e. Any Probable Adverse Environmental Effects Which Cannot be Avoided Should the Proposal be Implemented: No adverse environmental effects.
- f. Relationship Between Local Short Term Use of Man's Environment and the Maintenance and Enhancement of Long-Term Productivity: The construction of the proposed facility will help to immediately reduce pollution from coal pile runoff, and, in the long term provide for gradual improvement of the environment from effects of past pollution from untreated runoff from the coal pile.
- g. Any Irreversible and Irretrievable Commitments of Resources that Would Be Involved in the Proposed Action Should It Be Implemented: Not applicable.
- h. Considerations that Offset Adverse Environmental Effects: No adverse effects are attributable to the proposed project.
- 13. Quantitative Data: Not applicable.



PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT MCON PROJECT P-780, SEWERAGE SYSTEM

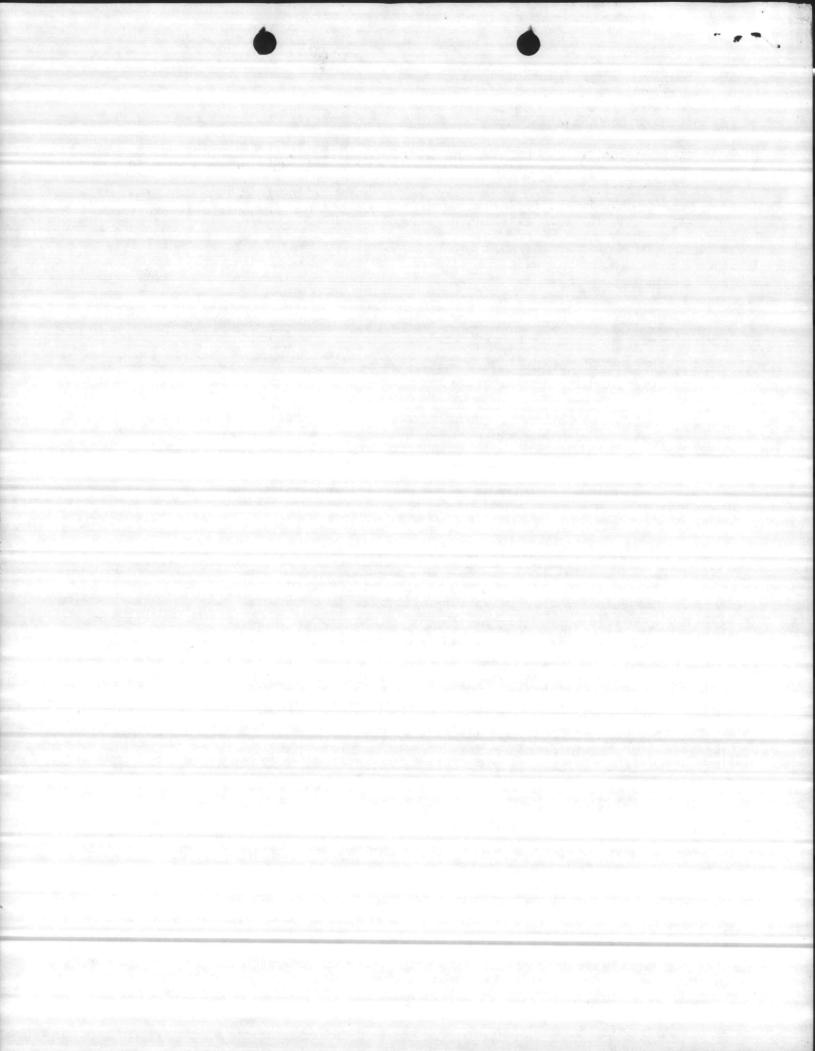
Prepared by:

Mr. T. Hatcher Utilities Division Base Maintenance Department 24 July 1981

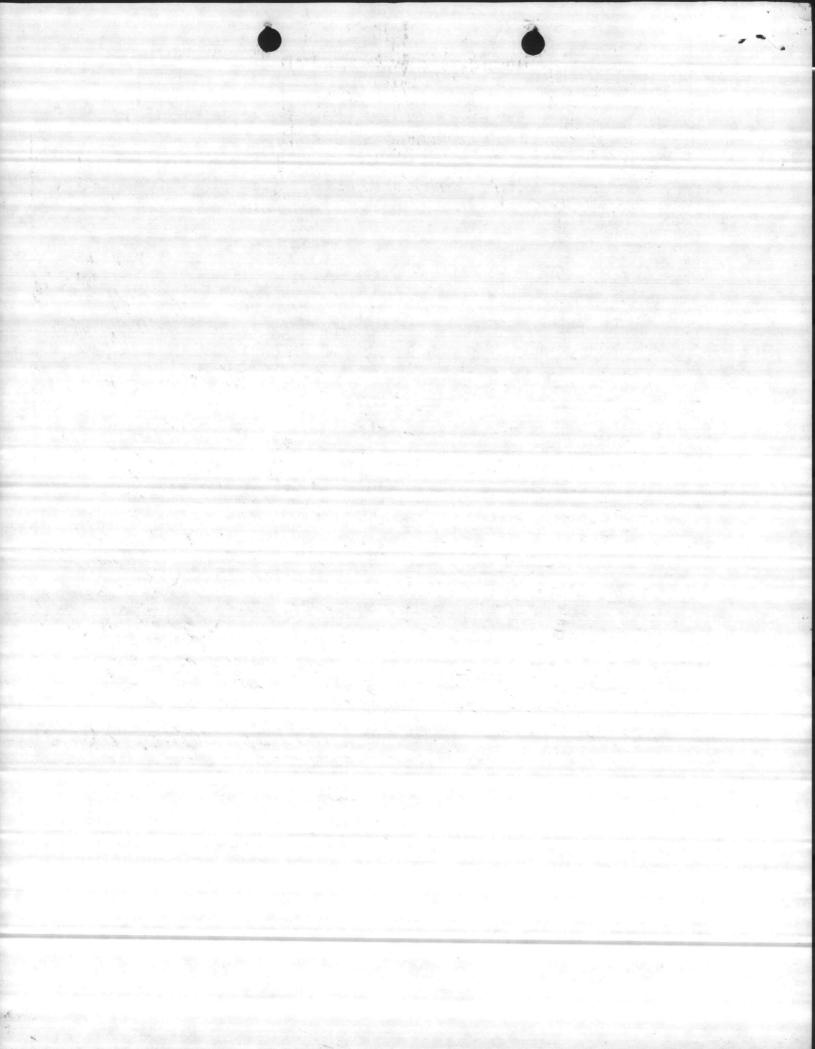


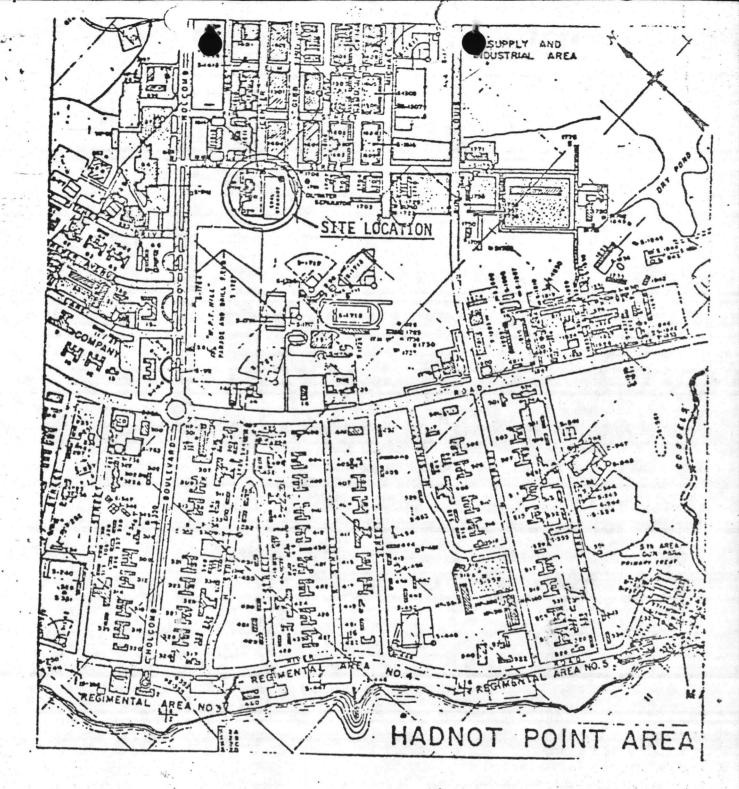
# 1. Action/Project Description

- a. <u>Project Description</u>. This project will provide means to control the runoff of water and associated suspended solids from the coal pile storage area at the Central Steam Plant, as well as provide a stack monitoring system for the electrostatic precipitators at the plant to ensure compliance with air quality permit regulations.
- 2. Consideration of Alternatives and Site Selection. The coal pile storage area at the plant is an existing facility located by necessity adjacent to the plant utilizing the stored coal. The plant is located in the industrial area of Hadnot Point, and conforms well to the environment of this area. Relocation is not considered to be practical, and, accordingly, no alternatives were evaluated.
- 3. Compliance with Federal, State and Local Environmental Regulations and Guidelines.
  - a. Endangered Species. Not applicable.
- b. <u>Clean Water Act</u>. This project will have a significant beneficial impact on water quality since suspended solids in runoff water will be removed, and will no longer be allowed to flow into storm sewers and drainage ditches. The treated runoff water will be pumped into the sanitary sewer system for further treatment at the Hadnot Point Sewage Treatment Plant.
- c. Clean Air Act. This project will allow for monitoring of particulate emissions at plant stacks to ensure that plant emissions do not exceed allowable permit limits.
- d. <u>Coastal Zone Management Act</u>. There is no direct or indirect impact on tidal marshes, beaches, or other protected areas.
- e. <u>Archaeological and Historic Preservation Act</u>. The project site is in an existing industrial area that has previously been subjected to excavation. No archaeological or historic impact is expected.
- f. North Carolina Erosion and Sedimentation Regulations. As discussed in 3(b) above, this project will decrease the potential for sediment leaving the site.
- g. <u>Hazardous Materials and Hazardous Waste Disposal</u>. No hazardous materials are expected to be generated by this project. The requirements of B.O. 11090.1B will be followed in all cases.
  - h. Protection of Wetlands, Executive Order 11990. Not applicable.
- i. Sanitary Waste and Refuse Disposal. Refuse generated during construction will be collected by using personnel and disposed of at an approved refuse container or the sanitary landfill.
- j. <u>Discuss Other Regulations Applicable</u>. The proposed action does not involve any environmental regulations other than those discussed above.



- k. Permit Requirements. None.
- 1. Site Map. See Appendix A.
- 4. How Does the Proposed Action Impact on Other Base Functions and Missions?
- a. The project will not impact other base functions and missions. The project is consistent with the existing Master Plan and projected use of the surrounding area.





SITE LOCATION FOR P-780, APPENDIX A

