Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: _____ WASPS App #: _____

Primary ES assigned to project: Jeremy Michelone

Secondary ES assigned to project: _____

Project Type: New System ☐ Alteration ☐ Repair ☒ Modified Plot Plan ☐

I. File Review:

Rule or Law					
	Permit Application				
.1937(d)	Is the Application complete	Yes ☒	No ☐	N/A ☐	
.1937(d)	Is there a Site plan/Plat with application	Yes ☒	No ☐	N/A ☐	POLARIS MAP
.1937(d)	Is the Facility shown?	Yes ☒	No ☐	N/A ☐	
.1937(d)	Are appurtenances shown	Yes ☐	No ☒	N/A ☐	
	Site Evaluation Information				
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☒	No ☐	N/A ☐	
.1940 (a-g)	Slope % Recorded?	Yes ☒	No ☐	N/A ☐	
.1939 (a)(2)	Texture Class Recorded?	Yes ☒	No ☐	N/A ☐	
.1939 (a)(2)	Structure type Recorded?	Yes ☒	No ☐	N/A ☐	
.1939 (a)(2)	Consistence Recorded?	Yes ☒	No ☐	N/A ☐	
.1939 (a)(2)	Mineralogy Recorded?	Yes ☒	No ☐	N/A ☐	
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☒	No ☐	N/A ☐	
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☒	No ☐	N/A ☐	
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☒	
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☒	No ☐	N/A ☐	
.1937(m)	Are the Profile Locations Shown?				
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☒	No ☐	N/A ☐	
& .1945(b)	Number of auger borings made: 3 pits				
	Were sufficient auger borings made?	Yes ☒	No ☐	N/A ☐	
.1939(d), .1955, .1956, .1957	LTAR 0.2	Yes ☒	No ☐	N/A ☐	
	Improvement Permit/Construction Authorization				
.1937(g)	Proposed System Type stated-Initial	Yes ☒	No ☐	N/A ☐	
130A-336(a) .1945(b)	Proposed System Type stated-Repair	Yes ☒	No ☐	N/A ☐	
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☒	No ☐	N/A ☐	
.1937(g) .1945(b)	System components shown – Initial	Yes ☐	No ☐	N/A ☒	
.1945(b)	Repair area shown	Yes ☒	No ☐	N/A ☐	
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☒	No ☐	N/A ☐	
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☒	No ☐	N/A ☐	
.1937 (f)(g)	Is the System located in the approved area?	Yes ☒	No ☐	N/A ☐	
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☒	No ☐	N/A ☐	

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☒	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☒	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☒	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☒	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☒
130A-336(a)(1)	Property line lengths shown?	Yes ☐	No ☒ mobile home park	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☑	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☑	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: 11-8-12

OP issued date: 11-29-12

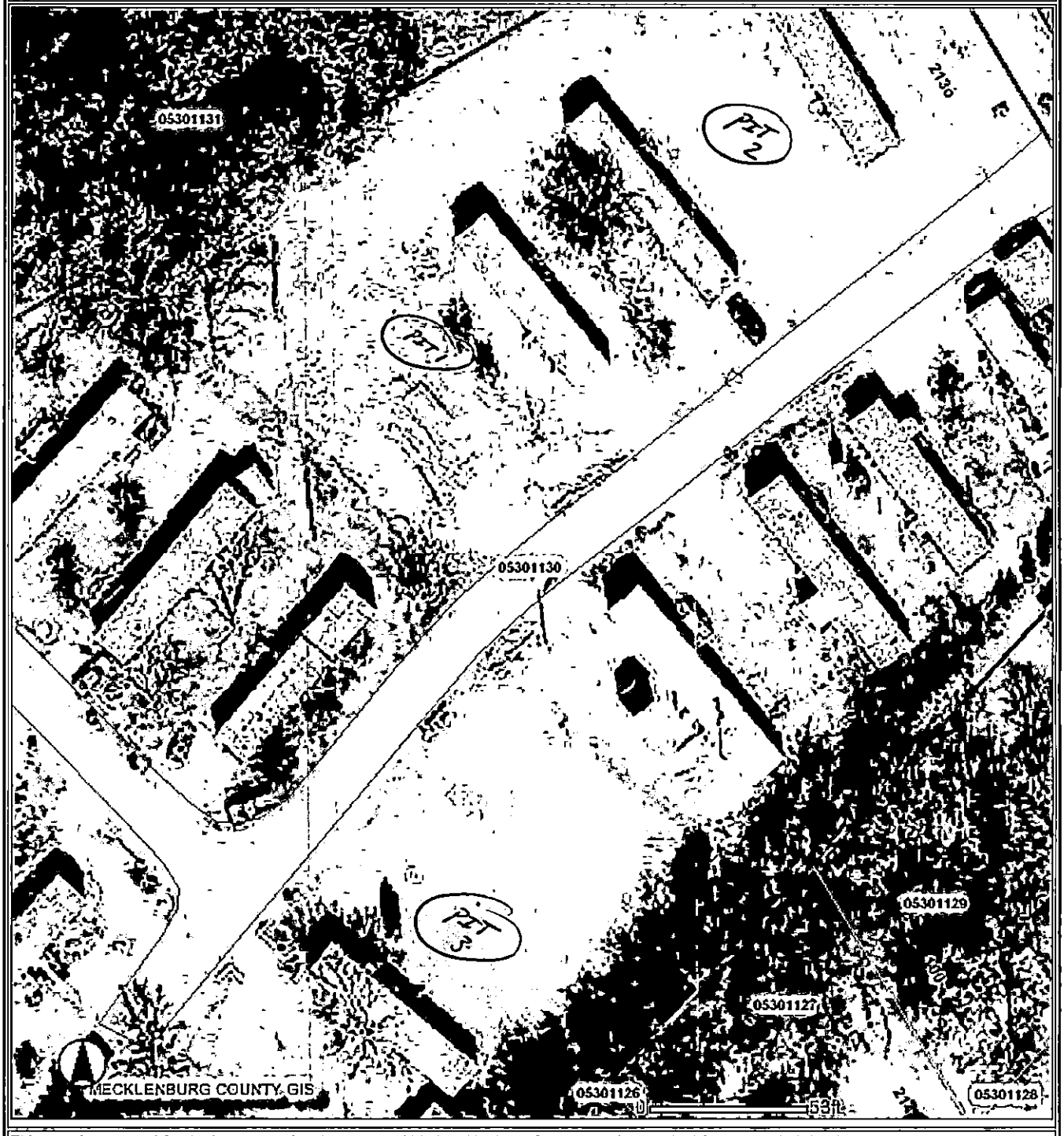
Review performed by: SAM Date performed: 12-6-2012

Mecklenburg County, North Carolina

POLARIS

Property Ownership Land Records Information System

Date Printed: Fri Nov 9 07:59:04 EST 2012



This map is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

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 #: 0023M Permit #: 5907 Tax Parcel #: 053-011-30

Property Owner: ASHLEY D. TISON

Job Location Address: 708 RHYNE ROAD (RHYNE ROAD MHP)

City: CHARLOTTE State: NC Zip Code: 28227

Installation Approval Issuance Date: 11/8/12

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 ASAP, 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: 360 GPD

Site LTAR: 0.2 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: Existing gallons

Liquid Capacity of Dosing Tank: 1500 gallons

Drainfield Design ☒ N/A

Trench Depth: _____ inches

Trench Width: _____ feet

Line Spacing: _____ feet (O.C.)

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Distribution Device: _____

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

Bed Depth: 48 inches

Bed Width: 15 feet

Total line length: 300 feet

# of Lines: 5 @ 60 feet

Depth of Media: 24 inches (Type) 7CHP

Distribution Device: D-BOX

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

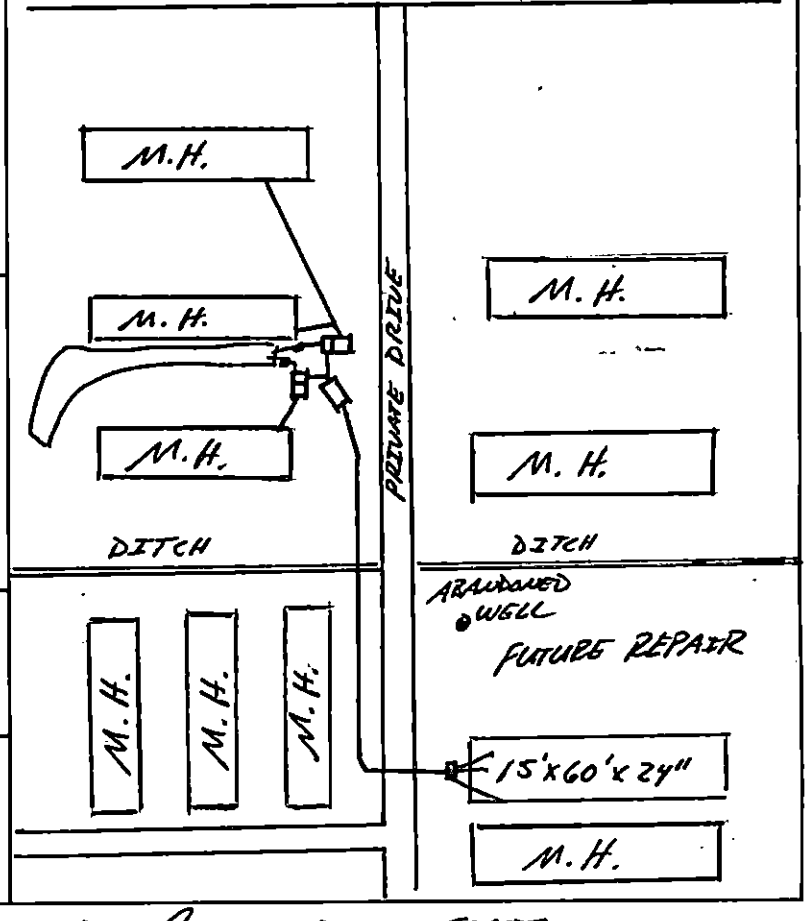
Minimum System Setbacks

Distance from Building Foundation: >5' feet

Distance from Property Line: >10' feet

Distance from Water Supply Source: >100' feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout) RHYNE ROAD



Comments: System Classification & Type: III b Pump To Conventional System

→ Sleeve under all driveways, road, & ditch crossing

→ Fix all water leaks

DENR Authorized Agent: Tommy Mickelson, REHS Signature: Tommy Mickelson, REHS

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700 N. Tryon St., Suite 211 Charlotte, NC 28202
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NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 0023M Permit #: 5907 Tax Parcel #: 053-011-30

Property Owner: ASHLEY D. TYSON

Job Location Address: 708 RHYNE ROAD

City: CHARLOTTE State: NC Zip Code: 28227

Operation Permit Issuance Date: 11/29/12 Contractor Name: STANLEY

Permitted Design Flow: 360 GPD

Liquid Capacity of Septic Tank: Existing gallons

Liquid Capacity of Dosing Tank: 1500 gallons

Effluent Pump Model: 1/3 HORSE

Drainfield Installation ☒ N/A

Trench Depth: _____ inches

Trench Width: _____ feet

Line Spacing: _____ feet (O.C.)

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Inspection Dates

Tank(s) Inspected: 11/29/12

Excavation Inspected: 11/29/12

Pump & Controls Inspected: 11/29/12

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

Bed Depth: 48" inches

Bed Width: 15 feet

Total line length: 300 feet

# of Lines: 5 @ 60 feet

Depth of Media: 24 inches (Type) TCHP

Depth of Cover: 24 inches

Distribution Device: D-BOX

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: >5' feet

Distance from Property Line: >10' feet

Distance from Water Supply Source: >100' feet

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

SYSTEM INSTALLED

EXACTLY AS

PERMITTED

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: III b Pump to TCHP BED, PRESSURE, NA, NA

DENR Authorized Agent: Jeremy Michelle REHS Signature: Jeremy Mc. REHS

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NC DENR
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On-Site Wastewater Section

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

File #: 0023M Permit #: 5907 Tax Parcel #: 053-011-30

Property Owner: ASHLEY D. TYSON

Job Location Address: 708 RHYNE ROAD

City: CHARLOTTE State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIB

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☒ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Jeremy Mitchell REHS Date: 12/29/12

Signature: Jeremy M. Mitchell REHS

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 053-011-30
COUNTY: MECK

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ASHLEY TIBAN
APPLICATION DATE 11/8/12
ADDRESS: 2242 CRESCENT AVE. CHARLOTTE, NC 28207
DATE EVALUATED: 11/8/12
PROPOSED FACILITY: MOBILE HOME PROPOSED DESIGN FLOW (.1949): 720
PROPERTY SIZE:
LOCATION OF SITE: 708 RHYNE ROAD
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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L.S. 2%	0-4	FILL	FILL	CHROMA 2 @ 24"	72"	NA	NA	U.S.
		4-40	ABK/C	VF/VS/VP/EXP					
		40-72	ABK/C	VF/VS/VP/EXP					
2	L.S. 6%	0-12	SBK/C	FI/S/P/SEXP	CHROMA 2 @ 41"	42"	U.S.	NA	U.S.
		12-42	SBK/C	VFI/VS/VP/EXP					
		42-70	WSBK/SCL	FI/S/P/SEXP					
3	L.S. 5%	0-13	SBK/C	FI/S/P/SEXP	>72" TO SOIL WETNESS	36"	P.S.	NA	P.S. 0.2 G/D/F
		13-36	ABK/C	VFI/VS/VP/EXP					
		36-72	MASS/SL	FR/SS/SP/SEXP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P.S.	P.S.
System Type(s)	III b	III b
Site LTAR	0.2	0.2

OTHER FACTORS (.1946): P.S.
SITE CLASSIFICATION (.1948):
EVALUATED BY: Jeremy Michalec, REHS
OTHER(S) PRESENT: ASHLEY TIBAN, SCOTT W/ STANLEY SEPTIC

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	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.

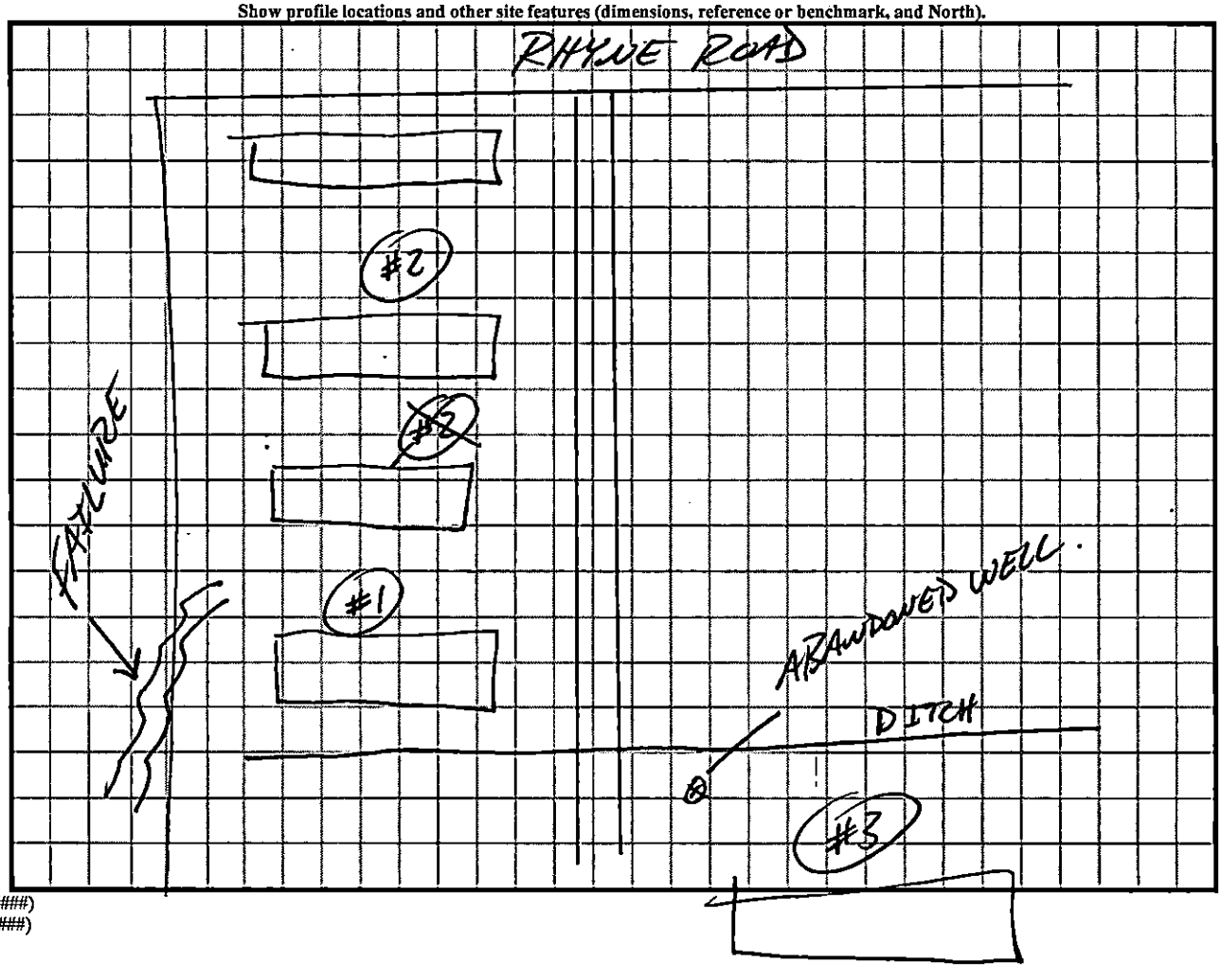
NOTES

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 (#####)