

6300 SAMPLE RD

02307101

12/17/07

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

23AB / 8/29A

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

Pd 200.00 CHK 9/1/92 ERM

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
700 N. Tryon St.
Charlotte, NC 28202

(704)336-5102

PERSON FILING APPLICATION:

NAME: MORTON (last) DAVID (first) K. (mi)

ADDRESS: 700 N. TRYON ST. PHONE: (704) 336-3871

CITY: CHARLOTTE STATE: NC ZIPCODE: 28202

Date: AUGUST 17, 1992

PROPERTY INFORMATION (FROM ENGINEERING FORM):

TAX/PARCEL NUMBER: 023-071-01

STREET ADDRESS: 6300 SAMPLE Rd.

ZONING: R-R

PROPERTY OWNER:

NAME: MECKLENBURG COUNTY (last) (first) (mi)

ADDRESS: 700 N. TRYON ST. PHONE: (704) 336-3871

CITY: CHARLOTTE STATE: NC ZIPCODE: 28202

SUBDIVISION OR MOBILE HOME PARK NAME: LATTA PLANTATION PARK

Township (check one):
[X] 0 Mecklenburg County [ ] 2 Davidson [ ] 4 Pineville [ ] 6 Huntersville
[ ] 1 Charlotte [ ] 3 Cornelius [ ] 5 Matthews [ ] 7 Mint Hill

LOT NUMBER: LOT SIZE (in acres):

TYPE APPLICATION (check one):

[ ] SOIL TEST - INDIVIDUAL LOT (D)
[X] NEW CONSTRUCTION ON VACANT LOT - 4 BEDROOMS OR LESS (N)
[ ] EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
[ ] ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A or M)
[ ] COMMERCIAL OR INDUSTRIAL (N)
[ ] SOIL TEST DEVELOPMENT (P)
[ ] ADDITION - GARAGE OR RENOVATION/NO MAJOR CHANGES (X)
[ ] MODIFIED /ALTERNATIVE/ OR RESIDENCE > 4 BEDROOMS (Z)
[ ] REPAIR TO SYSTEM (R)

RESIDENTIAL PROPERTY (Type Building, check one):
[ ] SINGLE MOBILE HOME (S) [X] HOUSE (H) [ ] MULTIPLE FAMILY (U)
[ ] DOUBLE WIDE (D) [ ] MODULAR HOME (M) [ ] OTHER _____ (O)

NUMBER BEDROOMS: 3 NUMBER OCCUPANTS: 4

SYSTEM CLASSIFICATION: GRAVITY ABSORPTION FIELD

COMMERCIAL/INDUSTRIAL PROPERTY:
Type Business _____ # Employees ___ Per Shift ___ ___ ___
Industrial Wastes (Y/N) ___
Underground Storage Tanks On Property (Y/N) ___ Type _____

WATER SUPPLY (check one):
[ ] Community (C) [ ] Shared Well (S)
[ ] Municipal (N) [ ] Other 'spring' (O)
[X] Private Well (P)

FUTURE ADDITIONS - ALL PLANNED ADDITIONS MUST BE ENTERED (check all that apply):
[ ] Swimming Pool [ ] Jacuzzi [ ] Stable/Barn [ ] Workshop [ ] None
[ ] Garage [ ] Storage Building [ ] Deck/Patio [ ] Bedrooms [ ] Other

The undersigned, owner, or legal agent for the owner, of the property described above as the "JOB LOCATION" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the MECKLENBURG COUNTY HEALTH DEPARTMENT to enter onto the property for the purpose of processing this request.

Signed: David Morton Date: AUGUST 17, 1992

NOTICE:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws And Rules for Sanitary Sewage Collection, Treatment And Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

...No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair approval is granted by this Department.

...This permit is not transferable.

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[ ] IMPROVEMENT PERMIT - VALID 60 MONTHS FROM ISSUANCE
[ ] MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE
[ ] ADDITION/RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE

Environmentalist Date

Director or Authorized Section Head 9-21-92 Date

WATER : 122791

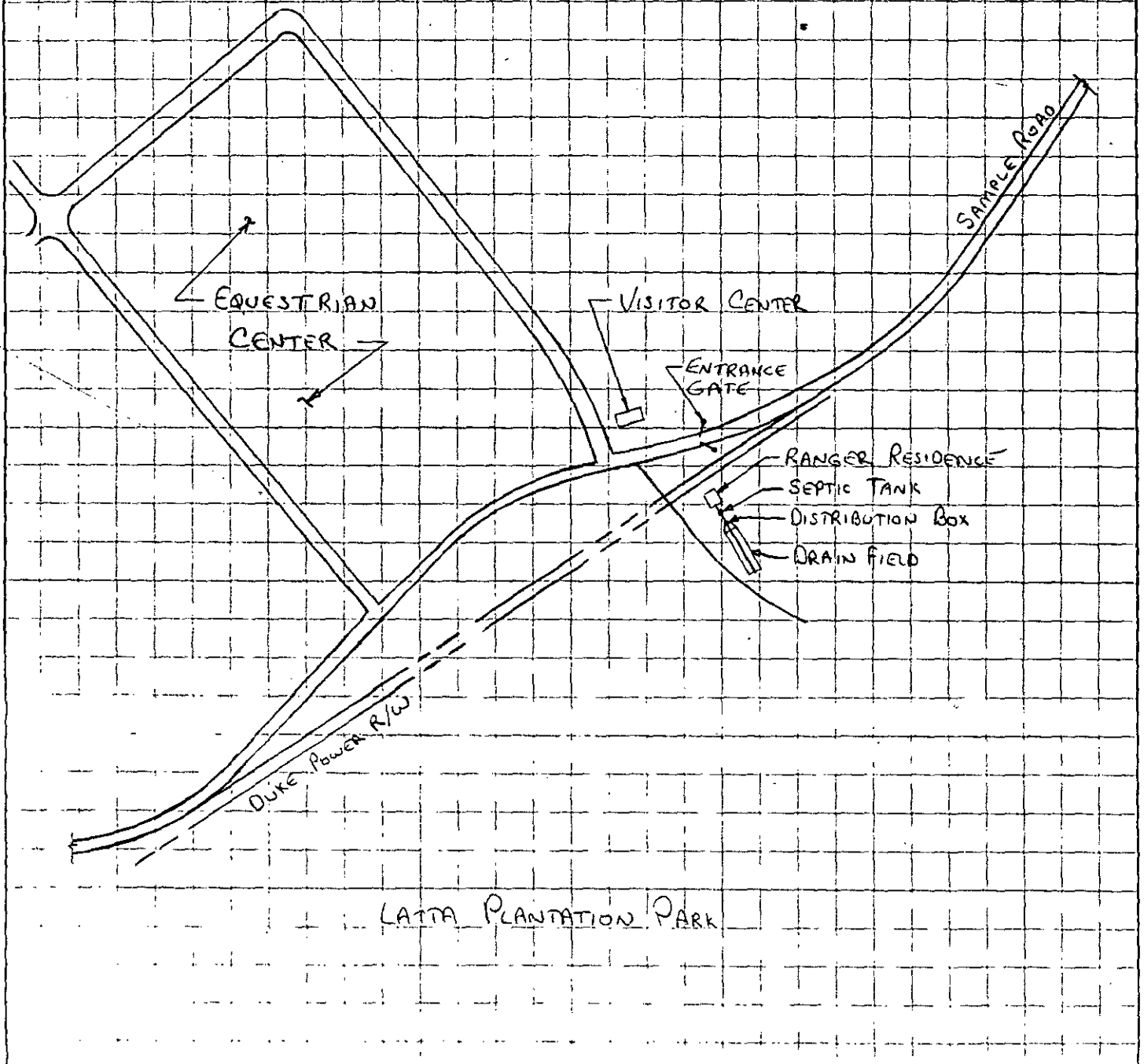
PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 237B / 8129A

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries, proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



APPROVAL DATE _____

CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

FILE: 8129A DATE: 1/11/94

TC: 023 071 01 ☒ L ☒ CRT

SERIAL Nº 15381

Name of Owner Meck Co. Park & Rec Juris.:

Address of Property 6300 Sample Rd

Inspection Data:

Tank Material PCC

Total Length of Drainfield 400'

Number of Lines 4 @ 100'

Cover Depth 8" - 14"

Water Supply Source well

Distance to Water Source > 100'

Excavation Inspected 1/11/94

Tank(s) Inspected 1/11/94

Wash Line Inspected –

High Water Alarm Inspected –

PLOT

Design: 1994, 1500ST, CON, 1200SFT, 12" stone ceci.l CTR# Meck Co. Eng dept

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☒ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☒ as detailed in the plot above

and meets the provisions of 10 NCAC 10A .1900, "Laws And Rules For Sanitary Sewage Collection, Treatment, And Disposal" in effect on the date of issuance of the permit. The issuance of this

☒ Certificate of Completion ☐ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 10 NCAC 10A .1900 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

COMMENTS: System designed for caretaker residence

Type III

T. Walker R.S. for S. Daniel 1/11/94

Philo S. Walker R.S.
Environmentalist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR PERMIT

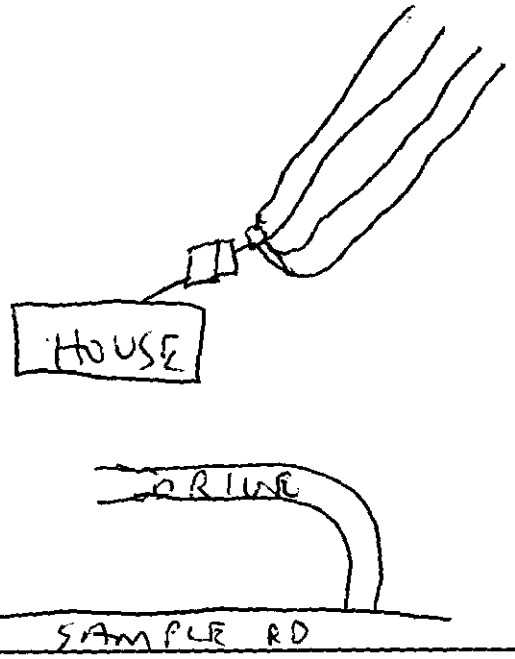
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

FILE: 8129-A DATE: 1-10-94

TC: 023-071-01

SERIAL Nº 15688

Permission is hereby given to ✓ Install or Construct, _____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated _____. All work shall be completed on or before _____, after which date this permit shall be null and void. The system shall meet all of the construction requirements of 10 NCAC 10A .1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.



PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank — gallons

Tank Construction PCC

Absorption and/or Nitrification Lines:

Trench Width 3 feet

Total Line Length 400' feet

Number of Lines 4 x 100'

Depth of Stone 12" inches

Distance from House 5'+ feet

Distance from Property Line 10'+ feet

Distance from Well 100'+ feet

NAME OF OWNER MECK CO. PARK & REC

LOCATION OF PROPERTY 6300 SAMPLE RD

Comments: 4 lines @ 100' leng x 3' wide x 12" rock

Division or Section Head

Environmentalist

* If this permit is for the installation or construction of a new system, it must be signed by the division or a section head of the Mecklenburg County Health Department in order to be valid. Only the signature of the Environmentalist is required where an existing system is being altered or repaired.

WHITE - HEALTH DEPARTMENT'S COPY • CANARY - ENVIRONMENTALIST'S COPY • PINK - OWNER OR AGENT'S COPY

Mecklenburg County
Health Department

March 30, 1992

Mecklenbury County
700 N. Tryon Street
Charlotte, NC 28202

RE: Property located on 6300 Sample Road
FILE: 8129A (237B)
PARCEL: 023-071-01

Dear Mr. Morton:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The property was found to contain a limited area of soils which were classified as PROVISIONALLY SUITABLE for such an installation. A copy of the Site Evaluation Report (Serial Number 12570) is enclosed for your information.

While this classification indicates the site is acceptable for the installation of a septic tank system, no specific system or plans have been approved. The area available for such an installation may impose limitations on the size and/or type construction permitted on the lot. Specific plan approval will be provided upon submission of an Application for an Improvement Permit with an **ACCURATELY** dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems and determination that the area is adequate to accommodate the proposed construction.

Please note that this classification may be revoked if any filling, grading or construction (including the drilling of a well) is performed on the lot which in the opinion of this department renders any area previously designated suitable for system installation, unsuitable. Furthermore, this approval may be revoked should any changes occur in the regulations under which it was granted, if such changes would have prevented its approval had they been in effect on the date of issuance.

If there are any questions concerning this matter, please contact me at 336-5573.

Sincerely,

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems
GW:lw

Enclosure

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
SITE EVALUATION REPORT
SERIAL NUMBER 12570

File: 8129 A / 237 B Action 1

Parcel: 023-071-01 PC

Location: 6300 SAMPLE ROAD

Subdivision:

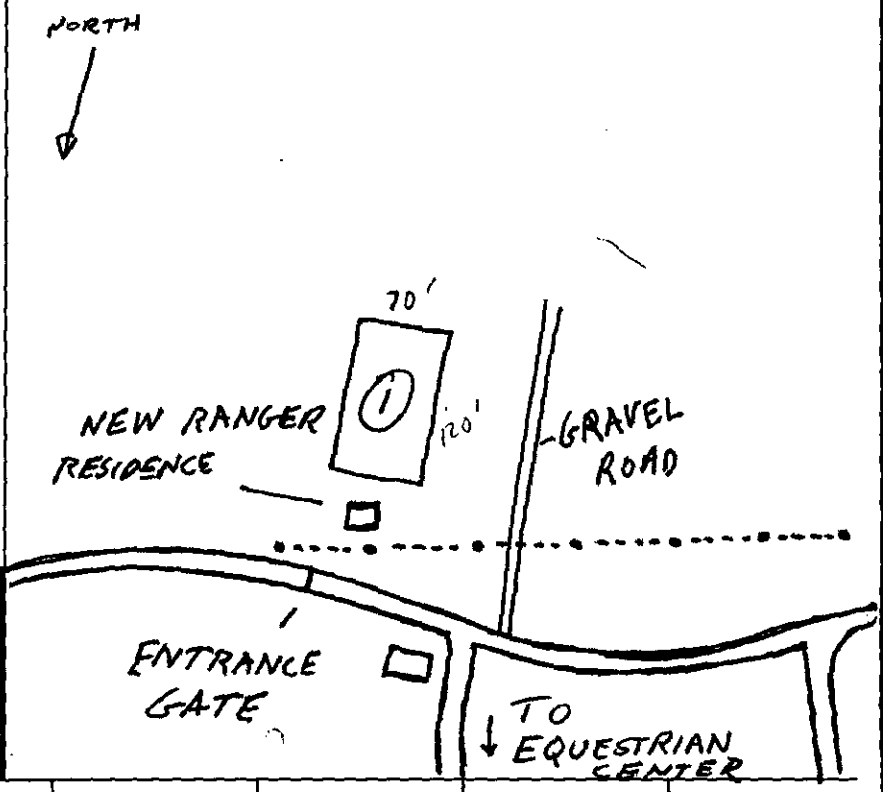
Lot: Block: Acres: ≈ 1.0

Owner: MECKLENBURG COUNTY
Address: 700 N. TRYON ST
CHARLOTTE NC 28202
ATTN: DAVID MORTON

Comments: Application rate .3gpd/ft²

Described by: Wally Randall

Date: 3-2-92



***** EVALUATION KEY *****

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U SLIGHTLY EXPANSIVE CLAY	S PS U	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U SUB ANGULAR BLOCKY	S PS U	S PS U	S PS U	S PS U	S PS U
Drainage	(S) PS U >40"	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	(S) PS U >48"	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S PS U NONE	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	CECIL					
Area Classification	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
SITE EVALUATION REPORT
SERIAL NUMBER [illegible]

File: [illegible] Action 1

Parcel: [illegible] RC

Location:

Subdivision:

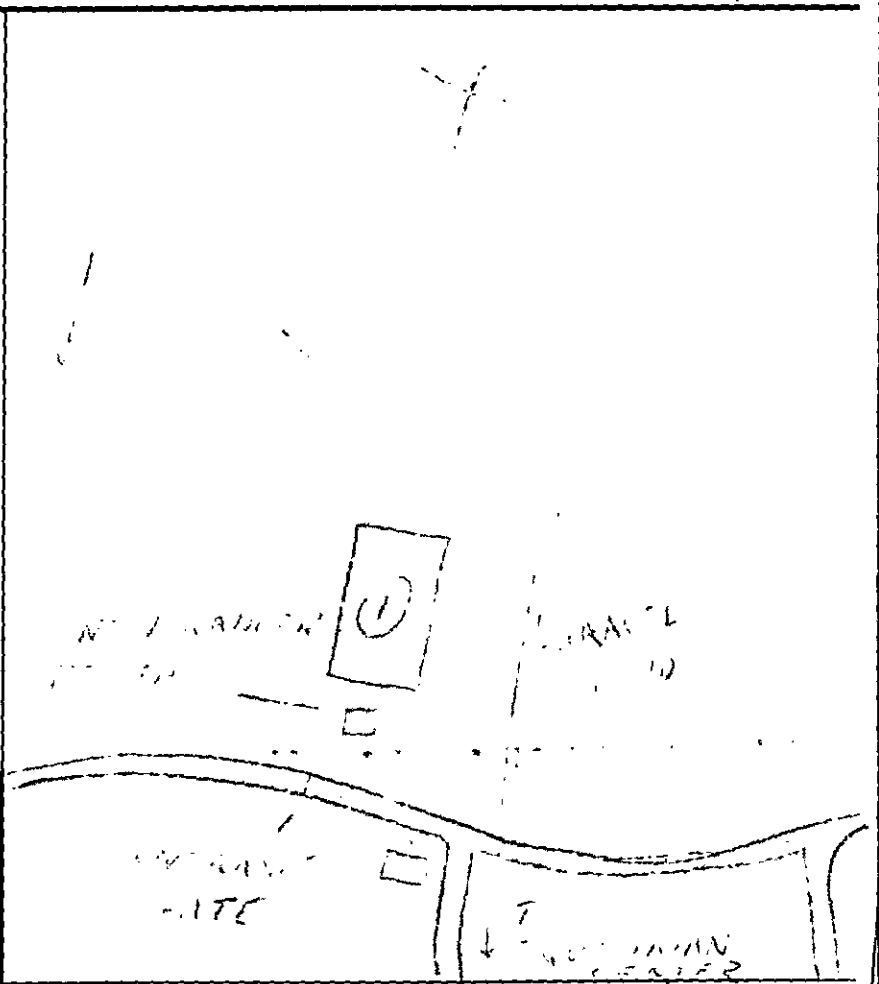
Lot: Block: Acres:

Owner:
Address:

Comments: _____

Described by: _____

Date: _____



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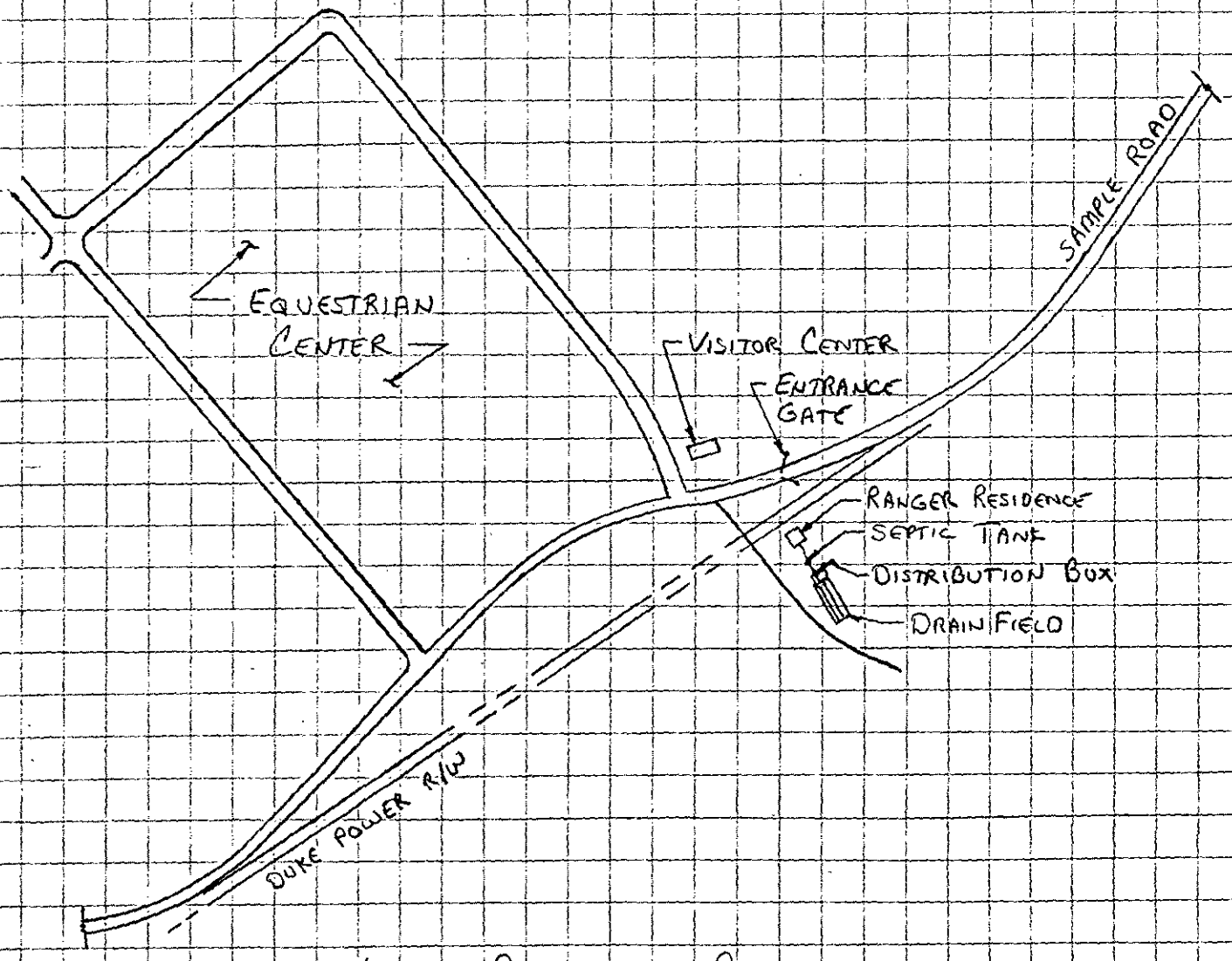
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700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: _____

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries, proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



APPROVAL DATE _____

White - Health Department's Copy Canary - Environmentalist's Copy Pink - Owner's Copy

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

[] CRT

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
700 N. Tryon St.
Charlotte, NC 28202

(704)336-5102

PERSON FILING APPLICATION:
NAME: MORTON (last) DAVID (first) K (mi)
ADDRESS: 700 N. TRYON ST. PHONE: (704) _____
CITY: CHARLOTTE STATE: NC ZIPCODE: 28202

Date: MARCH 3, 1992

PROPERTY OWNER:
NAME: MECKLENBURG (last) COUNTY (first) (mi)
ADDRESS: 700 N. TRYON ST. PHONE: (704) 336-3871
CITY: CHARLOTTE STATE: NC ZIPCODE: 28202

PROPERTY INFORMATION (FROM ENGINEERING FORM):
TAX/PARCEL NUMBER: 023-071-01
STREET ADDRESS: 6300 SAMPLE ROAD
ZONING: R-R

Township (check one):
[X] 0 Mecklenburg County [] 2 Davidson [] 4 Pineville [] 6 Huntersville
[] 1 Charlotte [] 3 Cornelius [] 5 Matthews [] 7 Mint Hill

SUBDIVISION OR MOBILE HOME PARK NAME: CATTA PLANTATION PARK

LOT NUMBER: LOT SIZE (in acres):

TYPE APPLICATION (check one):
[X] SOIL TEST - INDIVIDUAL LOT (D)
[] NEW CONSTRUCTION ON VACANT LOT - 4 BEDROOMS OR LESS (N)
[] EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
[] ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A or M)
[] COMMERCIAL OR INDUSTRIAL (N)
[] SOIL TEST DEVELOPMENT (P)
[] ADDITION - GARAGE OR RENOVATION/NO MAJOR CHANGES (X)
[] MODIFIED /ALTERNATIVE/ OR RESIDENCE > 4 BEDROOMS (Z)
[] REPAIR TO SYSTEM (R)

RESIDENTIAL PROPERTY (Type Building, check one):
[] SINGLE MOBILE HOME (S) [X] HOUSE (H) [] MULTIPLE FAMILY (U)
[] DOUBLE WIDE (D) [] MODULAR HOME (M) [] OTHER _____ (O)

NUMBER BEDROOMS: 3 NUMBER OCCUPANTS: 4
SYSTEM CLASSIFICATION: GRAVITY ABSORPTION FIELD

COMMERCIAL/INDUSTRIAL PROPERTY:
Type Business _____ # Employees ___ Per Shift ___ ___ ___
Industrial Wastes (Y/N) ___
Underground Storage Tanks On Property (Y/N) ___ Type _____

WATER SUPPLY (check one):
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FUTURE ADDITIONS - ALL PLANNED ADDITIONS MUST BE ENTERED (check all that apply):
[] Swimming Pool [] Jacuzzi [] Stable/Barn [] Workshop [] None
[] Garage [] Storage Building [] Deck/Patio [] Bedrooms [] Other

The undersigned, owner, or legal agent for the owner, of the property described above as the "JOB LOCATION" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the MECKLENBURG COUNTY HEALTH DEPARTMENT to enter onto the property for the purpose of processing this request.

Signed: David K Morton Date: 3-3-92

NOTICE:

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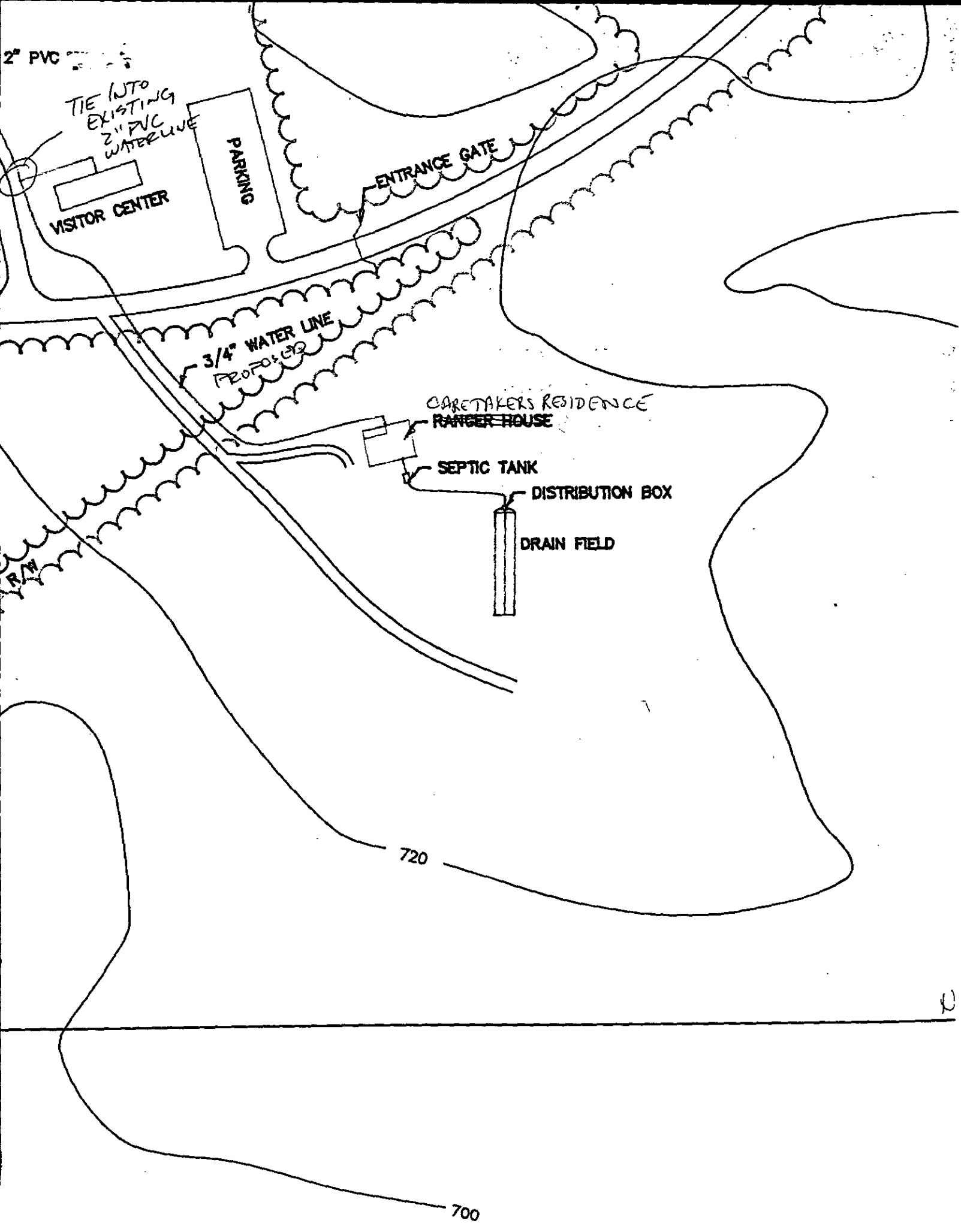
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Environmentalist Date

Director or Authorized Section Head Date

MWATER : 122791


2" PVC
TIE INTO EXISTING 2" PVC WATERLINE
VISITOR CENTER
PARKING
ENTRANCE GATE
3/4" WATER LINE PROPOSED
CARETAKERS RESIDENCE
~~RANGER HOUSE~~
SEPTIC TANK
DISTRIBUTION BOX
DRAIN FIELD
R/W
720
700

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

8129 AC 23 B

[ ] CRT

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(704)336-5102

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WWATER : 122791

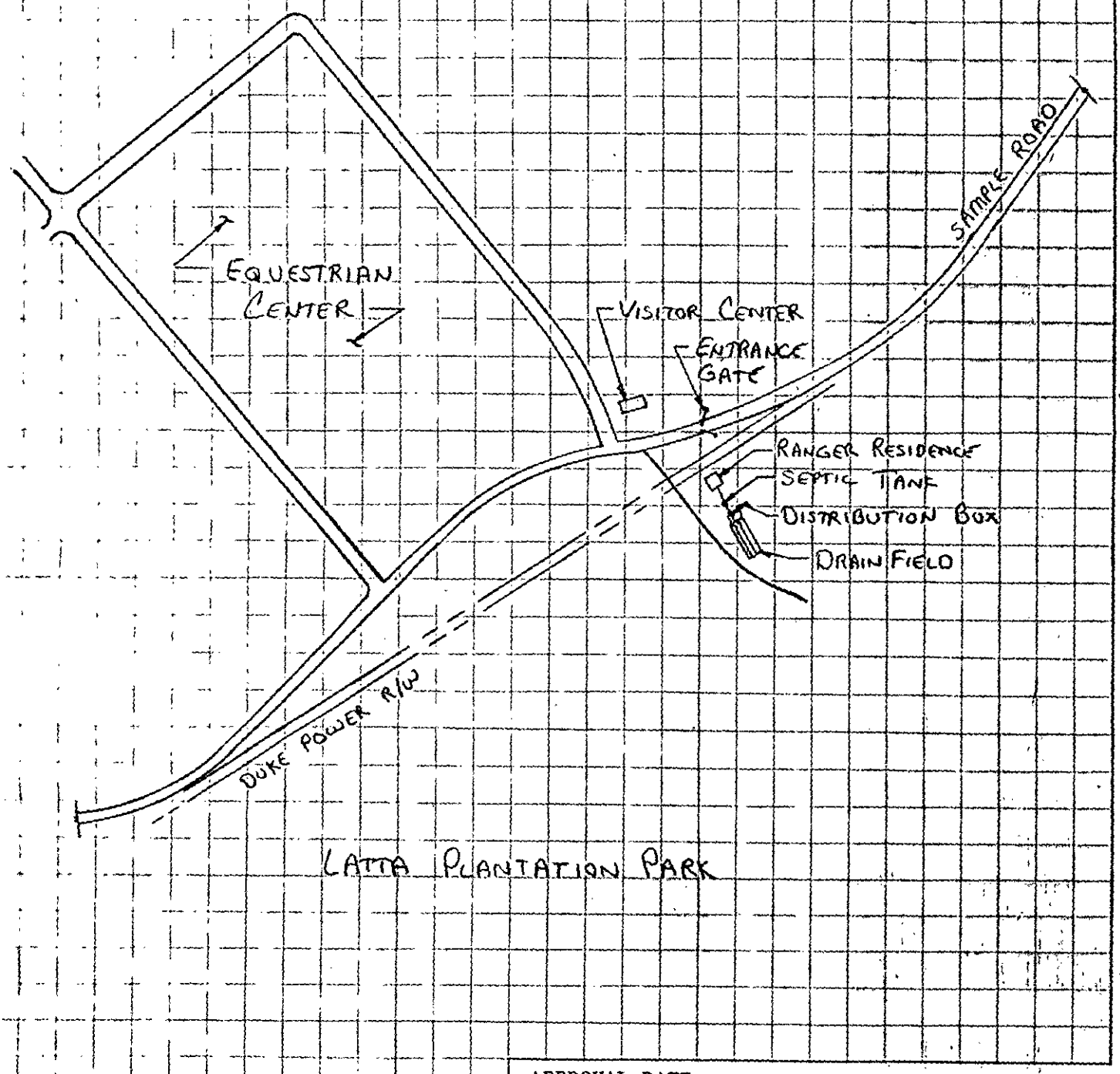
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ENVIRONMENTAL HEALTH DIVISION
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PHONE (704) 336-5102

FILE: 8129A(237B)

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APPROVAL DATE _____

White - Health Department's Copy Canary - Environmentalist's Copy Pink - Owner's Copy

Mecklenburg County
Health Department

March 30, 1992

Mecklenbury County
700 N. Tryon Street
Charlotte, NC 28202

RE: Property located on 6300 Sample Road
FILE: 8129A (237B)
PARCEL: 023-071-01

Dear Mr. Morton:

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If there are any questions concerning this matter, please contact me at 336-5573.

Sincerely,

Kelly Randall

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems
GW:lw

Enclosure

Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
SITE EVALUATION REPORT
SERIAL NUMBER № 12570

File: 8129 A / 237 B Action 1

Parcel: 023-071-01 ☐ PC

Location: 6300 SAMPLE ROAD

Subdivision:

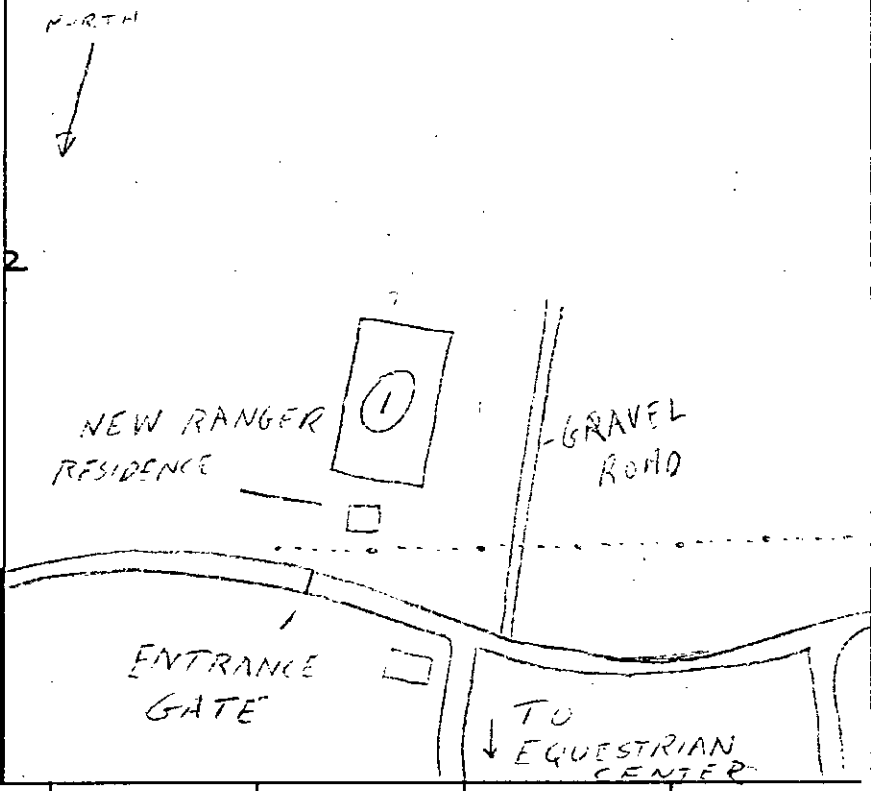
Lot: Block: Acres: ± 1.0

Owner: MECKLENBURG COUNTY
Address: 700 N. TRYON ST
CHARLOTTE NC 28202
ATTN. DAVID MORTON

Comments: Application rate .3gpd/Ft²
LONG TERM ACCEPTANCE RATE
Kelly Rwall 5-15-92

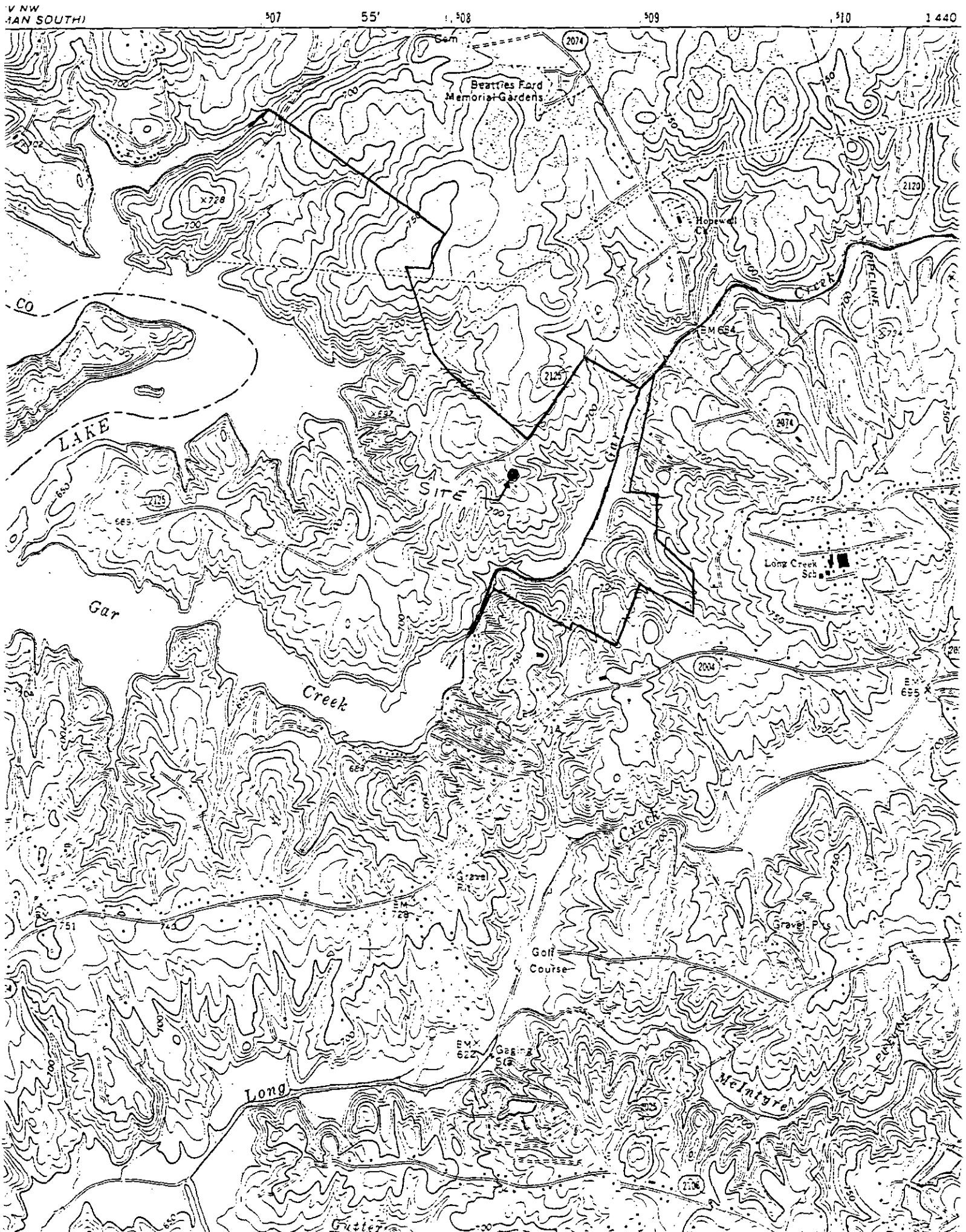
Described by: [illegible]

Date: 3-2-92



*** EVALUATION KEY ***
S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U SLIGHTLY EXPANSIVE CLAY	S PS U	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U SUB ANGULAR BLOCKY	S PS U	S PS U	S PS U	S PS U	S PS U
Drainage	(S) PS U >48"	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	(S) PS U >48"	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S PS U NONE	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U —	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	CECIL					
Area Classification	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U


Beatties Ford
Memorial Gardens
Hopewell Ch
Creek
PIPELINE
EM 684
LAKE
SITE
Gar
Creek
Lonz Creek Sch
Gravel Pit
Golf Course
Gravel Pit
Creek
McIntyre
Long
Gutter

RECEIVED DEHNR-DEM-WQ PERMITS & ENGIN. UNIT 92 MAY 21 AM 11:22 WQ0006628

PERMITS & ENGIN. UNIT 92 JUL -7 AM 10:47

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Non-Discharge Permit Application
(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

SEPTIC TANK / LOW PRESSURE PIPE / GRAVITY SUBSURFACE DISPOSAL SYSTEMS

[FOR MECHANICAL TREATMENT SYSTEMS WITH SUBSURFACE DISPOSAL USE FORM MTDS]

(THE DIVISION OF ENVIRONMENTAL MANAGEMENT HAS JURISDICTION IF THE SYSTEM TREATS INDUSTRIAL WASTEWATER OR IF THE SYSTEM IS OWNED BY A SANITARY DISTRICT, A METROPOLITAN SEWAGE DISTRICT, A WATER & SEWER AUTHORITY, A COUNTY, A MUNICIPALITY, OR A PUBLIC UTILITY. THE DIVISION OF ENVIRONMENTAL HEALTH HAS JURISDICTION FOR OTHER DOMESTIC SUBSURFACE SYSTEMS)

I. GENERAL INFORMATION:

1. Applicant (corporation, individual, or other): Mecklenburg County

2. Print Owners or Signing Official's Name and Title (the person who is legally responsible for the facility and its compliance): Bobbie Shields
   Director of Engineering

3. Mailing Address: 700 North Tryon Street
   City: Charlotte State: NC Zip: 28202
   Telephone No.: (704) 336-2713

4. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans/specs., letters of flow acceptance, Operational Agreements, etc.):
   Latta Plantation Park Caretaker's Facility

5. Application Date: March 16, 1991 6. Fee Submitted: $ 240.00

7. County where project is located: Mecklenburg County

8. Address of treatment and subsurface facility: 6300 Sample Road
   Charlotte, NC

9. Latitude: N 589,550 ; Longitude: E 1,430,850 of subsurface fields

II. PERMIT INFORMATION:

1. **Permit No. (will be completed by DEM):** _____

2. Specify whether project is: __X__ new; _____ renewal*; _____ modification.
   *If renewal, complete only sections I, II, III and applicant signature (on pg.9). Submit only pgs. 1, 2, 9 (original and 3 copies of each). Engineer signature not required for renewal.

3. If this application is being submitted as a result of a renewal or modification to an existing permit, list the existing permit number __N/A__ and issue date __N/A__

4. Specify whether the applicant is __X__ public or _____ private.

5. Specify whether applicant is: _____ sanitary district; _____ metropolitan sewage district; _____ water & sewer authority; __X__ county; _____ municipality; _____ public utility; _____ other (explain) _____

III. INFORMATION ON WASTEWATER:

1. Nature of Wastewater: __100__ % Domestic; _____ % Commercial; _____ % Industrial; _____ % Other waste (specify): _____

2. Please provide a one or two word description specifying the origin of the wastewater, such as school, subdivision, hospital, commercial, industrial, apartments, etc.:
   Caretaker's Residence

3. If wastewater is not domestic in nature, what level of pretreatment has been provided to ensure protection of the receiving treatment system: N/A

4. Volume of wastewater generated by this project: 360 gallons per day

5. Explanation of how wastewater volume was determined: Based on an average daily flow of 120 gal/day/bedroom for the three (3) bedrooms for the facility.

6. Brief project description: Residence of the Caretaker for Latta Plantation Park.

There may be questions on this application that are not applicable to the subject project, such as questions aimed at low pressure systems vs. gravity systems. In those instances state not applicable or N/A; however, be certain that all pertinent questions have been answered or the application package will be returned as incomplete.

IV. DESIGN INFORMATION:

1. Specify the type of system that is being installed: _____ low pressure;

   __X__ gravity; _____ other _____

2. Provide a brief listing of the components of this treatment and disposal system (if not covered by specific questions below), including dimensions, capacities, loading rates, and detention times of tanks, pumping facilities (duplex pumps), high water alarms, filters (specify type), ponds, lagoons, disinfection facilities, subsurface fields, etc.:
Wastewater from the Caretaker's Residence goes to a 1500 gallon septic tank where it gravity feeds into a distribution box and the drain field.

3. Specify the loading rate recommendation, as determined by the soils scientist, for the subsurface disposal field: 0.3 GPD per square foot
4. Specify the loading rate recommendation, as determined by the soils scientist, for the repair area (100% replacement) subsurface disposal field: 0.3 GPD per square ft.
5. Specify design loading rate that will occur in disposal field: 0.3 GPD / ft^2 (In coastal areas the maximum is 1.5 GPD / square foot for gravity systems and 1.0 GPD per square foot for low pressure systems).
6. Specify the number of subsurface fields: 1; The dimensions of the fields: 40' x 100';
Supply line dia.: 4"; Manifold dia.: 4"; Distribution lateral dia.: 4"; Hole dia.: 0.5"; Number of laterals: 4; Lateral length (typically 70 ft. max. for LPP & 100 ft. max. for gravity): 100'; Trench width: 3'; Trench depth: 2'; Minimum pressure head: 4'; Maximum pressure head: 10'; Minimum vertical separation between trench bottoms and mean seasonal high water table: 48" +; Distance on centers (for LPP not less than 5 ft.): 10'; Maximum slope of trenches (should be less than 0.2% for gravity systems): 0.2%; **Details must be provided in plans/specs which demonstrate that the ends of lines are plugged, that turn-ups are provided for LPP, and that measures will be taken (grade boards, etc.) to ensure that laterals are properly installed.**

7. The following criteria should be used for the sizing of residential septic tanks:
   a. three bedrooms or less , use minimum 900 gallons;
   b. four bedrooms , use minimum 1000 gallons;
   c. five bedrooms , use minimum 1250 gallons.
8. For businesses with a design flow less than 600 GPD, the minimum tank capacity shall be twice the flow.

9. The following criteria should be used for the sizing of septic tanks for residences with more than five bedrooms, multiple family residences, tanks serving two or more residences*, or establishments with a flow between 600 GPD and 1500 GPD:

   Septic Tank Volume = (1.17) (daily sewage flow) + 500 gallons

   *Minimum septic tank capacity shall be 1500 gallons

10. For design flows between 1500 GPD and 4500 GPD, the following criteria shall be used: Septic Tank Volume = (0.75) (daily sewage flow) + 1125 gallons
11. For design flows which exceed 4500 GPD, use a septic tank capacity equal to the flow.
12. Specify the septic tank volume: 1500 gallons
13. Specify the pump tank volume: N/A gallons
14. Specify the number of pumps and their capacity: N/A pumps at N/A GPM
15. Specify the high water alarms: N/A audible & visual; _____ auto dialer
16. Name of closest downstlope surface waters: Gar Creek
17. Classification of closest downslope surface waters: WS-III (as established by the Environmental Management Commission and specified on page 7 of this application).
18. If a power failure at the facility could impact waters classified as WS, SA, B, or SB, describe which of the measures are being implemented to prevent such impact, as required in 15 NCAC 2H .0200: N/A

19. The different disposal fields, laterals, or groups of laterals in a subsurface system are typically designed to be dosed at different rates or volumes from one another. Explain the method that will be used to ensure that the proper dosing rates and volumes occur:
    Laterals dosed at equal volumes by distribution box

20. The project must conform to the following buffers:
    a) 100 feet between the disposal area and any public or private water supply including wells;
    b) 50 feet between disposal area and waters classified as WS-I, WS-II, WS-III or B; and 100 feet between the disposal area and the normal high water level of waters classified as SA or SB;
    c) 50 feet between any the disposal area and any stream, lake, river, or natural drainage way;
    d) 50 feet between the treatment/disposal systems and property lines;

e) 10 feet between the disposal area and any surface water interceptor drains or diversions (upslope);

f) 25 feet between the disposal area and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems;

g) 20 feet between disposal area and any other subsurface disposal area except the repair area.

21. If any of the applicable buffers are are not being met, please explain how the proposed buffers will provide equal or better protection of the Waters of the State with no increased potential for nuisance conditions: N/A

THIS APPLICATION PACKAGE WILL NOT BE ACCEPTED BY THE DIVISION OF ENVIRONMENTAL MANAGEMENT UNLESS ALL OF THE APPLICABLE ITEMS ARE INCLUDED WITH THE SUBMITTAL

Required Items

a. One original and three copies of the completed and appropriately executed application form.

b. The appropriate permit processing fee, in accordance with 15A NCAC 2H .0205(c)(5).

c. Five sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer. The plans must include a general location map, a topographic map, a site map which indicates where borings or hand auger samples were taken, a map showing the treatment/disposal facilities, buffers, structures, and property lines; along with all wells, surface waters (100-year flood elevation), and surface drainage features within 500 feet of the treatment/disposal facilities. Each sheet of the plans and the first page of the specifications must be signed and sealed.

d. Five copies of an Operational Agreement (original and 4 copies) must be submitted if the wastewater treatment and disposal facilities will be serving single family residences, condominiums, mobile homes, or town houses and if the subject facilities will be owned by the individual residents, a homeowners association, or a developer.

e. Five copies of all reports, evaluations, agreements, supporting calculations, etc., must be submitted as a part of the supporting documents which are signed and sealed by the North Carolina Professional Engineer. Although certain portions of this required submittal must be developed by other professionals, inclusion of these materials under the signature and seal of a North Carolina Professional Engineer signifies that he has reviewed this material and has judged it to be consistent with his proposed design.

f. Five copies of the existing permit if a renewal or modification.

g. A soils scientist report which includes texture, color, and structure of soils down to a depth of seven feet, depth, thickness and type of any restrictive horizons, hydraulic conductivity in the most restrictive horizon, cation exchange capacity (CEC), depth of seasonal high water table, soil pH, soils map (if available), and recommended loading rates. This report must be signed by the soils scientist.

DIVISION OF ENVIRONMENTAL MANAGEMENT REGIONAL OFFICES (4/91)

Asheville Regional WQ Super.
59 Woodfin Place
Asheville, NC 28802
704/251-6208

Avery	Macon
Buncombe	Madison
Burke	McDowell
Caldwell	Mitchell
Cherokee	Polk
Clay	Rutherford
Graham	Swain
Haywood	Transylvania
Henderson	Yancy
Jackson	

Washington Regional WQ Super.
P O Box 1507
Washington, NC 27889
919/946-6481

Beaufort	Jones
Bertie	Lenoir
Camden	Martin
Chowan	Pamlico
Craven	Pasquotank
Currituck	Perquimans
Dare	Pitt
Gates	Tyrell
Greene	Washington
Hertford	Wayne
Hyde	

Raleigh Regional WQ Super.
3800 Barrett Dr., Suite 101
Raleigh, NC 27609
919/733-2314

Chatham	Nash
Durham	Northampton
Edgecombe	Orange
Franklin	Person
Granville	Vance
Halifax	Wake
Johnston	Warren
Lee	Wilson

Fayetteville Regional WQ Super.
Wachovia Building, Suite 714
Fayetteville, NC 28301
919/486-1541

Anson	Moore
Bladen	Robeson
Cumberland	Richmond
Harnett	Sampson
Hoke	Scotland
Montgomery	

Mooresville Regional WQ Super.
919 North Main Street
Mooresville, NC 28115
704/663-1699

Alexander	Mecklenburg
Cabarrus	Rowan
Catawba	Stanly
Gaston	Union
Iredell	Cleveland
Lincoln	

Wilmington Region. WQ Super.
127 Cardinal Drive Extension
Wilmington, NC 28405-3845
919/395-3900

Brunswick	New Hanover
Carteret	Onslow
Columbus	Pender
Duplin	

Winston-Salem Regional WQ Super.
8025 North Point Boulevard, Suite 100
Winston-Salem, NC 27106
919/761-2351

Alamance	Rockingham
Alleghany	Randolph
Ashe	Stokes
Caswell	Surry
Davidson	Watauga
Davie	Wilkes
Forsyth	Yadkin
Guilford	

Name and Complete Address of Engineering Firm: Mecklenburg County Engineering Dept.
700 North Tryon Street

City: Charlotte State: NC Zip: 28202

Telephone No. (704) 336-3871

Professional Engineer's Certification:

I, David K. Morton, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

North Carolina Professional Engineer's Registration No. 7941

Print Name of Engineer DAVID K. MORTON

Seal and Signature (specify date):

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

David K. Morton

4-6-92

Applicant's Certification:

I, Bobbie Shields, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.

Signature Bobbie Shields Date 4-8-92

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT
WATER QUALITY SECTION
PERMITS AND ENGINEERING UNIT
POST OFFICE BOX 29535
512 NORTH SALISBURY STREET
RALEIGH, NORTH CAROLINA 27626-0535
TELEPHONE NUMBER: 919/733-5083

PERMIT APPLICATION PROCESSING FEES

(effective October 1, 1990)

CATEGORY	NEW APPLICATIONS/ MODIFICATIONS	RENEWALS WITHOUT MODIFICATIONS
> 1,000,000 GPD		
Industrial	$400	$300
Domestic/Cooling Water	$400	$300
10,001 - 1,000,000 GPD		
Industrial	$400	$250
Domestic/Cooling Water	$400	$250
1,001 - 10,000 GPD		
Industrial	$400	$200
Domestic/Cooling Water	$400	$200
< or = 1,000 GPD and Single Family Dwelling	$240	$120
Sludge < or = 300 Acres	$400	$250
Sludge > 300 Acres	$400	$250
Sewer Extensions (nondelegated)	$400	0
Sewer Extensions (delegated)	$200	0
Closed-Loop Recycle or Evaporative	$400	$200

NOTE: The Fees for Soil Remediation Projects are the same as for Sludges.

Under the Sewer Extension Fee, "delegated to municipalities" applies only to those governmental jurisdictions that have specific delegation review authority, as granted by the Division of Environmental Management.

RECEIVED WQ0006528
DEHNR-DEM-WQ
PERMITS & ENGIN. UNIT
92 MAY 21 AM 11:22

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Non-Discharge Permit Application
(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

RECEIVED
DEHNR-DEH-WQ
PERMITS & ENGIN. UNIT
92 APR 21 AM 10:48

RECEIVED
DEHNR-DEM-WQ
PERMITS & ENGIN. UNIT
92 JUL -7 AM 10:47

SEPTIC TANK / LOW PRESSURE PIPE / GRAVITY SUBSURFACE DISPOSAL SYSTEMS

[FOR MECHANICAL TREATMENT SYSTEMS WITH SUBSURFACE DISPOSAL USE FORM MTDS]

(THE DIVISION OF ENVIRONMENTAL MANAGEMENT HAS JURISDICTION IF THE SYSTEM TREATS INDUSTRIAL WASTEWATER OR IF THE SYSTEM IS OWNED BY A SANITARY DISTRICT, A METROPOLITAN SEWAGE DISTRICT, A WATER & SEWER AUTHORITY, A COUNTY, A MUNICIPALITY, OR A PUBLIC UTILITY. THE DIVISION OF ENVIRONMENTAL HEALTH HAS JURISDICTION FOR OTHER DOMESTIC SUBSURFACE SYSTEMS)

I. GENERAL INFORMATION:

1. Applicant (corporation, individual, or other): Mecklenburg County
2. Print Owners or Signing Official's Name and Title (the person who is legally responsible for the facility and its compliance): Bobbie Shields
   Director of Engineering
3. Mailing Address: 700 North Tryon Street
   City: Charlotte State: NC Zip: 28202
   Telephone No.: (704) 336-2713
4. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans/specs., letters of flow acceptance, Operational Agreements, etc.):
   Latta Plantation Park Caretaker's Facility
5. Application Date: March 16, 1991 6. Fee Submitted: $ 240.00
7. County where project is located: Mecklenburg County
8. Address of treatment and subsurface facility: 6300 Sample Road
   Charlotte, NC
9. Latitude: N 589,550 ; Longitude: E 1,430,850 of subsurface fields

II. PERMIT INFORMATION:

1. **Permit No. (will be completed by DEM):** _____

2. Specify whether project is: __X__ new; _____ renewal*; _____ modification.
   *If renewal, complete only sections I, II, III and applicant signature (on pg.9). Submit only pgs. 1, 2, 9 (original and 3 copies of each). Engineer signature not required for renewal.

3. If this application is being submitted as a result of a renewal or modification to an existing permit, list the existing permit number __N/A__ and issue date __N/A__

4. Specify whether the applicant is __X__ public or _____ private.

5. Specify whether applicant is: _____ sanitary district; _____ metropolitan sewage district; _____ water & sewer authority; __X__ county; _____ municipality; _____ public utility; _____ other (explain) _____

III. INFORMATION ON WASTEWATER:

1. Nature of Wastewater: __100__ % Domestic; _____ % Commercial; _____ % Industrial; _____ % Other waste (specify): _____

2. Please provide a one or two word description specifying the origin of the wastewater, such as school, subdivision, hospital, commercial, industrial, apartments, etc.:
   Caretaker's Residence

3. If wastewater is not domestic in nature, what level of pretreatment has been provided to ensure protection of the receiving treatment system: N/A

4. Volume of wastewater generated by this project: 360 gallons per day

5. Explanation of how wastewater volume was determined: Based on an average daily flow of 120 gal/day/bedroom for the three (3) bedrooms for the facility.

6. Brief project description: Residence of the Caretaker for Latta Plantation Park.

There may be questions on this application that are not applicable to the subject project, such as questions aimed at low pressure systems vs. gravity systems. In those instances state not applicable or N/A; however, be certain that all pertinent questions have been answered or the application package will be returned as incomplete.

IV. DESIGN INFORMATION:

1. Specify the type of system that is being installed: _____ low pressure;

   __X__ gravity; _____ other _____

2. Provide a brief listing of the components of this treatment and disposal system (if not covered by specific questions below), including dimensions, capacities, loading rates, and detention times of tanks, pumping facilities (duplex pumps), high water alarms, filters (specify type), ponds, lagoons, disinfection facilities, subsurface fields, etc.:
   Wastewater from the Caretaker's Residence goes to a 1500 gallon septic tank where it gravity feeds into a distribution box and the drain field.

3. Specify the loading rate recommendation, as determined by the soils scientist, for the subsurface disposal field: 0.3 GPD per square foot
4. Specify the loading rate recommendation, as determined by the soils scientist, for the repair area (100% replacement) subsurface disposal field: 0.3 GPD per square ft.
5. Specify design loading rate that will occur in disposal field: 0.3 GPD / ft.^{2} (In coastal areas the maximum is 1.5 GPD / square foot for gravity systems and 1.0 GPD per square foot for low pressure systems).
6. Specify the number of subsurface fields: 1; The dimensions of the fields: 40' x 100';
   Supply line dia.: 4"; Manifold dia.: 4"; Distribution lateral dia.: 4"; Hole dia.: 0.5"; Number of laterals: 4; Lateral length (typically 70 ft. max. for LPP & 100 ft. max. for gravity): 100'; Trench width: 3'; Trench depth: 2'; Minimum pressure head: 4'; Maximum pressure head: 10'; Minimum vertical separation between trench bottoms and mean seasonal high water table: 48" +; Distance on centers (for LPP not less than 5 ft.): 10'; Maximum slope of trenches (should be less than 0.2% for gravity systems): 0.2%; **Details must be provided in plans/specs which demonstrate that the ends of lines are plugged, that turn-ups are provided for LPP, and that measures will be taken (grade boards, etc.) to ensure that laterals are properly installed.**

7. The following criteria should be used for the sizing of residential septic tanks:
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   b. four bedrooms , use minimum 1000 gallons;
   c. five bedrooms , use minimum 1250 gallons.
8. For businesses with a design flow less than 600 GPD, the minimum tank capacity shall be twice the flow.

9. The following criteria should be used for the sizing of septic tanks for residences with more than five bedrooms, multiple family residences, tanks serving two or more residences*, or establishments with a flow between 600 GPD and 1500 GPD:

   Septic Tank Volume = (1.17) (daily sewage flow) + 500 gallons

   *Minimum septic tank capacity shall be 1500 gallons

10. For design flows between 1500 GPD and 4500 GPD, the following criteria shall be used: Septic Tank Volume = (0.75) (daily sewage flow) + 1125 gallons
11. For design flows which exceed 4500 GPD, use a septic tank capacity equal to the flow.
12. Specify the septic tank volume: 1500 gallons
13. Specify the pump tank volume: N/A gallons
14. Specify the number of pumps and their capacity: N/A pumps at N/A GPM
15. Specify the high water alarms: N/A audible & visual; _____ auto dialer
16. Name of closest downstlope surface waters: Gar Creek
17. Classification of closest downslope surface waters: WS-III (as established by the Environmental Management Commission and specified on page 7 of this application).
18. If a power failure at the facility could impact waters classified as WS, SA, B, or SB, describe which of the measures are being implemented to prevent such impact, as required in 15 NCAC 2H .0200: N/A

19. The different disposal fields, laterals, or groups of laterals in a subsurface system are typically designed to be dosed at different rates or volumes from one another. Explain the method that will be used to ensure that the proper dosing rates and volumes occur:
    Laterals dosed at equal volumes by distribution box

20. The project must conform to the following buffers:
    a) 100 feet between the disposal area and any public or private water supply including wells;
    b) 50 feet between disposal area and waters classified as WS-I, WS-II, WS-III or B; and 100 feet between the disposal area and the normal high water level of waters classified as SA or SB;
    c) 50 feet between any the disposal area and any stream, lake, river, or natural drainage way;
    d) 50 feet between the treatment/disposal systems and property lines;

e) 10 feet between the disposal area and any surface water interceptor drains or diversions (upslope);

f) 25 feet between the disposal area and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems;

g) 20 feet between disposal area and any other subsurface disposal area except the repair area.

21. If any of the applicable buffers are are not being met, please explain how the proposed buffers will provide equal or better protection of the Waters of the State with no increased potential for nuisance conditions: N/A

THIS APPLICATION PACKAGE WILL NOT BE ACCEPTED BY THE DIVISION OF ENVIRONMENTAL MANAGEMENT UNLESS ALL OF THE APPLICABLE ITEMS ARE INCLUDED WITH THE SUBMITTAL

Required Items

a. One original and three copies of the completed and appropriately executed application form.

b. The appropriate permit processing fee, in accordance with 15A NCAC 2H .0205(c)(5).

c. Five sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer. The plans must include a general location map, a topographic map, a site map which indicates where borings or hand auger samples were taken, a map showing the treatment/disposal facilities, buffers, structures, and property lines; along with all wells, surface waters (100-year flood elevation), and surface drainage features within 500 feet of the treatment/disposal facilities. Each sheet of the plans and the first page of the specifications must be signed and sealed.

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f. Five copies of the existing permit if a renewal or modification.

g. A soils scientist report which includes texture, color, and structure of soils down to a depth of seven feet, depth, thickness and type of any restrictive horizons, hydraulic conductivity in the most restrictive horizon, cation exchange capacity (CEC), depth of seasonal high water table, soil pH, soils map (if available), and recommended loading rates. This report must be signed by the soils scientist..

h. For systems treating industrial waste or any system with a design flow greater than 25,000 GPD a hydrogeologic and soils description of the subsurface to a depth of twenty feet or bedrock, whichever is less. The number of borings shall be sufficient to determine significant changes in lithology, the vertical permeability of the unsaturated zone and the hydraulic conductivity of the saturated zone, depth to the mean seasonal high water table, and a determination of transmissivity and specific yield of the unconfined aquifer.

i. Proposal for groundwater monitoring.

j. Information on the location, construction details, and primary usage of all wells within 500 feet of the treatment/disposal facilities.

k. For industrial waste a complete chemical analysis of the typical wastewater to include, but not be limited to Total Organic Carbon, BOD, COD, Chlorides, Phosphorus, Ammonia, Nitrates, Phenol, Total Trihalomethanes, Toxicity Test Parameters, Total Halogenated Compounds, Total Coliforms, and Total Dissolved Solids.

TO: REGIONAL WATER QUALITY SUPERVISOR

Please provide me with the classification of the surface waters identified in number 5 below and on the attached map segment:

Name of surface waters: GAR CREEK

Classification (as established by the Environmental Management Commission): WS-III

Proposed Classification, if applicable: N/A

Signature of regional office personnel: Michael D. Parker Date: 4-7-92

INSTRUCTIONS TO ENGINEER

In order to determine whether provisions for dual or standby power may be required for the subject facility, the classification of the closest downslope surface waters (the surface waters that any overflow from the facility would flow toward) must be determined. You are required to submit this form, with items 1 through 10 completed, to the appropriate Division of Environmental Management Regional Water Quality Supervisor (see attached listing). At a minimum, you must include an 8.5" by 11" copy of the portion of a 7.5 minute USGS Topographic Map which shows the subject surface waters. You must identify the location of the facility and the closest downslope surface waters (waters for which you are requesting the classification) on the submitted map copy. The application may not be submitted until this form is completed and included with the submittal.

1. Applicant (corporation, individual, or other): Mecklenburg County
2. Name and Complete Address of Engineering Firm: Meck. Co. Engineering Dept.
   700 North Tryon Street
   City: Charlotte State: NC Zip: 28202
   Telephone No. (704) 336-3871
3. Project Name: Latta Plantation Park Caretaker's Residence
4. Facility design flow: 360 GPD
5. Name of closest downslope surface waters: Gar Creek
6. County(s) where project and surface waters are located: Mecklenburg
7. Map name and date: Mount, Island Lake, N.C.; 1969
8. North Carolina Professional Engineer's Registration No. 7941
9. Print Name of Engineer DAVID K. MORTON
10. Seal and Signature (specify date):

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

David K. Morton

4-6-92

DIVISION OF ENVIRONMENTAL MANAGEMENT REGIONAL OFFICES (4/91)

Asheville Regional WQ Super.
59 Woodfin Place
Asheville, NC 28802
704/251-6208

Avery	Macon
Buncombe	Madison
Burke	McDowell
Caldwell	Mitchell
Cherokee	Polk
Clay	Rutherford
Graham	Swain
Haywood	Transylvania
Henderson	Yancy
Jackson	

Washington Regional WQ Super.
P O Box 1507
Washington, NC 27889
919/946-6481

Beaufort	Jones
Bertie	Lenoir
Camden	Martin
Chowan	Pamlico
Craven	Pasquotank
Currituck	Perquimans
Dare	Pitt
Gates	Tyrell
Greene	Washington
Hertford	Wayne
Hyde	

Raleigh Regional WQ Super.
3800 Barrett Dr., Suite 101
Raleigh, NC 27609
919/733-2314

Chatham	Nash
Durham	Northampton
Edgecombe	Orange
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Halifax	Wake
Johnston	Warren
Lee	Wilson

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Wachovia Building, Suite 714
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919/486-1541

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Cumberland	Richmond
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919 North Main Street
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Catawba	Stanly
Gaston	Union
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Lincoln	

Wilmington Region. WQ Super.
127 Cardinal Drive Extension
Wilmington, NC 28405-3845
919/395-3900

Brunswick	New Hanover
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Winston-Salem Regional WQ Super.
8025 North Point Boulevard, Suite 100
Winston-Salem, NC 27106
919/761-2351

Alamance	Rockingham
Alleghany	Randolph
Ashe	Stokes
Caswell	Surry
Davidson	Watauga
Davie	Wilkes
Forsyth	Yadkin
Guilford	

Name and Complete Address of Engineering Firm: Mecklenburg County Engineering Dept.
700 North Tryon Street

City: Charlotte State: NC Zip: 28202

Telephone No. (704) 336-3871

Professional Engineer's Certification:

I, David K. Morton, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

North Carolina Professional Engineer's Registration No. 7941

Print Name of Engineer DAVID K. MORTON

Seal and Signature (specify date):

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

David K. Morton

4-6-92

Applicant's Certification:

I, Bobbie Shields, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.

Signature Bobbie Shields Date 4-8-92

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT
WATER QUALITY SECTION
PERMITS AND ENGINEERING UNIT
POST OFFICE BOX 29535
512 NORTH SALISBURY STREET
RALEIGH, NORTH CAROLINA 27626-0535
TELEPHONE NUMBER: 919/733-5083

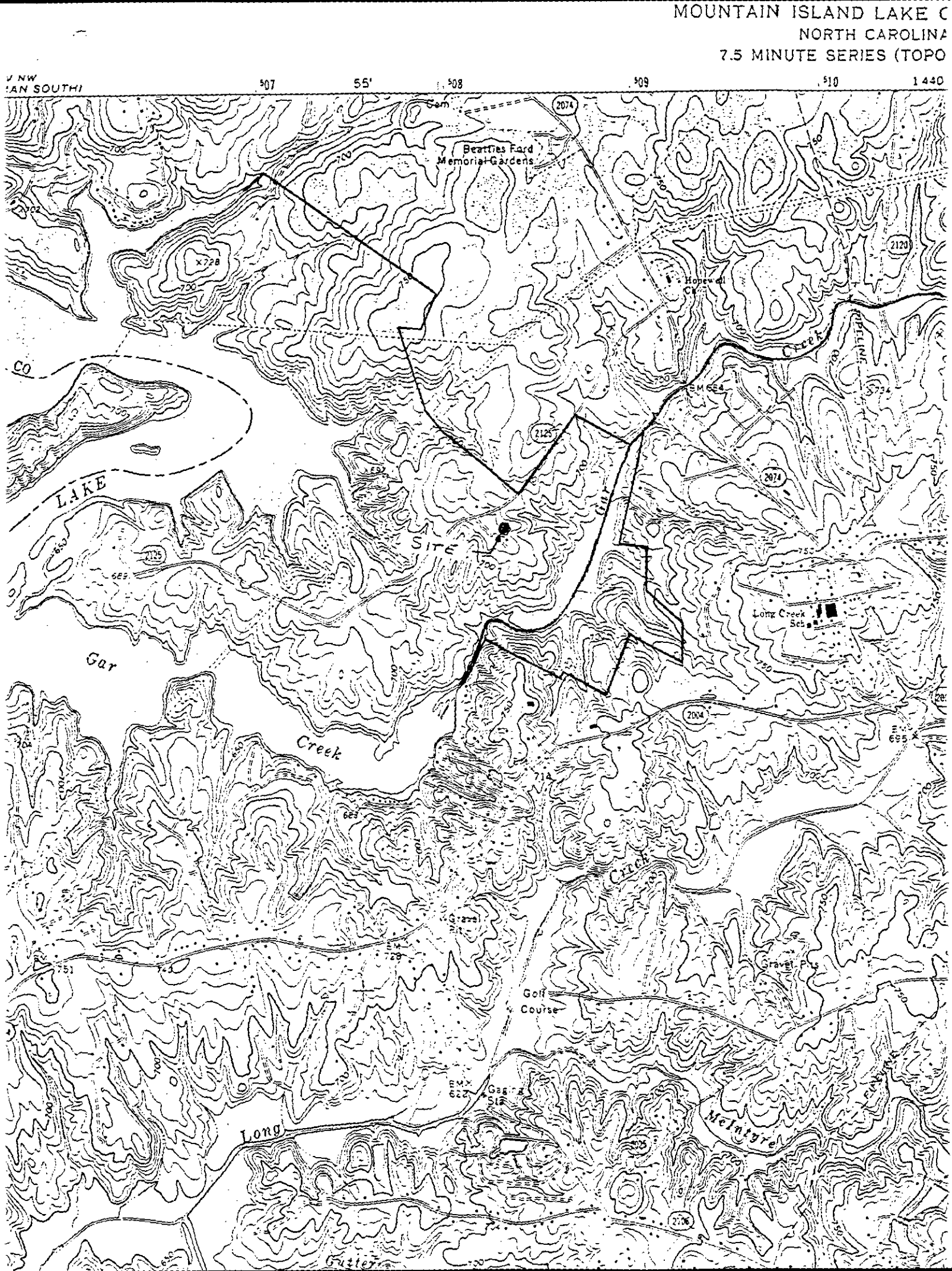
PERMIT APPLICATION PROCESSING FEES

(effective October 1, 1990)

CATEGORY	NEW APPLICATIONS/ MODIFICATIONS	RENEWALS WITHOUT MODIFICATIONS
> 1,000,000 GPD		
Industrial	$400	$300
Domestic/Cooling Water	$400	$300
10,001 - 1,000,000 GPD		
Industrial	$400	$250
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1,001 - 10,000 GPD		
Industrial	$400	$200
Domestic/Cooling Water	$400	$200
< or = 1,000 GPD and Single Family Dwelling	$240	$120
Sludge < or = 300 Acres	$400	$250
Sludge > 300 Acres	$400	$250
Sewer Extensions (nondelegated)	$400	0
Sewer Extensions (delegated)	$200	0
Closed-Loop Recycle or Evaporative	$400	$200

NOTE: The Fees for Soil Remediation Projects are the same as for Sludges.

Under the Sewer Extension Fee, "delegated to municipalities" applies only to those governmental jurisdictions that have specific delegation review authority, as granted by the Division of Environmental Management.


MOUNTAIN ISLAND LAKE C
NORTH CAROLINA
7.5 MINUTE SERIES (TOPO
1440
Beatties Ford
Memorial Gardens
LAKE
SITE
Creek
Long Creek
Golf
Course
Gravel Pit
Gravel Pit
Long
McIntyre
Gutter

Mecklenburg County
Health Department

March 30, 1992

Mecklenbury County
700 N. Tryon Street
Charlotte, NC 28202

RE: Property located on 6300 Sample Road
FILE: B129A (237B)
PARCEL: 023-071-01

Dear Mr. Morton:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The property was found to contain a limited area of soils which were classified as PROVISIONALLY SUITABLE for such an installation. A copy of the Site Evaluation Report (Serial Number 12570) is enclosed for your information.

While this classification indicates the site is acceptable for the installation of a septic tank system, no specific system or plans have been approved. The area available for such an installation may impose limitations on the size and/or type construction permitted on the lot. Specific plan approval will be provided upon submission of an Application for an Improvement Permit with an **ACCURATELY** dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems and determination that the area is adequate to accommodate the proposed construction.

Please note that this classification may be revoked if any filling, grading or construction (including the drilling of a well) is performed on the lot which in the opinion of this department renders any area previously designated suitable for system installation, unsuitable. Furthermore, this approval may be revoked should any changes occur in the regulations under which it was granted, if such changes would have prevented its approval had they been in effect on the date of issuance.

If there are any questions concerning this matter, please contact me at 336-5573.

Sincerely,

Kelly Randall

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems
GW:lw

Enclosure

Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
SITE EVALUATION REPORT
SERIAL NUMBER № 12570

File: 8129 A / 237 B Action 1

Parcel: 023-071-01 ☐ PC

Location: 6300 S. AMPLE ROAD

Subdivision:

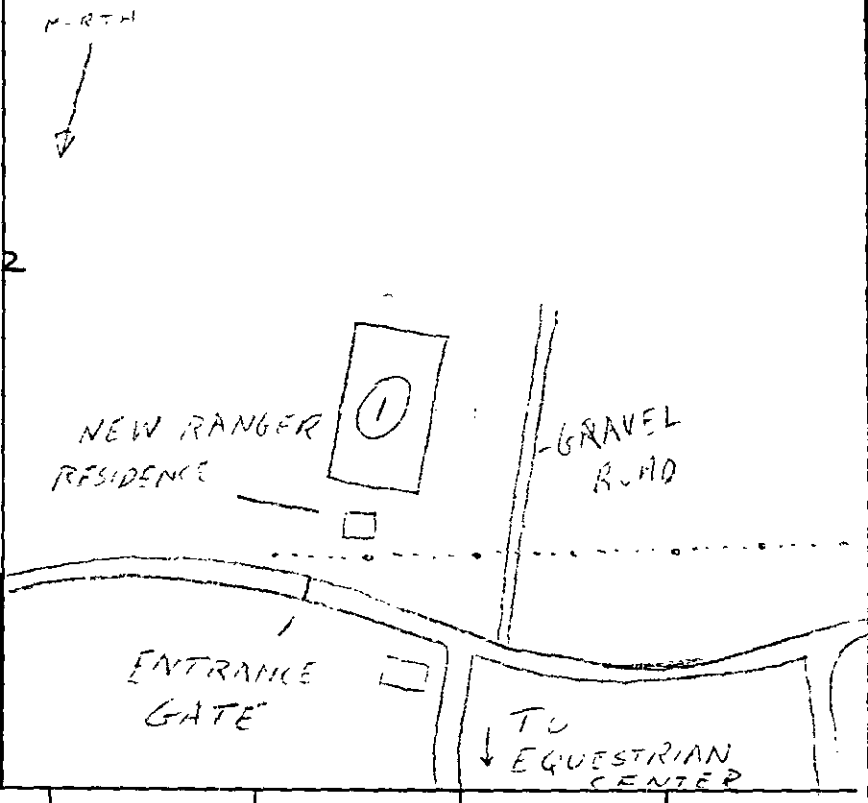
Lot: Block: Acres: ≈ 1.0

Owner: MECKLENBURG COUNTY
Address: 700 N. TRYON ST
CHARLOTTE NC 28202
ATTN: DAVID INGRAM

Comments: Application rate .3gpd/Ft²
LONG TERM ACCEPTANCE RATE
Kelly Rwell 5-15-92

Described by:

Date: 3-



*** EVALUATION KEY ***
S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U SLIGHTLY EXCESSIVE COBBLY	S PS U	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U MOD MOD BLOCKY	S PS U	S PS U	S PS U	S PS U	S PS U
Drainage	(S) PS U >48"	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	(S) PS U >19"	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S PS U NONE	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	CECIL					
Area Classification	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U

WQ6528

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Environmental Management
Non-Discharge Permit Application
(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

RECEIVED
DEHNR-DEM-WQ
PERMITS & ENGIN. UNIT
92 APR 21 AM 10: 47

SEPTIC TANK / LOW PRESSURE PIPE / GRAVITY SUBSURFACE DISPOSAL SYSTEMS

(FOR MECHANICAL TREATMENT SYSTEMS WITH SUBSURFACE DISPOSAL USE FORM MTDS)

(THE DIVISION OF ENVIRONMENTAL MANAGEMENT HAS JURISDICTION IF THE SYSTEM TREATS INDUSTRIAL WASTEWATER OR IF THE SYSTEM IS OWNED BY A SANITARY DISTRICT, A METROPOLITAN SEWAGE DISTRICT, A WATER & SEWER AUTHORITY, A COUNTY, A MUNICIPALITY, OR A PUBLIC UTILITY. THE DIVISION OF ENVIRONMENTAL HEALTH HAS JURISDICTION FOR OTHER DOMESTIC SUBSURFACE SYSTEMS)

I. GENERAL INFORMATION:

1. Applicant (corporation, individual, or other): Mecklenburg County

2. Print Owners or Signing Official's Name and Title (the person who is legally responsible for the facility and its compliance): Bobbie Shields
   Director of Engineering

3. Mailing Address: 700 North Tryon Street
   City: Charlotte State: NC Zip: 28202
   Telephone No.: (704) 336-2713

RECEIVED
DEHNR-DEM-WQ
PERMITS & ENGIN. UNIT
92 MAY 21 AM 11: 22

4. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans/specs., letters of flow acceptance, Operational Agreements, etc.):
   Latta Plantation Park Caretaker's Facility

5. Application Date: March 16, 1991 6. Fee Submitted: $ 240.00

7. County where project is located: Mecklenburg County

8. Address of treatment and subsurface facility: 6300 Sample Road
   Charlotte, NC

9. Latitude: N 589,550 ; Longitude: E 1,430,850 of subsurface fields

II. PERMIT INFORMATION:

1. **Permit No. (will be completed by DEM):** _____

2. Specify whether project is: __X__ new; _____ renewal*; _____ modification.
   *If renewal, complete only sections I, II, III and applicant signature (on pg.9). Submit only pgs. 1, 2, 9 (original and 3 copies of each). Engineer signature not required for renewal.

3. If this application is being submitted as a result of a renewal or modification to an existing permit, list the existing permit number __N/A__ and issue date __N/A__

4. Specify whether the applicant is __X__ public or _____ private.

5. Specify whether applicant is: _____ sanitary district; _____ metropolitan sewage district; _____ water & sewer authority; __X__ county; _____ municipality; _____ public utility; _____ other (explain) _____

III. INFORMATION ON WASTEWATER:

1. Nature of Wastewater: __100__ % Domestic; _____ % Commercial; _____ % Industrial; _____ % Other waste (specify): _____

2. Please provide a one or two word description specifying the origin of the wastewater, such as school, subdivision, hospital, commercial, industrial, apartments, etc.:
   Caretaker's Residence

3. If wastewater is not domestic in nature, what level of pretreatment has been provided to ensure protection of the receiving treatment system: N/A

4. Volume of wastewater generated by this project: 360 gallons per day

5. Explanation of how wastewater volume was determined: Based on an average daily flow of 120 gal/day/bedroom for the three (3) bedrooms for the facility.

6. Brief project description: Residence of the Caretaker for Latta Plantation Park.

There may be questions on this application that are not applicable to the subject project, such as questions aimed at low pressure systems vs. gravity systems. In those instances state not applicable or N/A; however, be certain that all pertinent questions have been answered or the application package will be returned as incomplete.

IV. DESIGN INFORMATION:

1. Specify the type of system that is being installed: _____ low pressure;

   __X__ gravity; _____ other _____

2. Provide a brief listing of the components of this treatment and disposal system (if not covered by specific questions below), including dimensions, capacities, loading rates, and detention times of tanks, pumping facilities (duplex pumps), high water alarms, filters (specify type), ponds, lagoons, disinfection facilities, subsurface fields, etc.:
Wastewater from the Caretaker's Residence goes to a 1500 gallon septic tank where it gravity feeds into a distribution box and the drain field.

3. Specify the loading rate recommendation, as determined by the soils scientist, for the subsurface disposal field: 0.3 GPD per square foot
4. Specify the loading rate recommendation, as determined by the soils scientist, for the repair area (100% replacement) subsurface disposal field: 0.3 GPD per square ft.
5. Specify design loading rate that will occur in disposal field: 0.3 GPD / ft^2 (In coastal areas the maximum is 1.5 GPD / square foot for gravity systems and 1.0 GPD per square foot for low pressure systems).
6. Specify the number of subsurface fields: 1; The dimensions of the fields: 40' x 100';
Supply line dia.: 4"; Manifold dia.: 4"; Distribution lateral dia.: 4"; Hole dia.: 0.5"; Number of laterals: 4; Lateral length (typically 70 ft. max. for LPP & 100 ft. max. for gravity): 100'; Trench width: 3'; Trench depth: 2'; Minimum pressure head: 4'; Maximum pressure head: 10'; Minimum vertical separation between trench bottoms and mean seasonal high water table: 48" +; Distance on centers (for LPP not less than 5 ft.): 10'; Maximum slope of trenches (should be less than 0.2% for gravity systems): 0.2%; **Details must be provided in plans/specs which demonstrate that the ends of lines are plugged, that turn-ups are provided for LPP, and that measures will be taken (grade boards, etc.) to ensure that laterals are properly installed.**

7. The following criteria should be used for the sizing of residential septic tanks:
   a. three bedrooms or less , use minimum 900 gallons;
   b. four bedrooms , use minimum 1000 gallons;
   c. five bedrooms , use minimum 1250 gallons.
8. For businesses with a design flow less than 600 GPD, the minimum tank capacity shall be twice the flow.

9. The following criteria should be used for the sizing of septic tanks for residences with more than five bedrooms, multiple family residences, tanks serving two or more residences*, or establishments with a flow between 600 GPD and 1500 GPD:

   Septic Tank Volume = (1.17) (daily sewage flow) + 500 gallons

   *Minimum septic tank capacity shall be 1500 gallons

10. For design flows between 1500 GPD and 4500 GPD, the following criteria shall be used: Septic Tank Volume = (0.75) (daily sewage flow) + 1125 gallons
11. For design flows which exceed 4500 GPD, use a septic tank capacity equal to the flow.
12. Specify the septic tank volume: 1500 gallons
13. Specify the pump tank volume: N/A gallons
14. Specify the number of pumps and their capacity: N/A pumps at N/A GPM
15. Specify the high water alarms: N/A audible & visual; _____ auto dialer
16. Name of closest downstlope surface waters: Gar Creek
17. Classification of closest downslope surface waters: WS-III (as established by the Environmental Management Commission and specified on page 7 of this application).
18. If a power failure at the facility could impact waters classified as WS, SA, B, or SB, describe which of the measures are being implemented to prevent such impact, as required in 15 NCAC 2H .0200: N/A

19. The different disposal fields, laterals, or groups of laterals in a subsurface system are typically designed to be dosed at different rates or volumes from one another. Explain the method that will be used to ensure that the proper dosing rates and volumes occur:
    Laterals dosed at equal volumes by distribution box

20. The project must conform to the following buffers:
    a) 100 feet between the disposal area and any public or private water supply including wells;
    b) 50 feet between disposal area and waters classified as WS-I, WS-II, WS-III or B; and 100 feet between the disposal area and the normal high water level of waters classified as SA or SB;
    c) 50 feet between any the disposal area and any stream, lake, river, or natural drainage way;
    d) 50 feet between the treatment/disposal systems and property lines;

e) 10 feet between the disposal area and any surface water interceptor drains or diversions (upslope);

f) 25 feet between the disposal area and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems;

g) 20 feet between disposal area and any other subsurface disposal area except the repair area.

21. If any of the applicable buffers are are not being met, please explain how the proposed buffers will provide equal or better protection of the Waters of the State with no increased potential for nuisance conditions: N/A

THIS APPLICATION PACKAGE WILL NOT BE ACCEPTED BY THE DIVISION OF ENVIRONMENTAL MANAGEMENT UNLESS ALL OF THE APPLICABLE ITEMS ARE INCLUDED WITH THE SUBMITTAL

Required Items

a. One original and three copies of the completed and appropriately executed application form.

b. The appropriate permit processing fee, in accordance with 15A NCAC 2H .0205(c)(5).

c. Five sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer. The plans must include a general location map, a topographic map, a site map which indicates where borings or hand auger samples were taken, a map showing the treatment/disposal facilities, buffers, structures, and property lines; along with all wells, surface waters (100-year flood elevation), and surface drainage features within 500 feet of the treatment/disposal facilities. Each sheet of the plans and the first page of the specifications must be signed and sealed.

d. Five copies of an Operational Agreement (original and 4 copies) must be submitted if the wastewater treatment and disposal facilities will be serving single family residences, condominiums, mobile homes, or town houses and if the subject facilities will be owned by the individual residents, a homeowners association, or a developer.

e. Five copies of all reports, evaluations, agreements, supporting calculations, etc., must be submitted as a part of the supporting documents which are signed and sealed by the North Carolina Professional Engineer. Although certain portions of this required submittal must be developed by other professionals, inclusion of these materials under the signature and seal of a North Carolina Professional Engineer signifies that he has reviewed this material and has judged it to be consistent with his proposed design.

f. Five copies of the existing permit if a renewal or modification.

g. A soils scientist report which includes texture, color, and structure of soils down to a depth of seven feet, depth, thickness and type of any restrictive horizons, hydraulic conductivity in the most restrictive horizon, cation exchange capacity (CEC), depth of seasonal high water table, soil pH, soils map (if available), and recommended loading rates. This report must be signed by the soils scientist.

h. For systems treating industrial waste or any system with a design flow greater than 25,000 GPD a hydrogeologic and soils description of the subsurface to a depth of twenty feet or bedrock, whichever is less. The number of borings shall be sufficient to determine significant changes in lithology, the vertical permeability of the unsaturated zone and the hydraulic conductivity of the saturated zone, depth to the mean seasonal high water table, and a determination of transmissivity and specific yield of the unconfined aquifer.

i. Proposal for groundwater monitoring.

j. Information on the location, construction details, and primary usage of all wells within 500 feet of the treatment/disposal facilities.

k. For industrial waste a complete chemical analysis of the typical wastewater to include, but not be limited to Total Organic Carbon, BOD, COD, Chlorides, Phosphorus, Ammonia, Nitrates, Phenol, Total Trihalomethanes, Toxicity Test Parameters, Total Halogenated Compounds, Total Coliforms, and Total Dissolved Solids.

TO: REGIONAL WATER QUALITY SUPERVISOR

Please provide me with the classification of the surface waters identified in number 5 below and on the attached map segment:

Name of surface waters: GAR CREEK

Classification (as established by the Environmental Management Commission): WS-III

Proposed Classification, if applicable: N/A

Signature of regional office personnel: Michael T. Parker Date: 4-7-92

INSTRUCTIONS TO ENGINEER

In order to determine whether provisions for dual or standby power may be required for the subject facility, the classification of the closest downslope surface waters (the surface waters that any overflow from the facility would flow toward) must be determined. You are required to submit this form, with items 1 through 10 completed, to the appropriate Division of Environmental Management Regional Water Quality Supervisor (see attached listing). At a minimum, you must include an 8.5" by 11" copy of the portion of a 7.5 minute USGS Topographic Map which shows the subject surface waters. You must identify the location of the facility and the closest downslope surface waters (waters for which you are requesting the classification) on the submitted map copy. The application may not be submitted until this form is completed and included with the submittal.

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9. Print Name of Engineer DAVID K. MORTON
10. Seal and Signature (specify date):

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

David K. Morton

4-6-92

DIVISION OF ENVIRONMENTAL MANAGEMENT REGIONAL OFFICES (4/91)

Asheville Regional WQ Super.
59 Woodfin Place
Asheville, NC 28802
704/251-6208

Avery	Macon
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Caldwell	Mitchell
Cherokee	Polk
Clay	Rutherford
Graham	Swain
Haywood	Transylvania
Henderson	Yancy
Jackson	

Washington Regional WQ Super.
P O Box 1507
Washington, NC 27889
919/946-6481

Beaufort	Jones
Bertie	Lenoir
Camden	Martin
Chowan	Pamlico
Craven	Pasquotank
Currituck	Perquimans
Dare	Pitt
Gates	Tyrell
Greene	Washington
Hertford	Wayne
Hyde	

Raleigh Regional WQ Super.
3800 Barrett Dr., Suite 101
Raleigh, NC 27609
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127 Cardinal Drive Extension
Wilmington, NC 28405-3845
919/395-3900

Brunswick	New Hanover
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Columbus	Pender
Duplin	

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Caswell	Surry
Davidson	Watauga
Davie	Wilkes
Forsyth	Yadkin
Guilford	

Name and Complete Address of Engineering Firm: Mecklenburg County Engineering Dept.
700 North Tryon Street

City: Charlotte State: NC Zip: 28202

Telephone No. (704) 336-3871

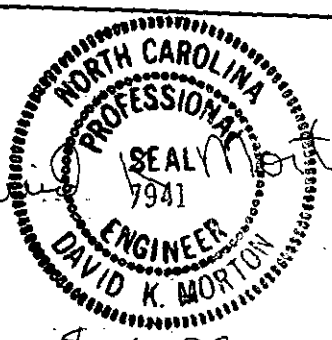
Professional Engineer's Certification:

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North Carolina Professional Engineer's Registration No. 7941

Print Name of Engineer DAVID K. MORTON

Seal and Signature (specify date):



David K. Morton
4-6-92

Applicant's Certification:

I, Bobbie Shields, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.

Signature Bobbie Shields Date 4-8-92

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NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT
WATER QUALITY SECTION
PERMITS AND ENGINEERING UNIT
POST OFFICE BOX 29535
512 NORTH SALISBURY STREET
RALEIGH, NORTH CAROLINA 27626-0535
TELEPHONE NUMBER: 919/733-5083

PERMIT APPLICATION PROCESSING FEES

(effective October 1, 1990)

CATEGORY	NEW APPLICATIONS/ MODIFICATIONS	RENEWALS WITHOUT MODIFICATIONS
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1,001 - 10,000 GPD		
Industrial	$400	$200
Domestic/Cooling Water	$400	$200
< or = 1,000 GPD and Single Family Dwelling	$240	$120
Sludge < or = 300 Acres	$400	$250
Sludge > 300 Acres	$400	$250
Sewer Extensions (nondelegated)	$400	0
Sewer Extensions (delegated)	$200	0
Closed-Loop Recycle or Evaporative	$400	$200

NOTE: The Fees for Soil Remediation Projects are the same as for Sludges.

Under the Sewer Extension Fee, "delegated to municipalities" applies only to those governmental jurisdictions that have specific delegation review authority, as granted by the Division of Environmental Management.

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
William W. Cobey, Jr., Secretary

A. Preston Howard, Jr., P.E.
Acting Director

July 30, 1992

Ms. Bobbie Shields, Director of Engineering
Mecklenburg County
700 North Tryon Street
Charlotte, North Carolina 28202

Subject: Permit Application No. WQ0006528
Mecklenburg County
Latta Plantation Park
Subsurface Wastewater Treatment
& Disposal Facility
Mecklenburg County

Dear Ms. Shields:

You submitted a permit application for a nondischarge permit to the Division of Environmental Management on May 21, 1992. This project was acknowledged and assigned to a review engineer in the State Engineering Review Group for a detailed engineering review and processing of a nondischarge permit under the jurisdiction of North Carolina General Statute 143-215.1 and North Carolina Administrative Code Section 15 NCAC 2H .0200; "Waste Not Discharged to Surface Waters".

On July 14, 1992, House Bill 1545 was ratified in the North Carolina General Assembly which transferred the authority for the review and issuance of most subsurface treatment and disposal facility permits from the Environmental Management Commission whose staff body is the Division of Environmental Management, to the Commission of Health Services. The authority for the review of the application for a permit and the plans and specifications, if submitted for new construction, for the project, will now be reviewed by the Mecklenburg County Health Department. The two Divisions with the assistance of the Health Departments will certainly strive the make this transition as smooth as possible. Please be advised that your permit application and all supporting materials are being sent to the Mecklenburg County Health Department. Under this new authority, you must immediately contact the health department and apply for a permit for the approval of the system you have proposed to construct. Please hold your telephone calls to a minimum until such time as the projects can be reviewed for their completeness and acceptability. You will be contacted by a representative of that Division as soon as this review is complete.

Thank you for your assistance and patience and please realize that this transfer will be handled in a most professional manner. We regret any inconvenience this may cause on the part of processing of your permit application. If you have any questions concerning this matter, please contact Ms. Carolyn McCaskill, Supervisor, State Engineering Review Group with the Division of Environmental Management at (919)733-5083 or Mr. Steven Berkowitz, P.E., On Site Wastewater Engineering Branch with the Division of Environmental Health at (919)733-2895.

Sincerely,

A. Preston Howard, Jr., P.E.

cc: Mecklenburg County Health Department w/ attachments
Mooresville Regional Office, Water Quality Section
Mooresville Regional Office, Groundwater Section
Groundwater Section, Jack Floyd
Facility Assessment Unit
Mr. Steven Berkowitz, P.E., Division of Environmental Health
Ms. Carolyn McCaskill, Division of Environmental Management

Division of Environmental Management

6/29/90
Date

MEMORANDUM

To: Lara Y. Kabler, Project Engineer
Permits & Engineering Unit
Water Quality Section

From: _____
Permits & Compliance Unit
Groundwater Section

Subject: Groundwater Review
Non-Discharge Application No. WQ0006528
Facility Name: MecKlenburg Co - Latta Plantation Park
County: MecKlenburg
(GW # _____)

Attached you will find plans, specifications, and supporting information for the above project.

Please let me know whether you will or will not be conducting an extensive review of the subject project by _____.

If I can provide additional information, please contact me at ext. _____.

RECEIVED
DENR-DEM-W/Q
PERMITS & ENGIN. UNIT
92 JUL -7 AM 10:47

• • • •

NON NPDES FACILITY AND PERMIT DATA

UPDATE OPTION TRXID 50U KEY WQ0006528

PERSONAL DATA FACILITY APPLYING FOR PERMIT APP/PERMIT FEE-$ 240.00 REGION
FACILITY NAME> MECKLENBURG CO-LATTA PLANTATI3 COUNTY> MECKLENBURG 03
ADDRESS: MAILING (REQUIRED) ENGINEER: MECKLENBURG CO ENG.DEPT.
STREET: 700 N. TRYON ST. STREET:
CITY: CHARLOTTE ST NC ZIP 28202 CITY: ST ZIP 0
TELEPHONE 704 336 2713 TELEPHONE:
STATE CONTACT> BOLDEN FACILITY CONTACT BOBBIE SHIELDS
TYPE OF PROJECT> SUBSURFACE DISPOSAL FACILITY LAT: LONG:
DATE APP RCVD 05/21/92 N=NEW,M=MODIFICATION,R=REISSUE> N
DATE ACKNOWLEDGED 05/28/92 DATE REVIEWED / / RETURN DATE / /
REG COMM REQS 06/29/92 DATE DENIED / / NPDES #- _____
REG COMM RCVD 07/16/92 DATE RETURNED / / TRIB Q .0000 MGD
ADD INFO REQS / / OT AG COM REQS 06/29/92 TRIB DATE- / /
ADD INFO RCVD / / OT AG COM RCVD 7/7/92
END STAT APP P 08/19/92 DATE ISSUED / / DATE EXPIRE / /

FEE CODE( )1=(>1MGD),2=(>10KGD),3=(>1KGD),4=(<1KGD+SF),5=(S>300A),6=(S<=300A),
7=(SENDEL),8=(SEDEL),9=(CLREC),0=(NO FEE) DISC CODES ASN/CHG PRMT
ENG CERT DATE / / LAST NOV DATE / / CONBILL( )
COMMENTS:
MESSAGE: *** ENTER DATA FOR UPDATE ***

4

Needs Reviewed

Send to County.

360 GPD
Domestic

To: Permits and Engineering Unit
Water Quality Section

Date: July 14, 1992

NON-DISCHARGE STAFF REPORT AND RECOMMENDATION

County: Mecklenburg
Permit No.: WQ-0006528
MRO No.: 92 - 124

RECEIVED
DEHNR-DEM-WQ
PERMITS & ENGIN. UNIT
92 JUL 16 PM 3:41

PART I - GENERAL INFORMATION Zoden

1. Facility and Address: Mecklenburg County
Latta Plantation Park
Caretakers' Residence
Subsurface Disposal Facility
700 North Tryon Street
Charlotte, North Carolina 28202

2. Date of Investigation: July 14, 1992

3. Report Prepared By: G. T. Chen

4. Persons Contacted and Telephone Number: Mr. David Morton, P. E., Mecklenburg County Engineering Department; (704) 336-3871

5. Directions to Site: From the junction of Beatties Ford Road (SR 2074) and Sample Road (SR 2125) in the northwest section of Mecklenburg County, travel southwest on SR 2125 about 0.9 mile to the entrance of Latta Plantation Park. Proceed on SR 2125 about 0.05 mile from the entrance of the Park to the junction with a dirt road on the left (southeast). Turn left and proceed southeast on the dirt road about 0.7 mile. The site is on the left (northeast) side about 150 feet off the dirt road in a wooded area.

6. Size (land available for expansion and upgrading): Ample land area available for expansion and upgrading.

7. Topography (relationship to 100 year flood plain included): Relatively flat with 1-2% slopes. The site is not in a flood plain.

8. Disposal Site(s), list for all disposal sites:

Latitude: 35° 21' 16" Longitude: 80° 54' 33"

Attach a U.S.G.S. map extract and indicate facility site.

USGS Quad No.: F 15 SW USGS Quad Name: Mountain Island Lake, NC

9. Location of Nearest Dwelling and Water Supply Well: One water supply well for the Park is located approximately 600 feet northeast of the proposed drainfield.

10. Watershed Stream Basin Information:

    a. Watershed Classification: WS-III

    b. River basin and Subbasin No.: Catawba and 03-08-33

    c. Distance to surface water from disposal system: Gar Creek (WS-III) is approximately 2000 feet southeast of the proposed site.

PART II - DESCRIPTION OF DISCHARGE AND TREATMENT WORKS

1. Type of wastewater, sludge or contaminated soil:

    100 % Domestic
    0 % Industrial

    a. Volume: 0.000360 MGD (Design Capacity)

    b. Types and quantities of industrial wastewater: N/A

    c. Prevalent toxic constituents in wastewater: N/A

    d. Pretreatment Program (POTWs only): N/A

    in development — approved
    should be required — not needed

2. Production Rates (industrial discharges only) in Pounds Per Day: N/A

3. Description of Industrial Process (for industries only) and Applicable CFR Part and Subpart: N/A

4. Type of Treatment (specify whether proposed or existing): The proposed on-site treatment and disposal facility for the Latta Plantation Park Caretaker's residence will consist of a 1,500 gallon capacity septic tank, a distribution box and a nitrification field with four (4) 100' x 4" drainlines plus a future repair area.

5. Sludge handling and disposal scheme: Sludge will be removed annually by a septic tank pumper and transported to the Charlotte-Mecklenburg Utility Department's sewer system for final disposal.

6. Treatment Plant Classification: Proposed facility, no rating determined.

7. SIC Code(s): 9999

Wastewater Code(s): N/A

Primary:
Secondary:
Main Treatment Unit Code: N/A

PART III - OTHER PERTINENT INFORMATION

1. Is this facility being constructed with Construction Grant Funds (municipals only)? N/A

2. Special monitoring requests: N/A

3. Air Quality and/or Groundwater concerns or hazardous materials utilized at this facility that may impact water quality, air quality, or groundwater? The proposed waste-flow of 360 GPD is entirely domestic. No hazardous materials will be utilized at this facility. No detrimental impact to the environment is anticipated from this operation. The Groundwater Section may wish to comment on the subject project.

4. Other: Grade boards are required for drainlines.

PART IV - EVALUATION AND RECOMMENDATIONS

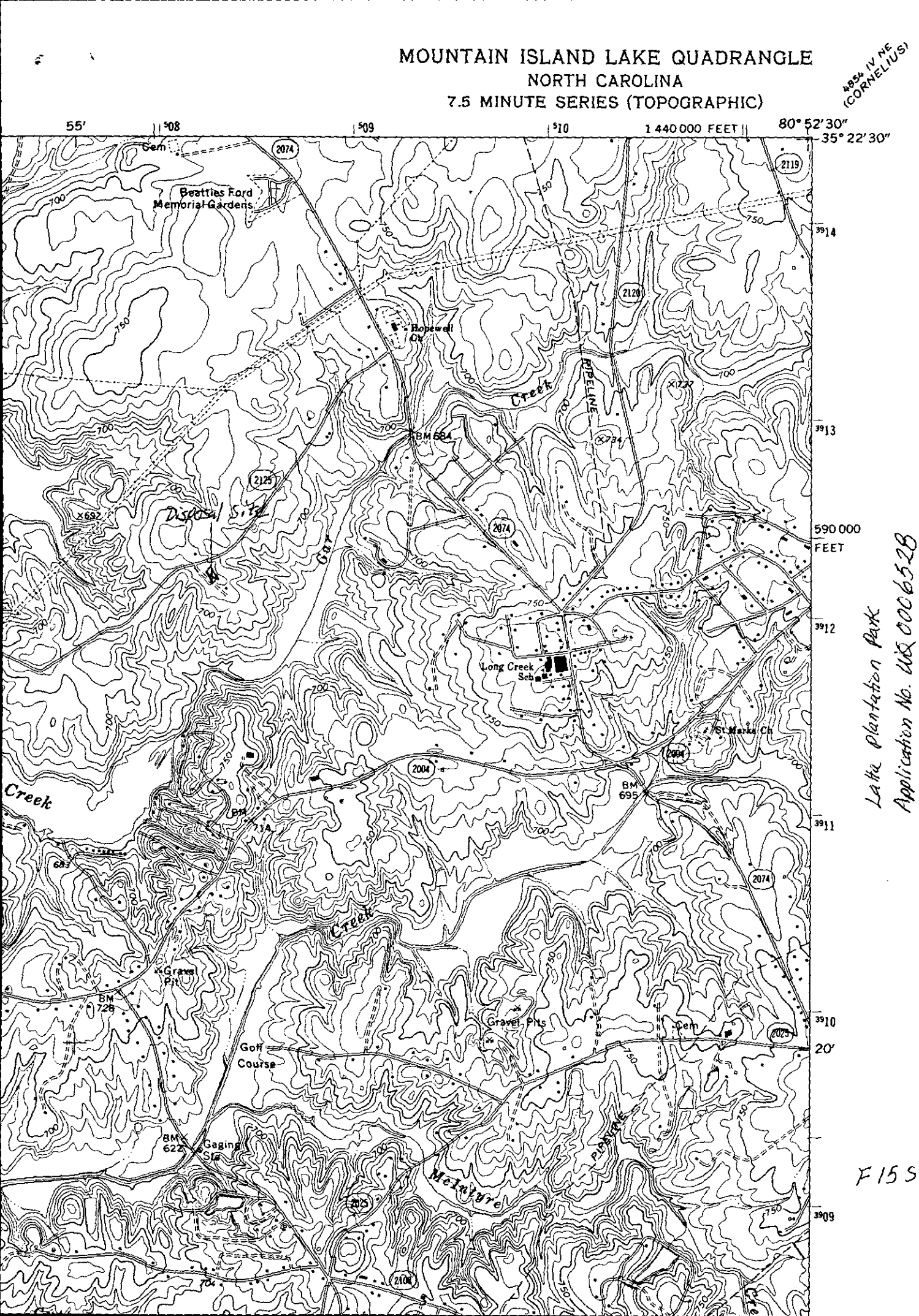
Mecklenburg County proposes to install an on-site treatment and disposal facility to serve a caretaker's residence at the Latta Plantation Park.

An evaluation of the site soil's suitability was performed by Mr. Kelly Randall, Soil Scientist, Division of Environmental Health, Mecklenburg County Health Department. According to Mr. Randall site soil is provisionally suitable for the proposed usage. A loading rate of 0.3 gallon/square foot/day for the nitrification field in trench system was recommended by the County. An on-site investigation performed by staff of this Office confirmed Mr. Randall's evaluation.

Pending final review and concurrence by the State Review Group and the Groundwater Section, it is recommended that a Non-Discharge Permit be issued to the applicant as requested.

Hsiang-Tsih Chen 7-15-92
Signature of Report Preparer Date

D. Ray Stone 7/15/92
Water Quality Regional Supervisor Date



Lake Plantation Park
Application No. WQ 0006528
Mecklenburg County

F15SW

BTC

PERMIT APPLICATION STATUS

Project Name: Mecklenburg County – Latta Plantation

Permit No.: NC00 WQ0006528

MRO No.: 92-124

Date Application Received: 7/8/92

Completeness of Application Package: Yes ✓ No ____

Date of Investigation: 7/14/92

Date SR Submitted for Review: 7/15/92

Information Requested

Date Rqst.	Person Contacted	Telephone #	Info. Rqst.	Date Recvd.

Other:

MECKLENBURG COUNTY

Engineering Department

May 19, 1992

Mr. Randy Jones
North Carolina Division of
Environmental Management
Water Quality Section
Permits and Engineering Unit
512 Salisbury Street
Raleigh, North Carolina 27626-0535

RECEIVED
DEHNR-DEM-WQ
PERMITS & ENGIN. UNIT
92 MAY 21 AM 11:22

Subject: Latta Plantation Park Caretaker's Facility
Septic Tank Permit Application

Dear Mr. Jones:

Enclosed is a revised septic tank permit application package which has been modified per your May 1, 1992 letter as follows:

1) The loading application rate of 0.3 gpd/Sq. Ft. has been added to the Soil Scientist Report (Serial No. 12570).

2) The approximate distance from the facility to the nearest property line has been added to the drawings.

If you have any questions or need additional information, please call me at (704) 336-3871.

Sincerely,

David Morton

David Morton
Project Manager

DM:sr

Enclosure

Mecklenburg County
Health Department

March 30, 1992

Mecklenbury County
700 N. Tryon Street
Charlotte, NC 28202

RE: Property located on 6300 Sample Road
FILE: 8129A (237B)
PARCEL: 023-071-01

Dear Mr. Morton:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The property was found to contain a limited area of soils which were classified as PROVISIONALLY SUITABLE for such an installation. A copy of the Site Evaluation Report (Serial Number 12570) is enclosed for your information.

While this classification indicates the site is acceptable for the installation of a septic tank system, no specific system or plans have been approved. The area available for such an installation may impose limitations on the size and/or type construction permitted on the lot. Specific plan approval will be provided upon submission of an Application for an Improvement Permit with an **ACCURATELY** dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems and determination that the area is adequate to accommodate the proposed construction.

Please note that this classification may be revoked if any filling, grading or construction (including the drilling of a well) is performed on the lot which in the opinion of this department renders any area previously designated suitable for system installation, unsuitable. Furthermore, this approval may be revoked should any changes occur in the regulations under which it was granted, if such changes would have prevented its approval had they been in effect on the date of issuance.

If there are any questions concerning this matter, please contact me at 336-5573.

Sincerely,

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems
GW:lw

Enclosure

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
SITE EVALUATION REPORT
SERIAL NUMBER № 12570

File: 8129 A / 237 B Action 1

Parcel: 023-071-01 ☐ PC

Location: 6300 SAMPLE ROAD

Subdivision:

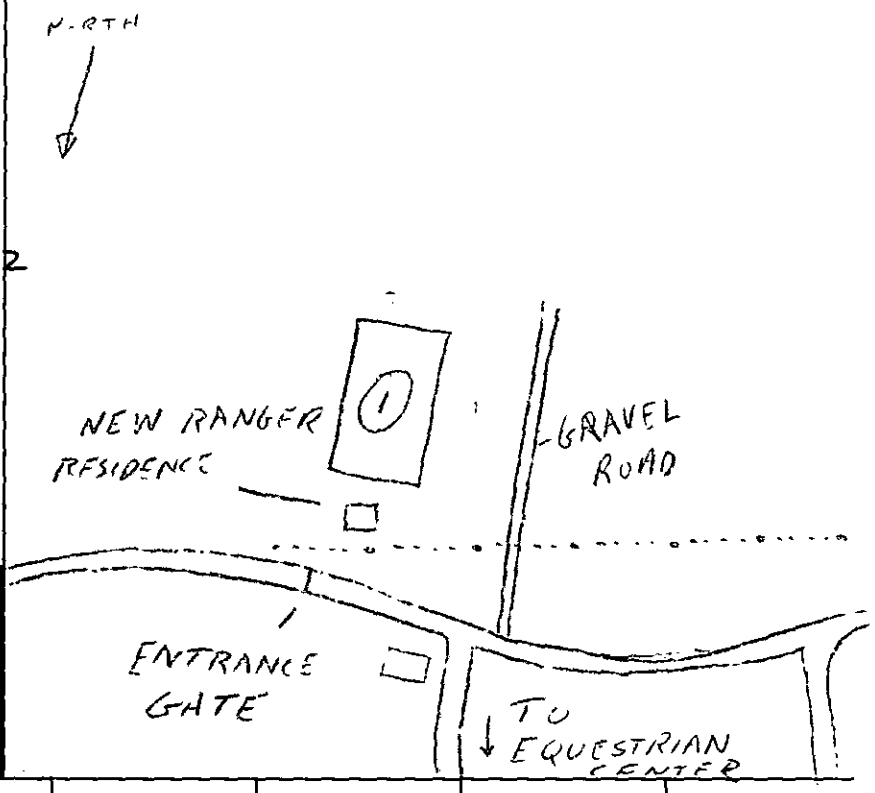
Lot: Block: Acres: ± 10

Owner: MECKLENBURG COUNTY
Address: 700 N TRYON ST
CHARLOTTE NC 28202
ATTN. DAVID MORTON

Comments: Application rate .3 gpd/Ft²
LONG TERM ACCEPTANCE RATE
Kelly Rwall 5-15-92

Described by: [illegible]

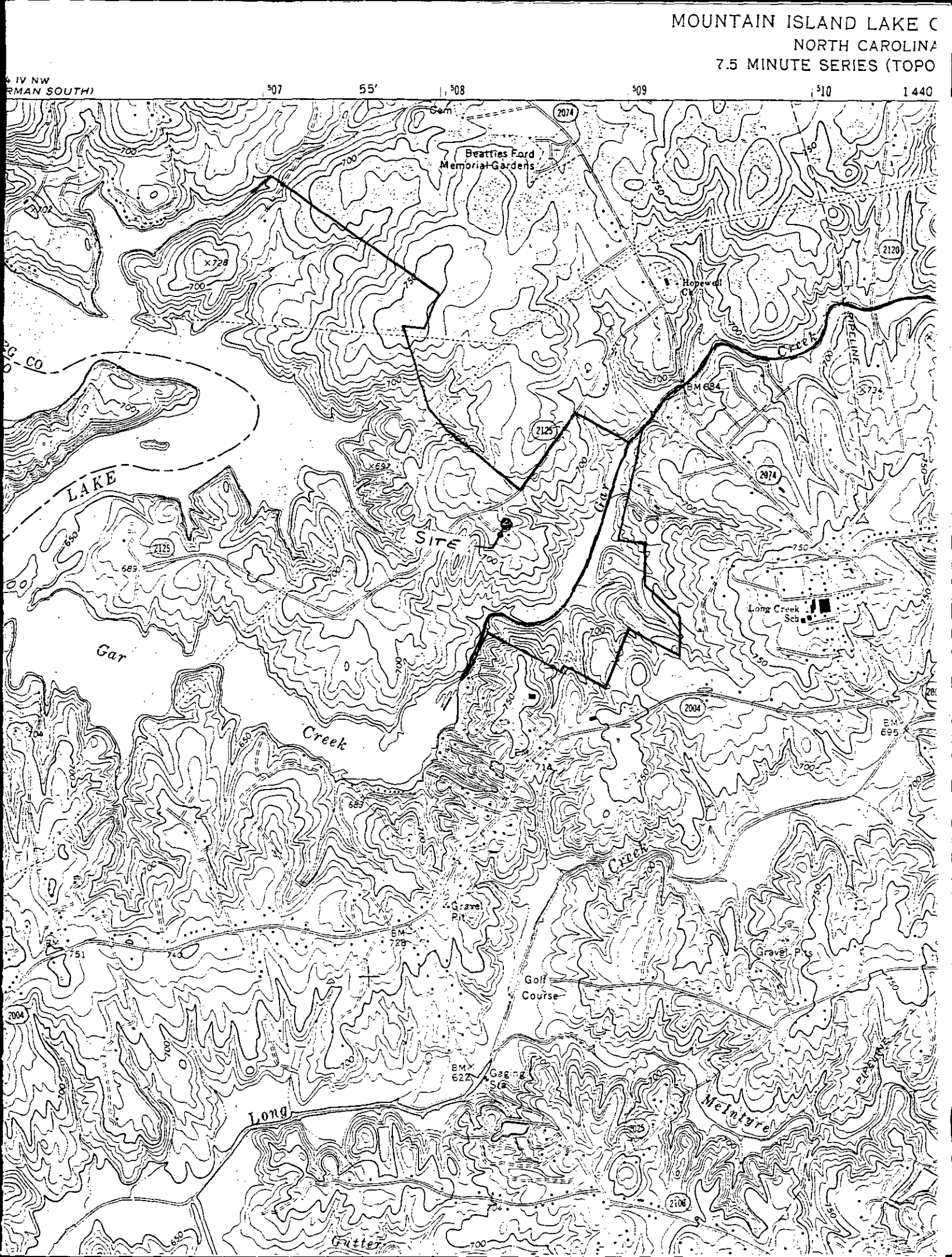
Date: 3-2-92



***** EVALUATION KEY *****

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U SLIGHTLY EXCESSIVE CLAY	S PS U	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U SUB. MODERATE BLOCKY	S PS U	S PS U	S PS U	S PS U	S PS U
Drainage	(S) PS U >40"	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	(S) PS U >19"	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S PS U NONE	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	(S) PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	CECIL					
Area Classification	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U


IV NW
RMAN SOUTH)
507
55'
508
509
510
1 440
Gem
Beatties Ford
Memorial Gardens
2074
2120
Hopewell
Ch
PIPELINE
Creek
BM 684
2125
LAKE
SITE
Long Creek
Sch
Gar
Creek
BM
714
BM
695
2004
Gravel
Pit
BM
728
Gravel Pits
Golf
Course
BM
622
Gaging
Sta
Long
Melntyre
Creek
Gutter
2106

UNITED STATES
MENT OF THE INTERIOR
EOLOGICAL SURVEY



Division of Environmental Management

6/29/90
Date

MEMORANDUM

To: Bob Cheek, Supervisor
Permits & Compliance Unit
Groundwater Section

From: Dana J. Bolda, Project Engineer
Permits & Engineering Unit
Water Quality Section

Subject: Groundwater Review
Non-Discharge Application No. WQ0006578
Facility Name: Mecklenburg Co - Latta Plantation Park
County: Mecklenburg
(GW # _____)

Attached you will find plans, specifications, and supporting information for the above project.

Please let me know whether you will or will not be conducting an extensive review of the subject project by _____ .

If I can provide additional information, please contact me at ext. _____.

• • • •

```
                    NON NPDES FACILITY AND PERMIT DATA
 UPDATE    OPTION      TRXID  50U  KEY WQ0006528

PERSONAL DATA FACILITY APPLYING FOR PERMIT  APP/PERMIT FEE-$    240.00   REGION
 FACILITY NAME> MECKLENBURG CO-LATTA PLANTATI3  COUNTY> MECKLENBURG        03
 ADDRESS:          MAILING (REQUIRED)  ENGINEER: MECKLENBURG CO ENG.DEPT.
  STREET: 700 N. TRYON ST.                STREET:
    CITY: CHARLOTTE       ST NC ZIP 28202  CITY:                 ST    ZIP     0
 TELEPHONE 704 336  2713                TELEPHONE:
 STATE CONTACT> BOLDEN                   FACILITY CONTACT BOBBIE SHIELDS
TYPE OF PROJECT> SUBSURFACE DISPOSAL FACILITY   LAT:          LONG:
DATE APP RCVD         05/21/92     N=NEW,M=MODIFICATION,R=REISSUE> N
DATE ACKNOWLEDGED     05/28/92     DATE REVIEWED     /  /   RETURN DATE    /  /
REG COMM REQS           /  /       DATE DENIED       /  /   NPDES #- _________
REG COMM RCVD           /  /       DATE RETURNED     /  /   TRIB Q        .0000 MGD
ADD INFO REQS           /  /       OT AG COM REQS    /  /   TRIB DATE-    /  /
ADD INFO RCVD           /  /       OT AG COM RCVD    /  /
END STAT APP P        08/19/92     DATE ISSUED       /  /   DATE EXPIRE    /  /

FEE CODE(    )1=(>1MGD),2=(>10KGD),3=(>1KGD),4=(<1KGD+SF),5=(S>300A),6=(S<=300A),
7=(SENDEL),8=(SEDEL),9=(CLREC),0=(NO FEE) DISC CODES                  ASN/CHG PRMT
ENG CERT DATE     /  /    LAST NOV DATE     /  /    CONBILL(    )
COMMENTS:
MESSAGE:  *** ENTER DATA FOR UPDATE ***
```

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27604
James G. Martin, Governor
William W. Cobey, Jr., Secretary
George T. Everett,Ph.D.
Director

May 28, 1992

MR BOBBIE SHIELDS
MECKLENBURG COUNTY
700 N. TRYON STREET
CHARLOTTE, NORTH CAROLINA 28202

Subject: Application No. WQ0006528
Latta Plantation
Subsurface Disposal Facility
Mecklenburg County

Dear MR SHIELDS:

The Division's Permits and Engineering Unit acknowledges receipt of your permit application and supporting materials on May 21, 1992. This application has been assigned the number shown above. Please refer to this number when making inquiries on this project.

Your project has been assigned to Dana Bolden for a detailed engineering review. A technical acknowledgement will be forthcoming.

Be aware that the Division's regional office, copied below, must provide recommendations from the Regional Supervisor or a Procedure Four Evaluation for this project, prior to final action by the Division.

If you have any questions, please contact Dana Bolden at (919) 733-5083.

Sincerely,

Donald Safrit, P.E.
Supervisor, Permits and Engineering Unit

cc: Mooresville Regional Office
Mecklenburg Co. Eng. Dept.

Name and Complete Address of Engineering Firm: Mecklenburg County Engineering Dept.
700 North Tryon Street

City: Charlotte State: NC Zip: 28202

Telephone No. (704) 336-3871

Professional Engineer's Certification:

I, David K. Morton, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

North Carolina Professional Engineer's Registration No. 7941

Print Name of Engineer DAVID K. MORTON

Seal and Signature (specify date):

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

David K. Morton

4-6-92

Applicant's Certification:

I, Bobbie Shields, attest that this application for Latta Plantation Park Caretaker's Facility has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.

Signature Bobbie Shields Date 4-8-92

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT
WATER QUALITY SECTION
PERMITS AND ENGINEERING UNIT
POST OFFICE BOX 29535
512 NORTH SALISBURY STREET
RALEIGH, NORTH CAROLINA 27626-0535
TELEPHONE NUMBER: 919/733-5083

PERMIT APPLICATION PROCESSING FEES

(effective October 1, 1990)

CATEGORY	NEW APPLICATIONS/ MODIFICATIONS	RENEWALS WITHOUT MODIFICATIONS
> 1,000,000 GPD		
Industrial	$400	$300
Domestic/Cooling Water	$400	$300
10,001 - 1,000,000 GPD		
Industrial	$400	$250
Domestic/Cooling Water	$400	$250
1,001 - 10,000 GPD		
Industrial	$400	$200
Domestic/Cooling Water	$400	$200
< or = 1,000 GPD and Single Family Dwelling	$240	$120
Sludge < or = 300 Acres	$400	$250
Sludge > 300 Acres	$400	$250
Sewer Extensions (nondelegated)	$400	0
Sewer Extensions (delegated)	$200	0
Closed-Loop Recycle or Evaporative	$400	$200

NOTE: The Fees for Soil Remediation Projects are the same as for Sludges.

Under the Sewer Extension Fee, "delegated to municipalities" applies only to those governmental jurisdictions that have specific delegation review authority, as granted by the Division of Environmental Management.

TO: REGIONAL WATER QUALITY SUPERVISOR

Please provide me with the classification of the surface waters identified in number 5 below and on the attached map segment:

Name of surface waters: GAR CREEK

Classification (as established by the Environmental Management Commission): WS-III

Proposed Classification, if applicable: N/A

Signature of regional office personnel: Michael L. Parker Date: 4-7-92

INSTRUCTIONS TO ENGINEER

In order to determine whether provisions for dual or standby power may be required for the subject facility, the classification of the closest downslope surface waters (the surface waters that any overflow from the facility would flow toward) must be determined. You are required to submit this form, with items 1 through 10 completed, to the appropriate Division of Environmental Management Regional Water Quality Supervisor (see attached listing). At a minimum, you must include an 8.5" by 11" copy of the portion of a 7.5 minute USGS Topographic Map which shows the subject surface waters. You must identify the location of the facility and the closest downslope surface waters (waters for which you are requesting the classification) on the submitted map copy. The application may not be submitted until this form is completed and included with the submittal.

1. Applicant (corporation, individual, or other): Mecklenburg County
2. Name and Complete Address of Engineering Firm: Meck. Co. Engineering Dept.
   700 North Tryon Street
   City: Charlotte State: NC Zip: 28202
   Telephone No. (704) 336-3871
3. Project Name: Latta Plantation Park Caretaker's Residence
4. Facility design flow: 360 GPD
5. Name of closest downslope surface waters: Gar Creek
6. County(s) where project and surface waters are located: Mecklenburg
7. Map name and date: Mount, Island Lake, N.C.; 1969
8. North Carolina Professional Engineer's Registration No. 7941
9. Print Name of Engineer DAVID K. MORTON
10. Seal and Signature (specify date):

NORTH CAROLINA PROFESSIONAL SEAL 7941 ENGINEER DAVID K. MORTON

David K. Morton

4-6-92

DIVISION OF ENVIRONMENTAL MANAGEMENT REGIONAL OFFICES (4/91)

Asheville Regional WQ Super.
59 Woodfin Place
Asheville, NC 28802
704/251-6208

Avery	Macon
Buncombe	Madison
Burke	McDowell
Caldwell	Mitchell
Cherokee	Polk
Clay	Rutherford
Graham	Swain
Haywood	Transylvania
Henderson	Yancy
Jackson	

Washington Regional WQ Super.
P O Box 1507
Washington, NC 27889
919/946-6481

Beaufort	Jones
Bertie	Lenoir
Camden	Martin
Chowan	Pamlico
Craven	Pasquotank
Currituck	Perquimans
Dare	Pitt
Gates	Tyrell
Greene	Washington
Hertford	Wayne
Hyde	

Raleigh Regional WQ Super.
3800 Barrett Dr., Suite 101
Raleigh, NC 27609
919/733-2314

Chatham	Nash
Durham	Northampton
Edgecombe	Orange
Franklin	Person
Granville	Vance
Halifax	Wake
Johnston	Warren
Lee	Wilson

Fayetteville Regional WQ Super.
Wachovia Building, Suite 714
Fayetteville, NC 28301
919/486-1541

Anson	Moore
Bladen	Robeson
Cumberland	Richmond
Harnett	Sampson
Hoke	Scotland
Montgomery	

Mooresville Regional WQ Super.
919 North Main Street
Mooresville, NC 28115
704/663-1699

Alexander	Mecklenburg
Cabarrus	Rowan
Catawba	Stanly
Gaston	Union
Iredell	Cleveland
Lincoln	

Wilmington Region. WQ Super.
127 Cardinal Drive Extension
Wilmington, NC 28405-3845
919/395-3900

Brunswick	New Hanover
Carteret	Onslow
Columbus	Pender
Duplin	

Winston-Salem Regional WQ Super.
8025 North Point Boulevard, Suite 100
Winston-Salem, NC 27106
919/761-2351

Alamance	Rockingham
Alleghany	Randolph
Ashe	Stokes
Caswell	Surry
Davidson	Watauga
Davie	Wilkes
Forsyth	Yadkin
Guilford	

h. For systems treating industrial waste or any system with a design flow greater than 25,000 GPD a hydrogeologic and soils description of the subsurface to a depth of twenty feet or bedrock, whichever is less. The number of borings shall be sufficient to determine significant changes in lithology, the vertical permeability of the unsaturated zone and the hydraulic conductivity of the saturated zone, depth to the mean seasonal high water table, and a determination of transmissivity and specific yield of the unconfined aquifer.

i. Proposal for groundwater monitoring.

j. Information on the location, construction details, and primary usage of all wells within 500 feet of the treatment/disposal facilities.

k. For industrial waste a complete chemical analysis of the typical wastewater to include, but not be limited to Total Organic Carbon, BOD, COD, Chlorides, Phosphorus, Ammonia, Nitrates, Phenol, Total Trihalomethanes, Toxicity Test Parameters, Total Halogenated Compounds, Total Coliforms, and Total Dissolved Solids.

e) 10 feet between the disposal area and any surface water interceptor drains or diversions (upslope);

f) 25 feet between the disposal area and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems;

g) 20 feet between disposal area and any other subsurface disposal area except the repair area.

21. If any of the applicable buffers are are not being met, please explain how the proposed buffers will provide equal or better protection of the Waters of the State with no increased potential for nuisance conditions: N/A

THIS APPLICATION PACKAGE WILL NOT BE ACCEPTED BY THE DIVISION OF ENVIRONMENTAL MANAGEMENT UNLESS ALL OF THE APPLICABLE ITEMS ARE INCLUDED WITH THE SUBMITTAL

Required Items

a. One original and three copies of the completed and appropriately executed application form.

b. The appropriate permit processing fee, in accordance with 15A NCAC 2H .0205(c)(5).

c. Five sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer. The plans must include a general location map, a topographic map, a site map which indicates where borings or hand auger samples were taken, a map showing the treatment/disposal facilities, buffers, structures, and property lines; along with all wells, surface waters (100-year flood elevation), and surface drainage features within 500 feet of the treatment/disposal facilities. Each sheet of the plans and the first page of the specifications must be signed and sealed.

d. Five copies of an Operational Agreement (original and 4 copies) must be submitted if the wastewater treatment and disposal facilities will be serving single family residences, condominiums, mobile homes, or town houses and if the subject facilities will be owned by the individual residents, a homeowners association, or a developer.

e. Five copies of all reports, evaluations, agreements, supporting calculations, etc., must be submitted as a part of the supporting documents which are signed and sealed by the North Carolina Professional Engineer. Although certain portions of this required submittal must be developed by other professionals, inclusion of these materials under the signature and seal of a North Carolina Professional Engineer signifies that he has reviewed this material and has judged it to be consistent with his proposed design.

f. Five copies of the existing permit if a renewal or modification.

g. A soils scientist report which includes texture, color, and structure of soils down to a depth of seven feet, depth, thickness and type of any restrictive horizons, hydraulic conductivity in the most restrictive horizon, cation exchange capacity (CEC), depth of seasonal high water table, soil pH, soils map (if available), and recommended loading rates. This report must be signed by the soils scientist..