DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4870420687
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: North Iredell American Legion
ADDRESS: PO Box 62 Harmony NC
PROPOSED FACILITY: American Legion PROPOSED DESIGN FLOW (.1949): 1200 gpd
LOCATION OF SITE: 3085 Harmony Hwy
WATER SUPPLY: • Private • Public • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • Pit • Cut TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

APPLICATION DATE 1-20-15
DATE EVALUATED: 2-11-15
PROPERTY SIZE: 2.0 acres
PROPERTY RECORDED: Yes

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	4% NS	0-10	SCL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.25
		10-33	C MVCC ADK	Fr Mod SE					
		33-48	BC SAP INFL WABK	Fr Mod SE					
2	3% NS	0-10	SCL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.25
		10-24	C MVCC SBK	Fr Mod SE					
		24-48	BC SAP INFL WABK	Fr Mod SE					
3	5% NS	0-7	SCL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.25
		7-28	C ABK	Fr Mod SE					
		28-48	BC SAP INFL WABK	Fr Mod SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
ailable Space (.1945)	PS	PS
tem Type(s)	III	III
LTAR	0.25	0.25

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Josh Henderson
OTHER(S) PRESENT: N/A

MENTS:

LEGEND

use the following standard abbreviations

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

MOIST	WET
VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic) P (Plastic) VP (Very Plastic)

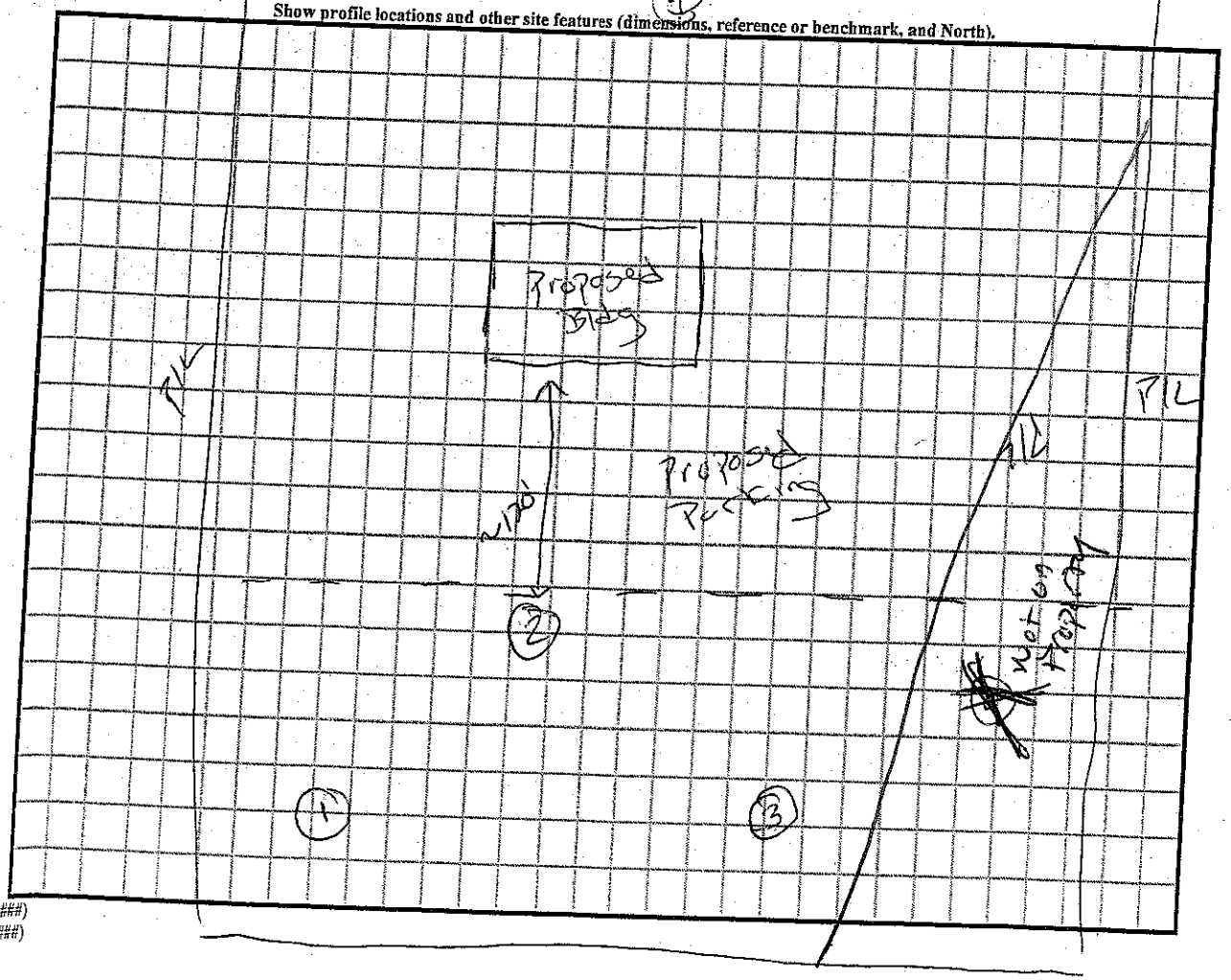
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

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/ft²

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



DENR (######)
Review (######)

PL

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4870420680
DATE OF EVALUATION: 6-8-15
COUNTY: Iredell

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
4	5% L	0-8	SCL SBK	Fr mod SE	748"	42"	42"	42"	PS 0.275
		8-23	C SBK	Fi mod SE					
		23-42	BC relic mod WABK	S					
		42-48	SAP						
			many SAP inclusions from 23-42"						
5	3% L	0-8	SCL SBK	Fr mod SE	748"	43"	43"	43"	PS 0.25
		8-19	C SBK	Fi mod SE					
		19-43	BC many com SAP WABK	Fi Inc Fr Mod SE					
		43-48	SAP						

COMMENTS: Initial IB @ 30" high side

Justin Henderson

From: Angoli, Trish <trish.angoli@dhhs.nc.gov>
Sent: Wednesday, June 3, 2015 9:59 AM
To: Justin Henderson
Subject: RE: North Iredell American Legion Posy 113 Flow Reduction Request

Justin,

I reviewed Gerald's proposal and I am okay with the reduction to 1.07 gpd/person.

Let me know if you need anything else from me or if you have any questions.

Thanks
Trish

Patricia M. Angoli, PE
NC Department of Health and Human Services
Environmental Engineer, On-Site Water Protection Branch, Division of Public Health
5605 Six Forks Rd
1642 Mail Service Center
Raleigh, NC 27699-1642
919-707-5878 (Office)
919-854-3973 (Fax)
trish.angoli@dhhs.nc.gov
http://publichealth.nc.gov

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From: Justin Henderson [mailto:jhenderson@co.iredell.nc.us]
Sent: Tuesday, May 26, 2015 2:39 PM
To: Angoli, Trish
Subject: FW: North Iredell American Legion Posy 113 Flow Reduction Request

Trish,
Here is the proposal from Gerald Grant for a flow reduction for the North Iredell American Legion. Let me know if I can answer anymore questions.
Thanks,
Justin Henderson
EH Program Specialist
Iredell County

From: Gerald Grant [mailto:gerald@gvgrant.com]
Sent: Thursday, May 21, 2015 8:55 AM
To: Justin Henderson
Subject: North Iredell American Legion Posy 113

Justin,

Please find attached my proposed design for the wastewater disposal system for the subject project. Please contact me with any questions, comments, and suggestions. I appreciate your help and I look forward to your response.

Thanks, Gerald

Gerald V. Grant, PE, PLS

GERALD V. GRANT & ASSOCIATES
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Hwy 21
80'
40'
83'
17'
8'
79'
49
57
69
122'
20'
Entrance
Bldg
72'
72'
72'
72'
20'
12'
4'
32'
15'
39'
46'