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

Sheet ___ of ___
PROPERTY ID #: 094578
COUNTY: 4639-64-1721

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Applicant
OWNER: SYNDRA-4 SOUTH LLC APPLICATION DATE 8-3-04
ADDRESS: PO BOX 545 MATTHEWS NC 28103 DATE EVALUATED: 8-23-04
PROPOSED FACILITY: WAREHOUSE PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: 1.10 AC
LOCATION OF SITE: LAWRENCE ESTATES - LOT 2 PROPERTY RECORDED: YES
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other COMMUNITY
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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	AVG-2	0-8"	sdy wk, gr	fr ns mp		72"			PS .3
		8-30"	cl mod sbk	fr ss sp smp					
		30-48"	cl mod sbk	fi ss sp smp					
2	OLD PITS 2 & 3	0-6"	scl wk gr	fr ns mp mes		43"			PS .3 PS .3
		6-23"	sc gr wk	fr ss sp smp					
		23-43	cl mod sbk	fr ss sp smp					
		43-53"	sl sap						
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	CONV 25%/20%	CONV 25%/20%
Site LTAR	.3	.3

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK
OTHER(S) PRESENT: ___

COMMENTS: ___

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	SCL (Sandy Clay Loam)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiL (Silt Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SiCL (Silty Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		Si (Silt)				
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		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.**

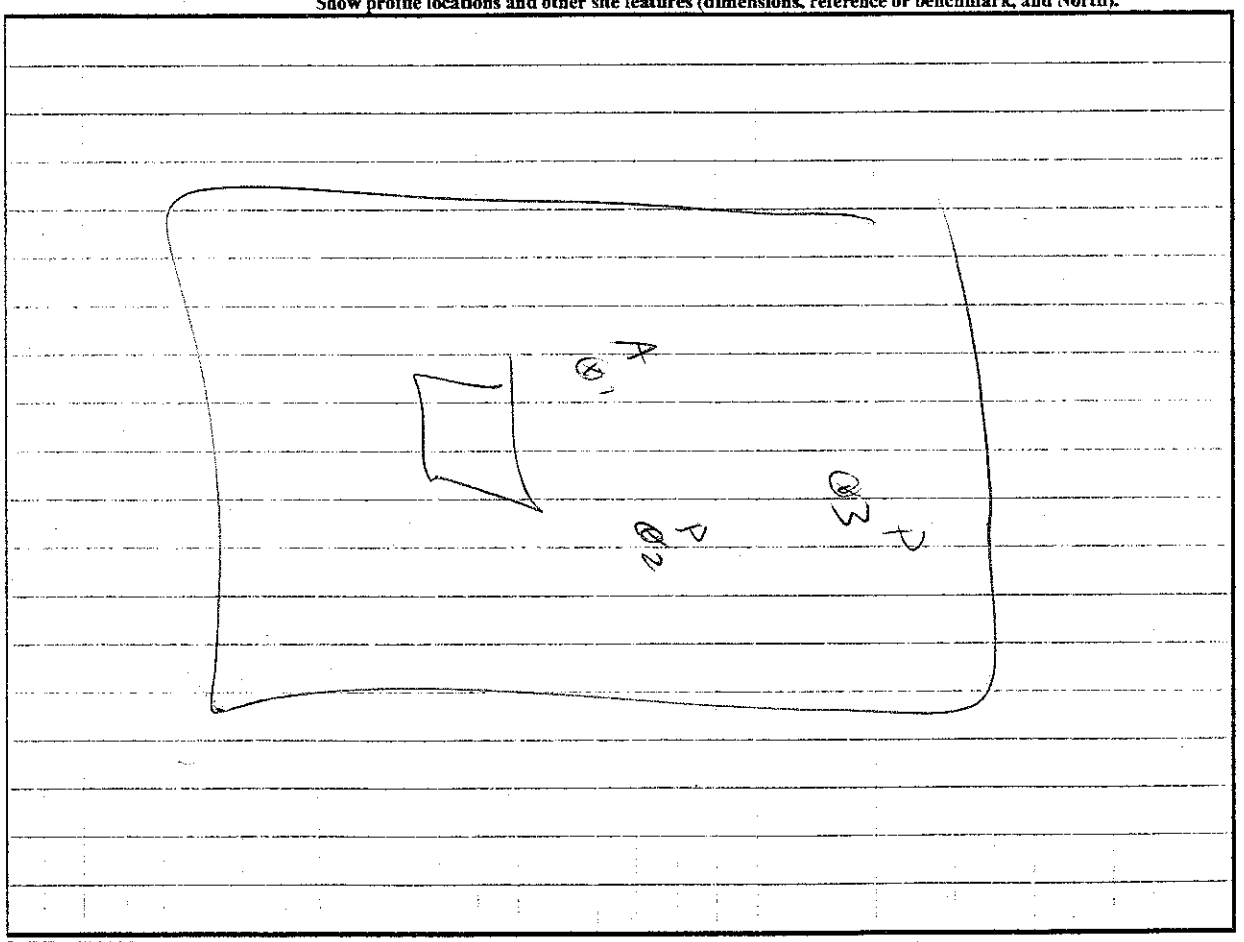
NOTES

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 (#####)