DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 11/19/08
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: _____
LOCATION OF SITE: Paradise Peninsula Lot 194 CLT Sec 10 PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ 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 | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0-48" | Auger boring dug with Brady Freeman of Rollans LSS. Soil was .35 rating and this area is Less than 50' from lake, see attached letter from DWQ allowing this TSII pretreatment repair within the 50' setback. | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | | |
| System Type(s) | | |
| Site LTAR | | |

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: Anthony Coker Jr. RS.
OTHER(S) PRESENT: _____

# LEGEND

***use the following standard abbreviations***

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR* | LPP .1957 LTAR* | MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|---|---|---|---|---|
| CC (Concave Slope) | I | S (Sand) | 1.2 - 0.8 | 0.6 - 0.4 | NEXP (Non-expansive) | G (Single Grain) |
| CV (Convex Slope) | | LS (Loamy Sand) | | | SEXP (Slightly Expansive) | M (Massive) |
| D (Drainage Way) | | | | | EXP (Expansive) | CR (Crumb) |
| DS (Debris Slump) | II | SL (Sandy Loam) | 0.8 - 0.6 | 0.4 - 0.3 | | GR (Granular) |
| FP (Flood Plain) | | L (Loam) | | | | SBK (Subangular Blocky) |
| FS (Foot Slope) | | | | | | ABK (Angular Blocky) |
| H (Head Slope) | III | Si (Silt) | 0.6 - 0.3 | 0.3 - 0.15 | | PL (Platy) |
| L (Linear Slope) | | SiCL (Silty Clay Loam) | | | | PR (Prismatic) |
| N (Nose Slope) | | CL (Clay Loam) | | | | |
| R (Ridge) | | SCL (Sandy Clay Loam) | | | MOIST | WET |
| S (Shoulder Slope) | | SiL (Silt Loam) | | | | |
| T (Terrace) | | | | | VFR (Very Friable) | NS (Non-sticky) |
| | IV | SC (Sandy Clay) | 0.4 - 0.1 | 0.2 - 0.05 | FR (Friable) | SS (Slightly Sticky) |
| | | SiC (Silty Clay) | | | FI (Firm) | S (Sticky) |
| | | C (Clay) | | | VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| | | O (Organic) | None | None | EFI (Extremely Firm) | NP (Non-plastic) |
| | | | | | | SP (Slightly Plastic) |
| | | | | | | P (Plastic) |
| | | | | | | VP (Very Plastic) |

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

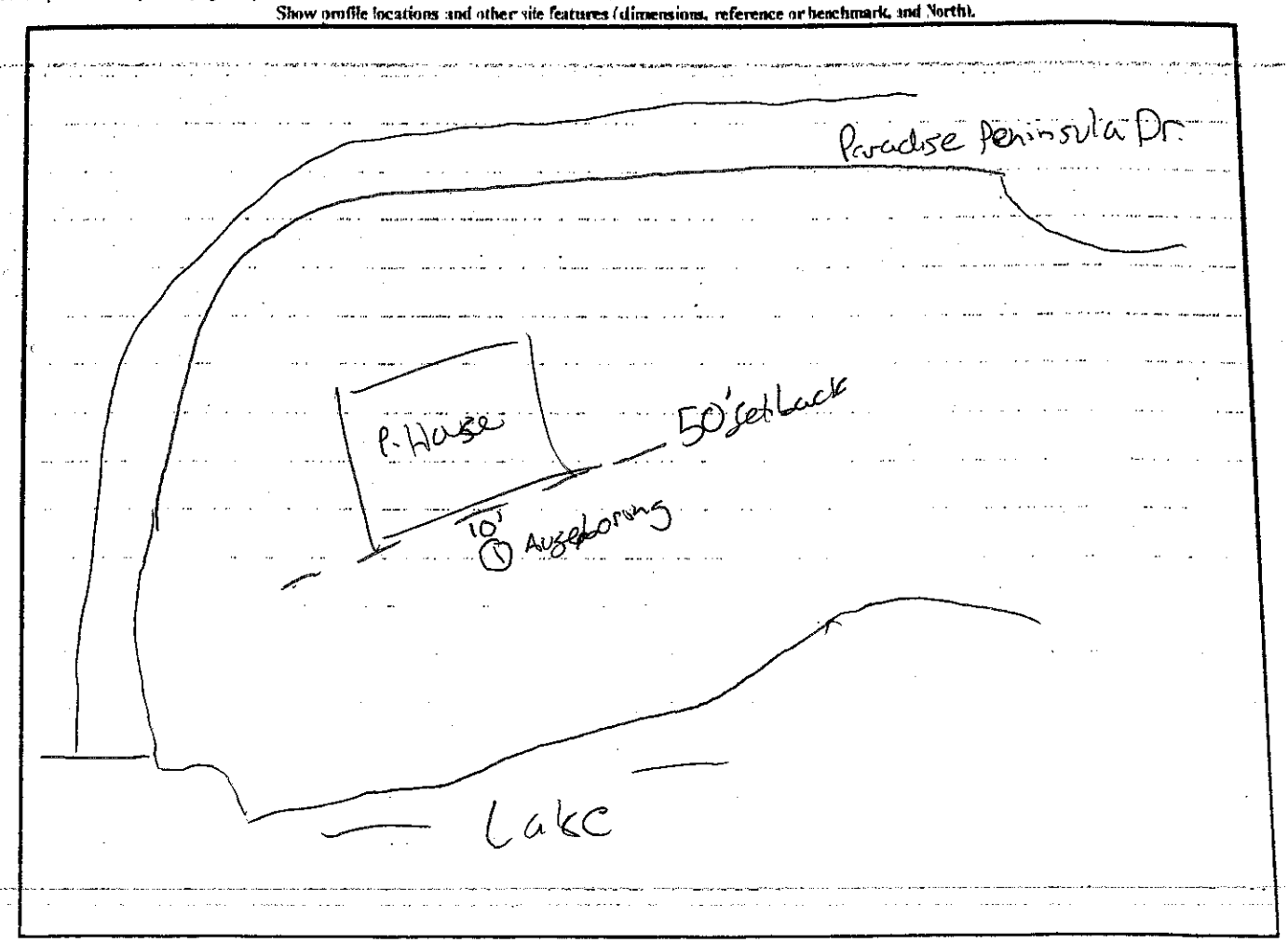
***NOTES***

| | |
|---|---|
| *HORIZON DEPTH* | In inches below natural soil surface |
| *DEPTH OF FILL* | In inches from land surface |
| *RESTRICTIVE HORIZON* | Thickness and depth from land surface |
| *SAPROLITE* | S(suitable) or U(unsuitable) |
| *SOIL WETNESS* | Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation |
| *CLASSIFICATION* | S (Suitable), PS (Provisionally Suitable), or U (Unsuitable) |

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft$^2$

Show profile locations and other site features (dimensions, reference or benchmark, and North).




DENR (######)

Review (######)

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director
Division of Water Quality

December 1, 2008

DWQ Project # 2008-1712
County: Iredell

Rollans Soil & Environmental Services, P.A.
Attn: Mr. Brady Freeman
470 North Broad Street, Suite D
Mooresville, NC 28115

Subject Property: **239 Paradise Peninsula Road, Davidson, NC**
Iredell County

Dear Mr. Freeman:

You have our authorization of exemption from the Catawba River Riparian Buffer Rules [15A NCAC 2H.0243] for the construction of the septic system repair area located outside of Zone 1 of the protected Catawba Riparian Buffer at 239 Paradise Peninsula Road in Davidson, NC. Since this property was recorded prior to June 30, 2001, there is only a 30-foot protected riparian buffer on the subject property. It appears the septic repair area will not occur in the 30-foot buffer and is therefore exempt from the Catawba Buffer Rules [15A NCAC 2H.0243] and does not require written authorization from the Division of Water Quality (DWQ). However, please note that on-site waste systems, septic tanks and drainfields are not allowed in Zone 1 of the protected 30-foot buffer.

This authorization is only valid for the purpose and design that you described in your letter with supporting information received by DWQ on November 17, 2008. If you change your project, you must notify us and you may be required to send us an application.

Requests for appeals of this decision shall be made to the Office of Administrative Hearings. If you do not accept any of the conditions of this approval, you may ask for and adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition which conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. This authorization and its conditions are final and binding unless you ask for a hearing.

This letter completes the review of the Division of Water Quality under the Catawba River Riparian Buffer Protection Rules [15A NCAC 2B .0243]. Please call Ms. Amy Chapman at (919) 715-6823 if you have any questions or require copies of our rules or procedural materials.

Sincerely,

Cyndi Karoly, Supervisor
401 Oversight and Express Permits Unit

CBK/ijm/*asc*

cc: Alan Johnson, DWQ Mooresville Regional Office
File Copy
Matt Matthews, DWQ Wetlands and Stormwater Branch

File Name: 081712_239ParadisePeninsulaRd(Iredell)CBR_Exempt



401 Oversight/Express Review Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1650
2321 Crabtree Boulevard, Suite 250, Raleigh, North Carolina 27604
Phone: 919-733-1786 / FAX 919-733-6893 / Internet: http://h2o.enr.state.nc.us/ncwetlands

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