205850



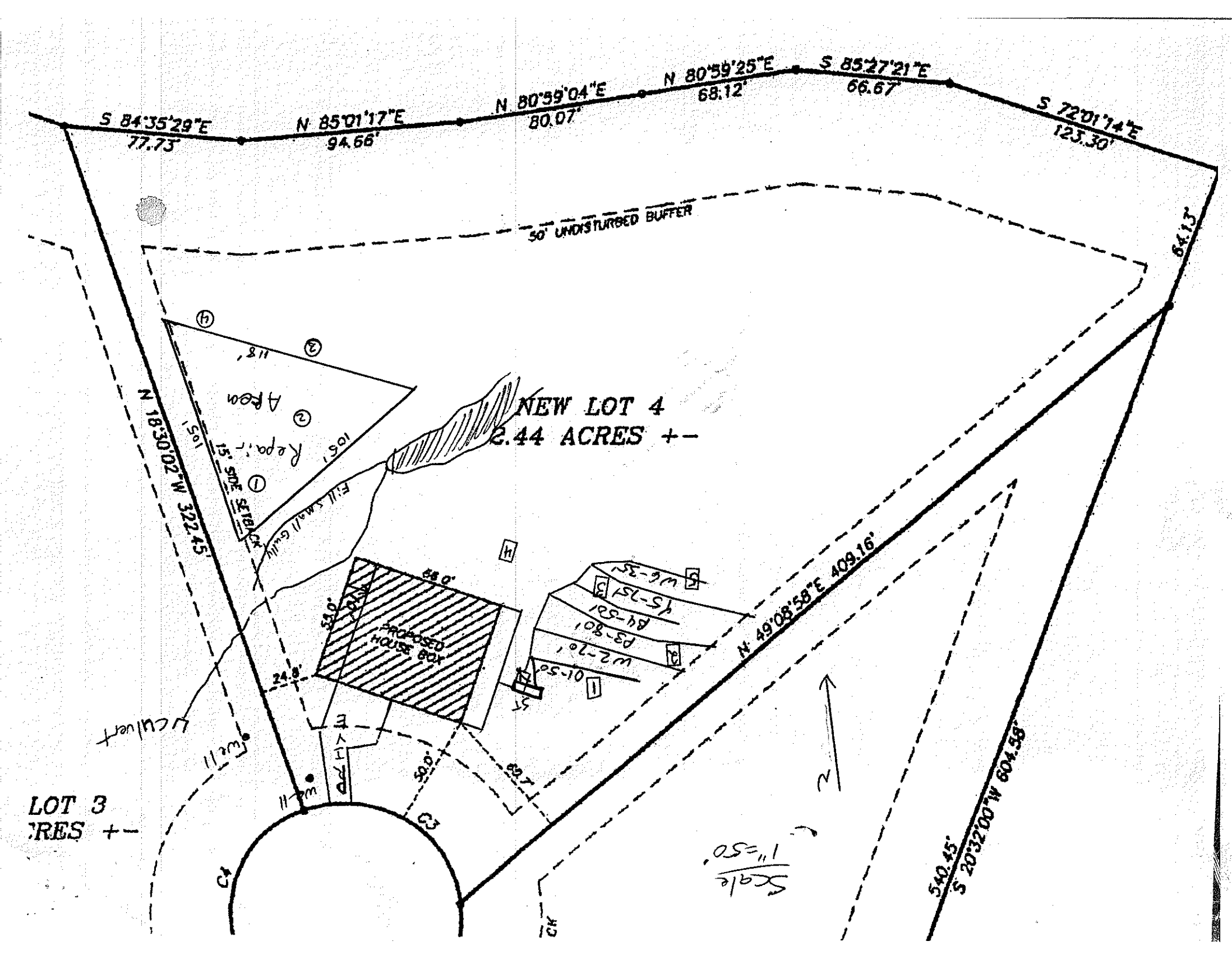
MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 169 Monarch Rd.
House Footprint: 55' x 55'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.25 GPD/FT2 (initial), 0.1 GPD/FT2 (repair)
Proposed System Type: 25% Reduction
Proposed Repair System Type: Drip irrigation
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 18-24" 18"- 24" LOWSIDE

Line	Design Length	Actual Length
Orange 1	50'	50'
White 2	70'	70'
Pink 3	80'	80'
Blue 4	50'	53'
Yellow 5	75'	78'
White 6	35'	37'

Initial System: 360' **Repair System:** 5000+ FT2

Comments:
The pits on the lot were dug prior to our involvement and are only approximately 36" deep. We used an auger boring to evaluate to 48". The house box will move to the right 10' as noted on the site plan. The small gully near the repair area should be filled and the water from the culvert should be diverted away from the repair area.


S 84°35'29"E
77.73'
N 85°01'17"E
94.66'
N 80°59'04"E
80.07'
N 80°59'25"E
68.12'
S 85°27'21"E
66.67'
S 72°01'14"E
123.30'
64.13'
50' UNDISTURBED BUFFER
NEW LOT 4
2.44 ACRES +-
N 18°30'02"W 322.45'
N 49°08'58"E 409.16'
S 20°32'00"W 604.58'
540.45'
15' SIDE SETBACK
PROPOSED HOUSE BOX
68.0'
53.0'
24.8'
90.0'
69.7'
C1
C2
C3
C4
LOT 3
ACRES +-
Culvert
Scale 1"=50'

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

PROPERTY ID #: 169 Monarch Rd
COUNTY: _Iredell_____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: _Eric Kircher_____ APPLICATION DATE_____
ADDRESS: __167 Monarch Rd., Mooresville, NC_____ DATE EVALUATED: _____
PROPOSED FACILITY: _3 bdrm_____ PROPOSED DESIGN FLOW (.1949): _360 GPD____ PROPERTY SIZE: _2.44 AC_____
LOCATION OF SITE: _169 Monarch Rd_____ 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
PIT 1	LS 10%	0-6	Br CL WSBK	FR SS SP	Mn @ 28"	48"	N/A	N/A	PS 0.25
		6-20	R C SBK	FR SS SP					
		20-48	R CL WSBK	FR SS SP					
PIT 2	LS 10%	0-6	Br CL WSBK	FR SS SP	N/A	52"	N/A	N/A	PS 0.3
		6-24	R C SBK	FR SS SP					
		24-52	R CL WSBK	FR SS SP					
PIT 3	LS 12% 30% ILHD	0-6	Br CL WSBK	FR SS SP	Litho/Drainage Chroma 2 at 44"	48" 44"	N/A	N/A	PS 0.25
		6-20	RBr C SCK	FR SS SP					
		20-48	YR CL WSBK	FR SS SP					
4	NOT IN SYSTEM AREA				ILHD 36				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1080 FT2	5000 FT2
System Type(s)	25% Reduction	DRIP
Site LTAR	0.25	0.1

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): ___PS_____
EVALUATED BY: ____M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: _____

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 #: 169 Monarch Rd
DATE OF EVALUATION: _____
COUNTY: IREDELL

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
P 5	LS 12%	0-16	RBr CL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		16-33	R C SBK	FR SS SP					
		33-48	R CL WSBK	FR SS SP					
AB 1	LS 7%	0-10	RBr CL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		10-32	R C SBK	FR SS SP					
		32-48	R CL WSBK	FR SS SP					
AB 2	LS 35%	0-4	Br CL WSBK	FR SS SP	CHR 2 @ 36"	36"	N/A	N/A	PS 0.3-0.25
		4-24	YR C SBK	FR SS SP					
		24-36	RY CL WSBK	FR SS SP					
AB 3	FS 4%	0-4	Br SCL WSBK	FR SS SP	N/A	30"	N/A	N/A	PS 0.3
		4-14	R C SBK	FR SS SP					
		14-30	R SCL WSBK	FR SS SP					
		30	HARD SAP						
AB 4	FS 4%	0-39	R Alluvial	FR-VFR SS SP	N/A	39"	N/A	N/A	PS 0.3
			Deposition CL-LS						
		39	HARD SAP						

COMMENTS: _____