

6809 JOLI CHEVAL LN

19507314

1/10/2008

duponbj

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

FEE: 300.00

DATE: 11/29/2006

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 6653B

PERMIT NUMBER: 30001123

PARCEL NUMBER: 195-073-14 ~~[illegible]~~

JOB LOCATION INFORMATION

ADDRESS: 6809 JOLI CHEVAL LN

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: MORITZ PROPERTIES

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 11/29/2006

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30001123, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 9/11/2011

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	09/12/06	**Amount:**	150.00
Receipt #:	45954	**Tendered:**	0.00
Check / Auth #:	VISA 802180	**Returned:**	0.00
Received By:	AIDOOJK		

Account Information

Account #: 200000
Contractor: MORITZ PROPERTIES LLC
Attn:
Address: 1228 E. MOREHEAD STREET
Address:
City/State/Zip: CHARLOTTE, NC 28204

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 6809 JOLI CHEVAL		1	150.00	150.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 09/12/06
Receipt #: 45955
Check / Auth #: VISA 802180
Received By: AIDOOJK

Amount: 150.00
Tendered: 0.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: MORITZ PROPERTIES
Attn:
Address: 1228 E. MOREHEAD STREET
Address:
City/State/Zip: CHARLOTTE, NC 28204

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 6809 JOLI CHEVAL		1	150.00	150.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St. Suite 211 Charlotte, NC 28202
Phone: (704) 336-5163 Fax: (704) 336-8804

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30001123 GWS File #: 66538 Tax Parcel #: 195-081-06

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire In Five (5) Years Expiration Date (If Applicable): 9/11/2011

Type of Installation: Residential - New System Lot Number: 0

Structure Type: HOUSE Size (ft^2): 1500 # Bedrooms: 1 # Occupants: 2

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Pump to Innovative or Experimental System Classification: IIIb

Initial System Specifications:

Design Flow (gpd): 200 LTAR (gpd/ft^2): 0.5 Septic Tank Size (gal): 1000 Pump Tank Size (gal): 1000

Trench Width (ft): 3 Trench Spacing (ft): 8 Absorption Area (ft^2): 500 Total Trench Length (ft): 167

Maximum Trench Depth (in): 16 Depth of Media (in): 12 Distribution Device: Drop Boxes

III. Repair System Type: Pump to Innovative or Experimental System Classification: IIIb

Repair System Specifications:

Design Flow (gpd): 200 LTAR (gpd/ft^2): 0.5 Septic Tank Size (gal): 1000 Pump Tank Size (gal): 1000

Trench Width (ft): 3 Trench Spacing (ft): 8 Absorption Area (ft^2): 500 Total Trench Length (ft): 167

Maximum Trench Depth (in): 36 Depth of Media (in): 12 Distribution Device: Drop Boxes

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Philip Walker Owner/Legal Agent: Keith Paris

Signature: Philip L Walker III Signature: Keith Paris

Date Issued: 9/11/2006

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St. Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-5894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30001123 GWS File #: 8653B

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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DENR Authorized Agent: Phil Walker

Signature: Phil Walker PS

Date Issued: 8/11/2006

Owner/Legal Agent: Keith Paris
Print Name

Signature:

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

195-073-14

Permit #: **30001123** GWS File #: **6653B** Tax Parcel #: [redacted]

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Structure Type: HOUSE Size (ft^2): 1500 # Bedrooms: 1 # Occupants: 2

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Pump to Innovative or Experimental **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	200	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	500	Total Trench Length (ft):	167
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Drop Boxes		

III. Repair System Type: Pump to Innovative or Experimental **System Classification:** IIIb

Repair System Specifications:

Design Flow (gpd):	200	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	500	Total Trench Length (ft):	167
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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Philo Walker

Signature: Philo A. Walker RS

Date Issued: 9/11/2006

Owner/Legal Agent: _____
Print Name

Signature: _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001123** GWS File #: **6653B**

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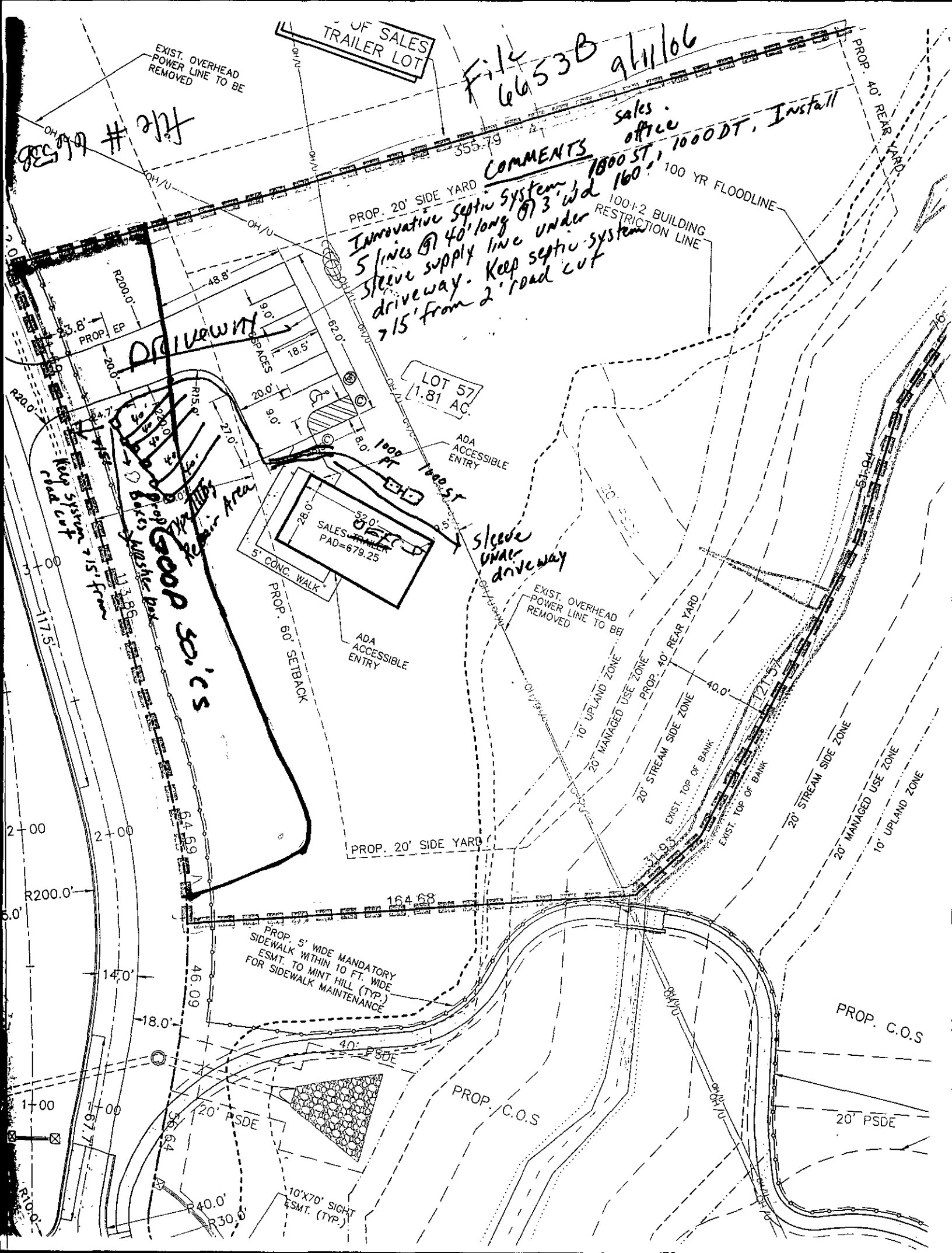
DENR Authorized Agent: Philo Walker

Signature: Philo Walker FS

Date Issued: 9/11/2006

Owner/Legal Agent: _____
Print Name

Signature: _____


File 66538 9/11/06
COMMENTS
Innovative septic system
5 lines @ 40' long @ 3' wd
1000 ST, 1000DT. Install
sales office
Sleeve supply line under driveway. Keep septic system 15' from 2' road cut
EXIST. OVERHEAD POWER LINE TO BE REMOVED
OF SALES TRAILER LOT
355.79
PROP. 40' REAR YARD
PROP. 20' SIDE YARD
100 YR FLOODLINE
100-1-2 BUILDING RESTRICTION LINE
R200.0'
48.8'
9.0'
62.0'
18.5'
20.0'
9.0'
SPACES
PROP. EP
23.8'
20.0'
Driveway
LOT 57
1.81 AC.
R15.0'
27.0'
40'
8.0'
1000 ST
1000 DT
ADA ACCESSIBLE ENTRY
28.0'
52.0'
SALES TRAILER PAD=679.25
5' CONC. WALK
Keep system 15' from road cut
Prop Garage
Typ. Utility Repair Area
Sleeve under driveway
PROP. 60' SETBACK
ADA ACCESSIBLE ENTRY
EXIST. OVERHEAD POWER LINE TO BE REMOVED
10' UPLAND ZONE
20' MANAGED USE ZONE
PROP. 40' REAR YARD
40.0'
121.57'
20' STREAM SIDE ZONE
EXIST. TOP OF BANK
31.93'
61.94'
117.5'
113.86'
64.69'
PROP. 20' SIDE YARD
164.68'
R200.0'
PROP. 5' WIDE MANDATORY SIDEWALK WITHIN 10 FT. WIDE ESMT. TO MINT HILL (TYP.) FOR SIDEWALK MAINTENANCE
46.09'
14.0'
18.0'
40' PSDE
20' PSDE
PROP. C.O.S
67.77'
R40.0'
R30.0'
10'X70' SIGHT ESMT. (TYP.)
R10.0'
3+00
2+00
1+00

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 195-073-14
Lot #: 57
File #: 6653B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Moritz Properties, LLC
Applicant: Keith Paris
Address: 1228 E. Morehead St., Charlotte, N. C. 28204
Date Evaluated: 8/10/06
Proposed Facility: Sales office
Design Flow (.1949): 50gpd
Property Size: 1.5a
Location of Site: 6809 Joli Cheval
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 10	0-6	GR/CL	FR/SEXP/SS/SP	>41" TO SOIL WETNESS	41	N/A	NONE	PS, IV .3GPD/FT^2
		6-35	SBK/C	FI/SEXP/S/P					
		35-41	SBK/CL	FR/SEXP/SS/SP					
2	"	0-10	DISTURBED		>37" TO SOIL WETNESS	37	"	"	"
		10-30	SBK/C	FI/SEXP/S/P					
		30-37	SBK/CL	FR/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT

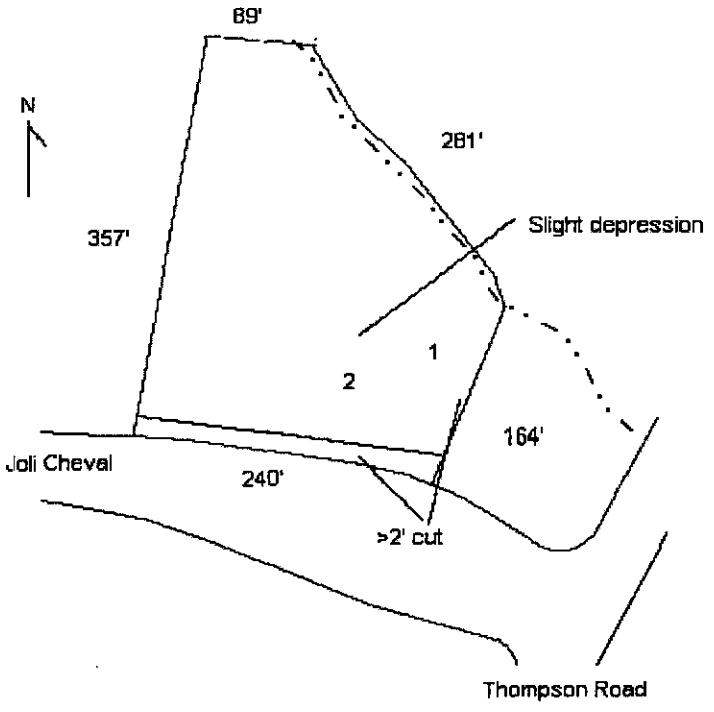
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 8/10/2006, W. R. Marlin
Others Present:

COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace				
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



1123

GWS – RES. APP 07/05

SEPTIC FEE: 200.00
DATE: 7/10/06
CRT [ ] Check 1140 JKA

PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION FOR ON-SITE WASTEWATER SYSTEM NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

FILE # 6653B

WELL FEE: _____
DATE: _____
CRT [ ]

SEPTIC TYPE APPLICATION: ☐ NONE ☒ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFY PLOT PLAN

WELL / TYPE APPLICATION: ☐ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 195-073-14
STREET ADDRESS: 6809 Joli Cheuac
CITY: Mint Hill N.C
STATE: NC ZIP:
SUBDIVISION OR MOBILE HOME PARK NAME: Bains Farm
LOT #: 57
TOWNSHIP:

☐ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☐ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☒ 7-MINT HILL

BUILDING INFORMATION:

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☒ HOUSE (H) ☐ OTHER

HEATED SQUARE FOOTAGE: 1500 SF
NUMBER OF BEDROOMS: X NO Bedroom/Sales Office
NUMBER OF OCCUPANTS: X 2

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☒ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☐ NO TYPE:

WATER SUPPLY: CMUD

☒ MUNICIPAL (M) ☐ PUBLIC (C) ☐ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☒ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☒ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☒ NO	DESIGNATED WETLANDS	☐ YES	☒ NO
EASEMENTS OR RIGHT-OF-WAYS	☒ YES	☐ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☐ NO

PROPERTY OWNER:

NAME: Moritz Properties LLC
ADDRESS: 1228 E. Morehead
CITY: Charlotte NC 28204
STATE: ZIP: 704
HOME PHONE: 841-2239 WORK PHONE: 373-9996
MOBILE PHONE: 2019466 FAX: 373 1117

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: KEITH PARIS
ADDRESS: SAME
CITY:
STATE: ZIP:
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?

WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. 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 the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

7-10-06
Owner's/Agent's Signature Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. 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 the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202 704-336-5103 / FAX: 704-336-6894

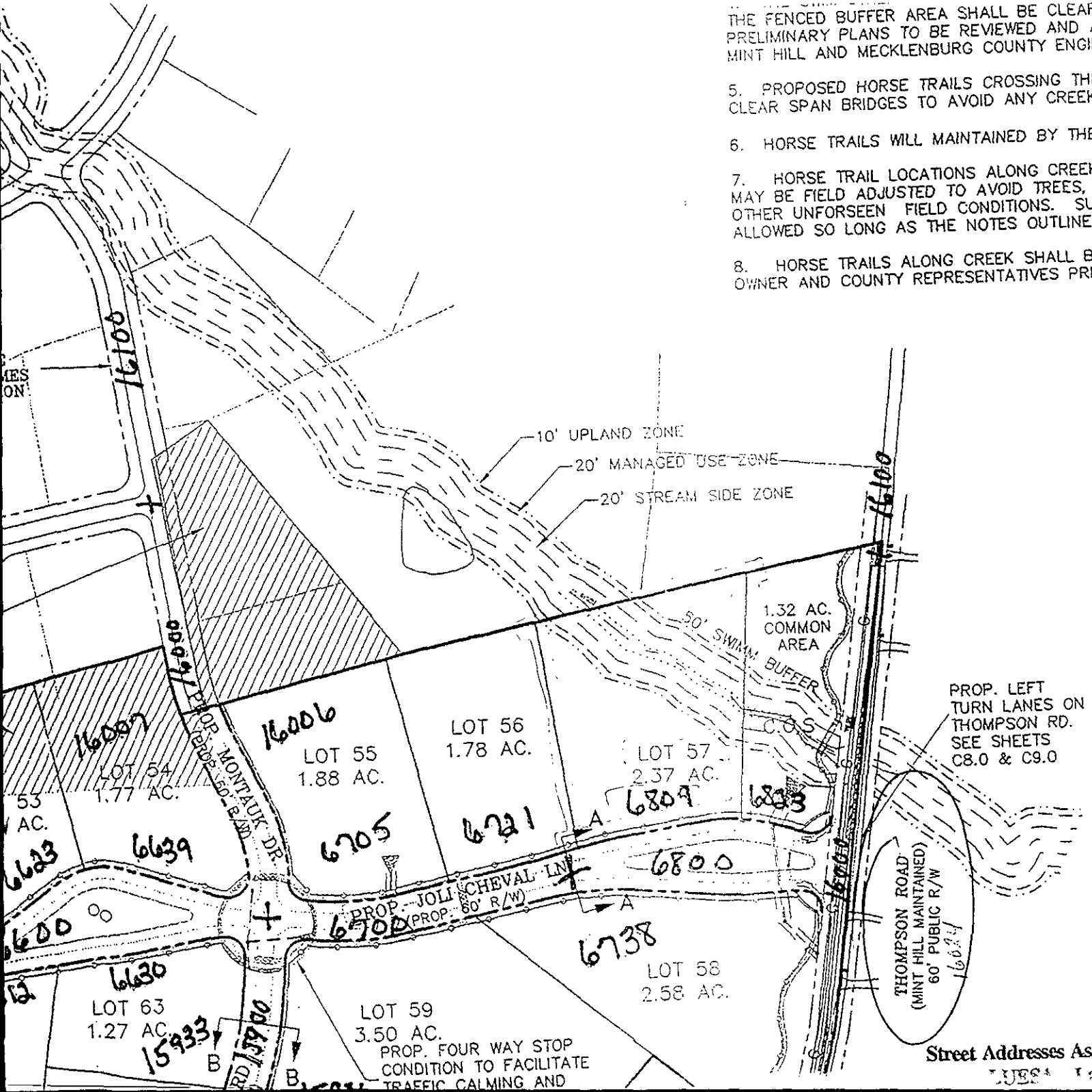
THE FENCED BUFFER AREA SHALL BE CLEARLY MARKED ON THE PRELIMINARY PLANS TO BE REVIEWED AND APPROVED BY THE TOWN OF MINT HILL AND MECKLENBURG COUNTY ENGINEERING.

5. PROPOSED HORSE TRAILS CROSSING THE CREEK WILL BE MADE BY CLEAR SPAN BRIDGES TO AVOID ANY CREEK IMPACTS.

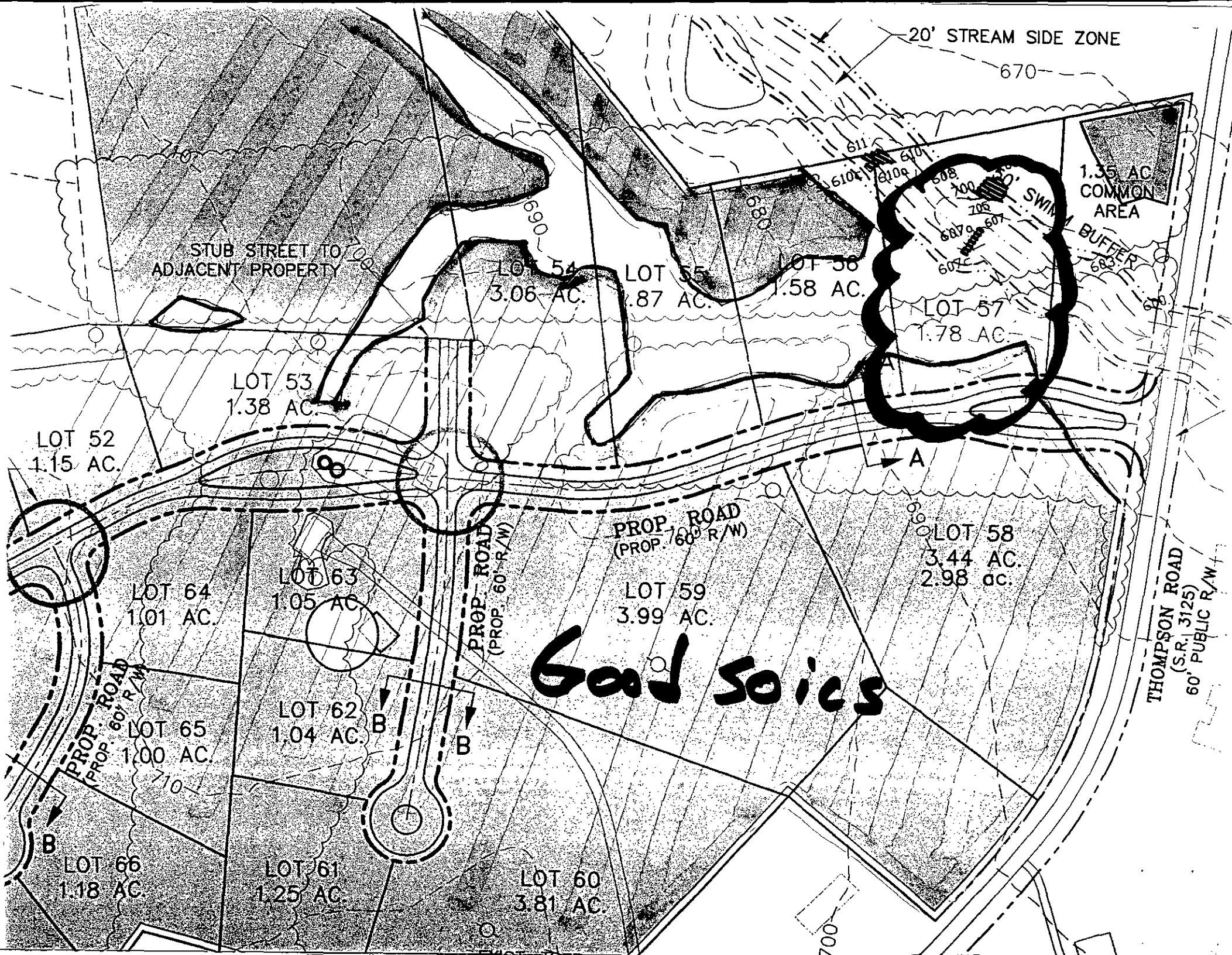
6. HORSE TRAILS WILL MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.

7. HORSE TRAIL LOCATIONS ALONG CREEK AREA APPROXIMATE. TRAILS MAY BE FIELD ADJUSTED TO AVOID TREES, SEVERE TOPO, ROCKS, AND OTHER UNFORSEEN FIELD CONDITIONS. SUCH REVISIONS SHALL BE ALLOWED SO LONG AS THE NOTES OUTLINED ABOVE ARE MAINTAINED.

8. HORSE TRAILS ALONG CREEK SHALL BE FLAGGED AND REVIEWED BY OWNER AND COUNTY REPRESENTATIVES PRIOR TO CONSTRUCTION.



Street Addresses Assigned by Mecklenburg County
Land Records/Addressing


20' STREAM SIDE ZONE
670
690
710
STUB STREET TO ADJACENT PROPERTY
LOT 54
3.06 AC.
LOT 55
.87 AC.
LOT 56
1.58 AC.
LOT 57
1.78 AC.
1.35 AC. COMMON AREA
SWIM
BUFFER
LOT 53
1.38 AC.
LOT 52
1.15 AC.
A
A
PROP. ROAD
(PROP. 60' R/W)
PROP. ROAD
(PROP. 60' R/W)
LOT 58
3.44 AC.
2.98 ac.
LOT 64
1.01 AC.
LOT 63
1.05 AC.
LOT 59
3.99 AC.
God soics
PROP. ROAD
(PROP. 60' R/W)
LOT 65
1.00 AC.
LOT 62
1.04 AC.
B
B
B
THOMPSON ROAD
(S.R. 3125)
60' PUBLIC R/W
LOT 66
1.18 AC.
LOT 61
1.25 AC.
LOT 60
3.81 AC.

Received
JUL 23 1992

S&EC

Soil & Environmental Consultants, PA

236 LePhillip Court, Suite C • Concord, North Carolina 28025 • Phone: (704) 720-9405 • Fax: (704) 720-9406
www.SandEC.com

December 15, 2004
Job #5-1424s4

Paris Family, LLC
Attn: Keith Paris
1228 E. Morehead Street
Suite 101
Charlotte, NC 28204

Re: Soil suitability for ±120-acre Green Acres Tract (PhaseIII)/Henderson-Crump Tract (Phase III) Mecklenburg County, NC

Soil and Environmental Consultants, PA (S&EC) has performed a detailed soil/site evaluation on property totaling approximately 120-acres in Mecklenburg County known as the Green Acres, Henderson and Crump Tracts. The properties are located at adjacent to the Kennedy and Reynolds Tracts, previously evaluated by S&EC, near Mint Hill. At your request the evaluation was performed to evaluate soil areas for subsurface wastewater disposal. The properties evaluated were those outlined as roughly 70-acre and 50-acre parcels according to the Mecklenburg County GIS.

S&EC walked over the property, taking note of the land (slope, drainage patterns, past use, etc.) as well as soil conditions (depth, texture, structure, seasonal wetness, restrictive horizons, etc.) through hand auger borings. The site was evaluated during dry soil conditions. From these observations an evaluation of the site relative to subsurface wastewater disposal was developed. The soil/site evaluation criteria used was that contained in 15 A NCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems".

FINDINGS

The subject property occurs in eastern Mecklenburg County near Mint Hill. The majority of the upland soils were most similar to the Cecil series. These soils contain sandy loam surfaces over red clay subsoils generally suitable for supporting subsurface septic systems. We identified soil areas provisionally suitable for supporting Low Pressure-Pipe (LPP), at-grade conventional, and conventional septic systems. Much of the usable soil area had potential to support panel block septic systems. This particular

system requires deep usable soil and allows for a 50% reduction in the area for a gravel system. The usable soil areas are shown as hatched polygons on the attached soil map.

Unsuitable soil areas were also identified during our evaluation. Unsuitable soils contained either expansive clay subsoils, evidence of soil wetness mottles, or unsuitable topography. A drinking well was identified on the Henderson Tract (see map). Wells require a minimum 50-foot setback to on site septic systems. Usable soil areas around the well can be used if the well is successfully abandoned. Other areas labeled as unsuitable on the Henderson Tract included an existing house, barns, and other structures.

Once potentially usable areas are identified, the next consideration is the horizontal extent (size) of those areas. The size and configuration of the usable soil area dictate how many systems an area can support. The size of a subsurface septic field is determined by; 1) the design flow (120 gallons/bedroom/day in residences), and 2) long term acceptance rate (LTAR) of the soil (based on the hydraulic conductivity of the soil, a function of the soil's texture, mineralogy, structure, porosity, etc.). The configuration of the soil area must be such that an efficient layout of drain lines (on contour) is possible and not contain unsuitable topography. An additional consideration is the required setbacks for the system from various elements such as wells (100'), streams and ponds (50') or more depending on watershed regulations, property lines (10'), top of embankment (15'), watershed buffers, etc. (see Attachment 1).

A soil suitability sketch map is attached with this report. The usable/unsuitable soil boundary was located in the field using GPS technology. Our data was placed on top of a digital base map provided by the project engineer. Please note the map is not a survey and the size and location of the usable soil areas are approximate. If the amount of usable soil on a particular lot is limited we can perform a layout of the proposed system and repair area to demonstrate ample soil area.

GENERAL WASTEWATER CONSIDERATIONS

The utility of a potential useable soil area for a subsurface system is most accurately determined by an on-ground layout of the proposed system. The total area needed for system and repair areas will depend upon the system type, the layout of that system and the total design flow (factors mentioned above). A typical area needed for a four-bedroom residence is approximately 12,000 to 16,000ft^2 (could be more depending on site features) or 1066 linear feet of conventional line (system and repair) or 1420 linear feet of LPP line (system and repair). These estimates reference Laws and Rules for Sewage Treatment and Disposal Systems for North Carolina and use a LTAR of 0.3gpd/ft^2 for conventional septic systems (.1955), a LTAR of 0.3gpd/ft^2 for modified conventional (.1956) and 0.1gpd/ft^2 for LPP septic systems (.1957a). The required soil area estimates do not include area for a well setback, drive or house envelope. The

health department will determine the design LTAR after their evaluation. S&EC will be glad to assist in any system layout or sizing calculations if requested.

A site plan for any lot must ensure that adequate soil area for system and repair is unaffected by site elements (house placement, driveway, wells, patios, decks, etc.). The area ultimately designated by the health department for the septic system and repair must remain undisturbed (no mechanical clearing, excavation, heavy traffic or other significant site disturbing activities) until authorized by the health department. A lot with adequate usable soil area may be rendered unusable as a result of improper site planning and/or disturbance.

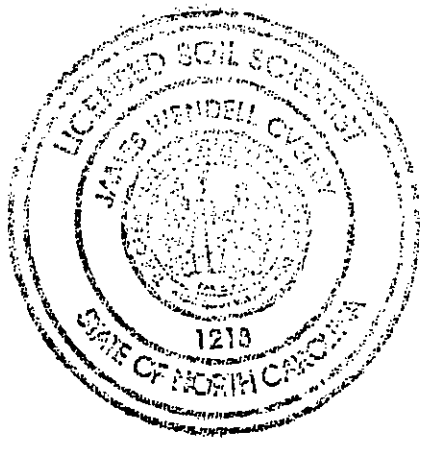
This report discusses the general location of potentially usable soils for on-site subsurface wastewater disposal and does not constitute or imply any approval or permit needed by the client from the local heath department. S&EC, PA is a professional consulting firm that specializes in the delineation of soil areas for wastewater disposal and the layout and design of wastewater treatment systems. As a professional consulting firm, S&EC is hired for its professional opinion in these matters. The rules governing wastewater treatment (interpreted and governed by local and state agencies) are ever evolving, and in many cases, affected by the opinions of individuals employed by these governing agencies. Because of this, S&EC, PA cannot guarantee that areas delineated and/or systems designed will be permitted by the governing agencies. As always, we recommend that anyone making financial commitments on a tract be fully aware of individual permit requirements on that tract prior to final action.

An individual septic system permit will be required for each lot prior to obtaining a building permit. This will involve a detailed evaluation by the local health department to determine system size and layout, well, drive and house location, etc. Only after developing this information can a final determination be made concerning the specifics of system design and site utilization.

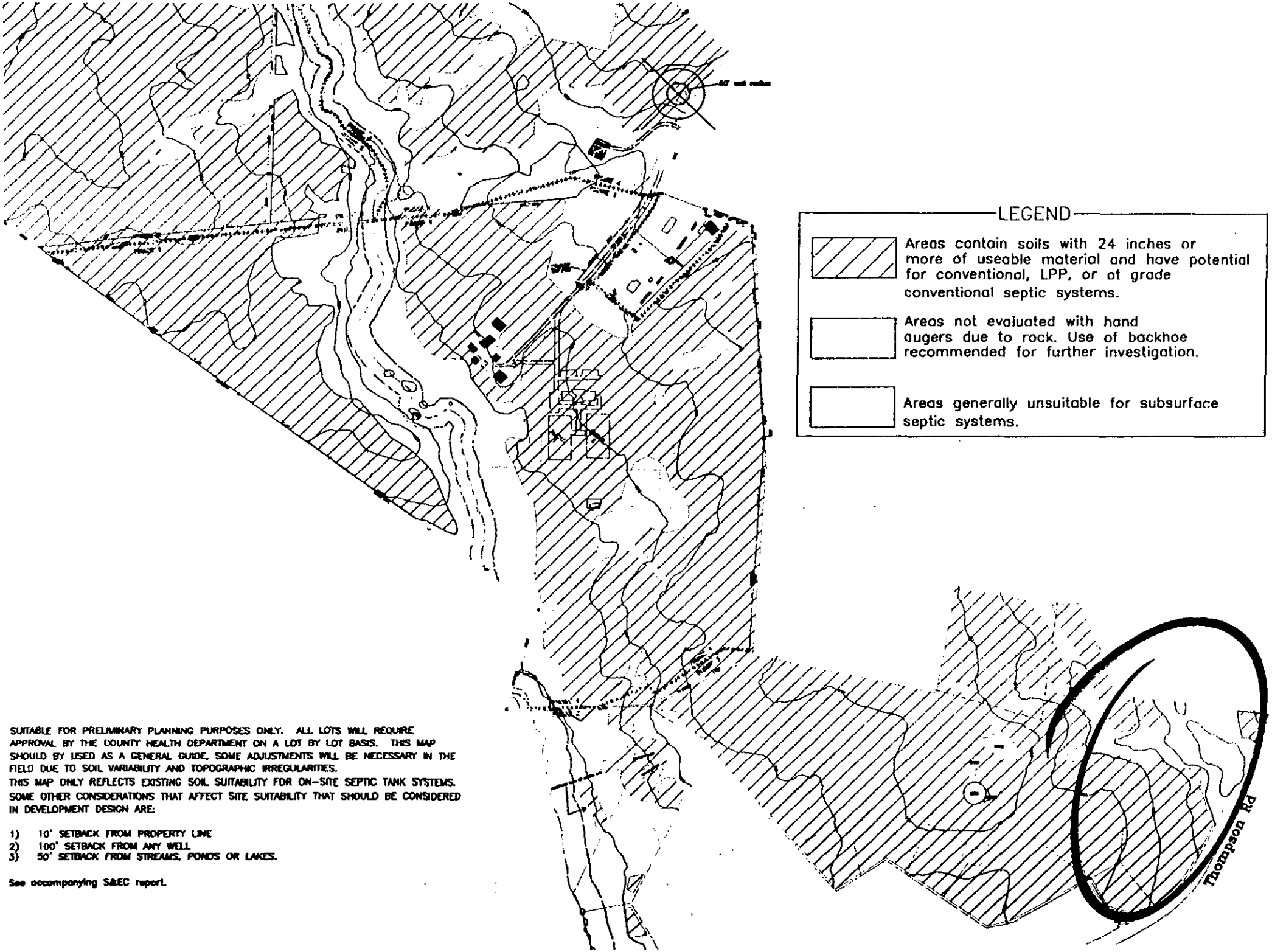
Soil & Environmental Consultants, PA is pleased to be of service in this matter and we look forward to assisting in any site analysis needs you may have in the future. Please feel free to call with any questions or comments.

Sincerely,

Wendell Overby
NC Licensed Soil Scientist



Encl: Soil/Site Map
Attachment 1



SUITABLE FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND TOPOGRAPHIC IRREGULARITIES.
THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS. SOME OTHER CONSIDERATIONS THAT AFFECT SITE SUITABILITY THAT SHOULD BE CONSIDERED IN DEVELOPMENT DESIGN ARE:

1) 10' SETBACK FROM PROPERTY LINE
2) 100' SETBACK FROM ANY WELL
3) 50' SETBACK FROM STREAMS, PONDS OR LAKES.

See accompanying S&EC report.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 6653B Permit #: _____ Tax Parcel #: 195-073-14

Property Owner: Moritz Properties LLC

Job Location Address: 6809 Soli Chevae

City: Mint Hill State: NC Zip Code: _____

Operation Permit Issuance Date: _____ Contractor Name: _____

Permitted Design Flow: _____ GPD

Liquid Capacity of Septic Tank: 1500 gallons 07-B-06

Liquid Capacity of Dosing Tank: 1000 gallons 03-03-07

Effluent Pump Model: Meyers 1/4 hp ME40MC-1/

Drainfield Installation ☐ N/A

Trench Depth: 24-30 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 200 feet

# of Lines: 5 @ 40 feet

Depth of Media: 12 inches (Type) EZ Flow

Depth of Cover: 12-18 inches

Distribution Device: Drop Boxes

Inspection Dates

Tank(s) Inspected: 5-31-07

Excavation Inspected: 5-31-07

Pump & Controls Inspected: _____

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

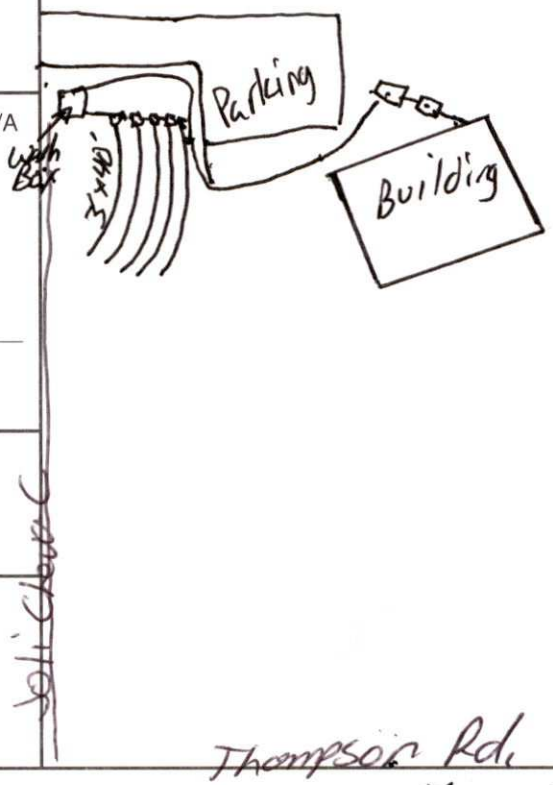
System Installation Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this 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 15A NCAC 18A. 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.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: _____

DENR Authorized Agent: _____ Signature: _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

INSTALLATION APPROVAL for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 6653B Permit #: _____ Tax Parcel #: 195 073-14

Property Owner: Moritz Properties LLC

Job Location Address: 6809 Soli Chevel

City: Mint Hill State: NC Zip Code: _____

Installation Approval Issuance Date: 5-22-07

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge, as specified herein at the described location. This approval is granted based upon the application information submitted to our office. All work shall be completed on or before _____, after which date this approval shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of granting this approval. 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 of hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

***NOTICE: This system shall not be installed while soils are in a wet condition.**

Permitted Design Flow: 200 GPD

Site LTAR: .3 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: 1000 gallons

Drainfield Design ☐ N/A

Trench Depth: 36 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 200 feet

# of Lines: 5 @ 40 feet

Depth of Media: 12 inches (Type) _____

Distribution Device: Drop Boxes

Bed Design *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

Minimum System Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

Install according to plot plan

Comments: System Classification & Type: IIIb

DENR Authorized Agent: Jeremy Michael Signature: Jeremy Michael