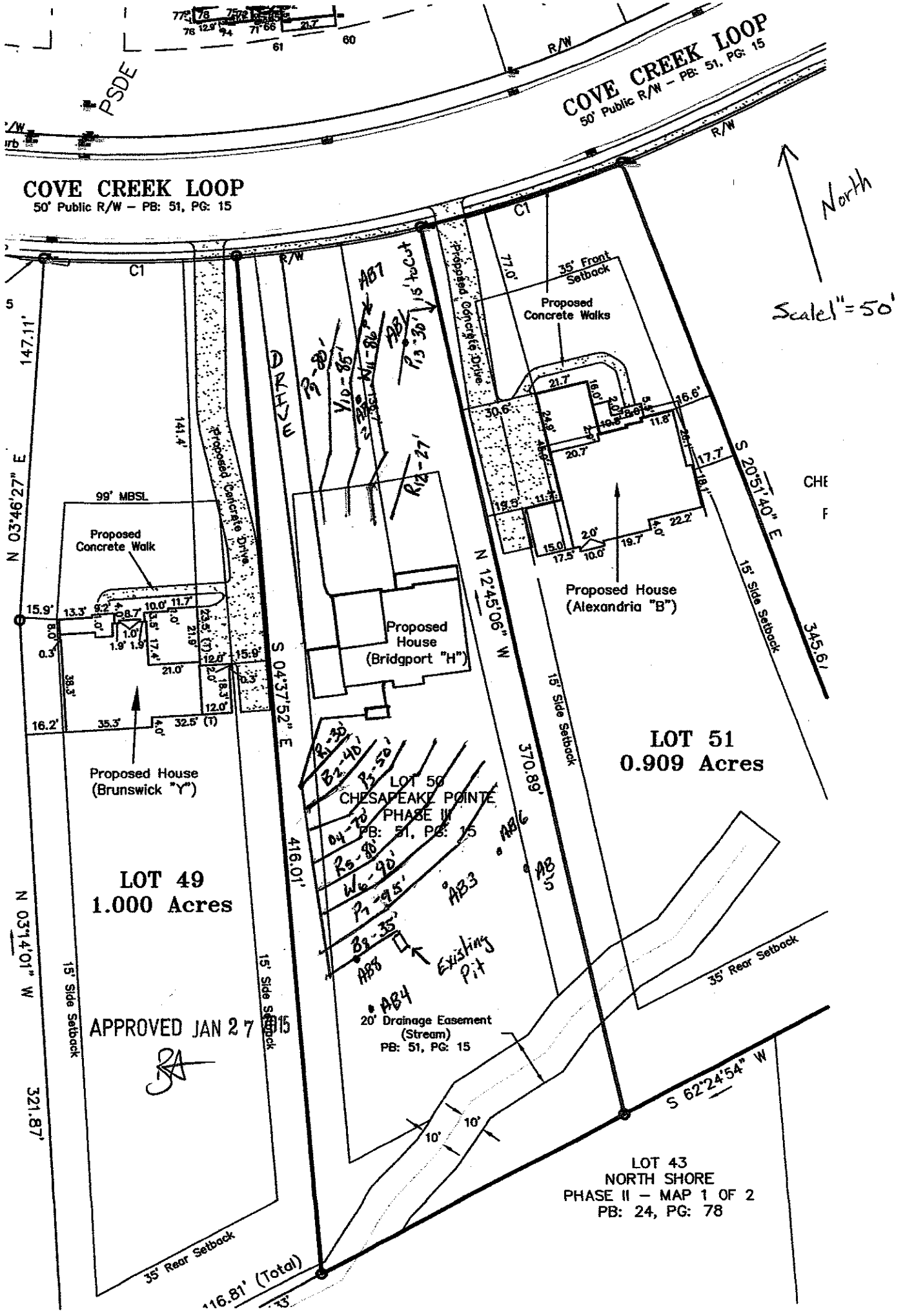

COVE CREEK LOOP
50' Public R/W – PB: 51, PG: 15
COVE CREEK LOOP
50' Public R/W – PB: 51, PG: 15
R/W
PSDE
C1
North
Scale1"=50'
147.11'
N 03°46'27" E
99' MBSL
Proposed Concrete Walk
Proposed Concrete Drive
141.4'
DRIVE
S 04°37'52" E
Proposed Concrete Drive
77.0'
35' Front Setback
Proposed Concrete Walks
30.6'
16.6'
S 20°51'40" E
345.61'
15' Side Setback
N 12°45'06" W
370.89'
Proposed House (Alexandria "B")
Proposed House (Bridgport "H")
Proposed House (Brunswick "Y")
LOT 49
1.000 Acres
LOT 50
CHESAPEAKE POINTE
PHASE III
PB: 51, PG: 15
LOT 51
0.909 Acres
416.01'
N 03°14'01" W
321.87'
15' Side Setback
APPROVED JAN 27 15
20' Drainage Easement
(Stream)
PB: 51, PG: 15
Existing Pit
35' Rear Setback
S 62°24'54" W
116.81' (Total)
10'
10'
LOT 43
NORTH SHORE
PHASE II – MAP 1 OF 2
PB: 24, PG: 78



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

Reference: Data Sheet for Chesapeake Point Lot 50
House Footprint: 50' x 65'
Building Setbacks: 99' front/35'rear/15' side
Water Source: Community Water
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.25 GPD/FT2 (ICHD)
Proposed Repair Area LTAR: .3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 18"

APPROVED JAN 2 7 2015

Line	Design Length	Actual Length
Red 1	**30'**	**30'**
Black 2	**40'**	**40'**
Pink 3	**50'**	**57'**
Orange 4	**70'**	**72'**
Red 5	**80'**	**81'**
White 6	**90'**	**92'**
Pink 7	**95'**	**97'**
Black 8	**35'**	**35'**
Pink 9		80'
Yellow 10		85'
White 11		86'
Red 12		27'
Pink 13		30'

Initial System: 490' **Repair System:** 308'

Comments: The purpose of this evaluation was to change the system type and to move the house site further back on the lot. The loading rate for the initial system has been previously confirmed by the Iredell County Health Department. Please note the house location was located from the foundation under construction.

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

PROPERTY ID #: Lot 50; Chesapeake Pointe
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED JAN 27 2015

OWNER: CP II LLC
APPLICATION DATE
ADDRESS: 3125 Presidential Parkway; Suite 200; Atlanta, GA 30340
DATE EVALUATED: 11/05/2014
PROPOSED FACILITY: 4-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 480 GPD
PROPERTY SIZE: 0.93 Acres
LOCATION OF SITE: Lot 50; Chesapeake Pointe Subdivision; Cove Creek Loop
PROPERTY RECORDED: 4/30/2007
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
AB 1	L 1-2%	0"-9"	Br SL GR	NS NP VFR NEXP		48"	Few to common saporlite inclusions.	None	.3
		9"-36"	R C SBK	SS SP FR NEXP					
		36"-48"	R CL WSBK	SS SP FR NEXP					
AB 2	L 1-2%	0"-9"	Br SL GR	NS NP VFR NEXP		48"	Few to common saporlite inclusions.	None	.3
		9"-30"	R C SBK	SS SP FR NEXP					
		30"-48"	R CL WSBK	SS SP FR NEXP					
AB 3	L 8-9%	0"-19"	RBr CL WSBK	SS SP FR NEXP		48"	Few to common saporlite inclusions. Litho colors included.	None	.3
		19"-37"	R C SBK	SS SP FR NEXP					
		37"-48"	R CL WSBK	SS SP FR NEXP					
AB 4	L 8-9%	0"-12"	Br L GR	NS NP VFR NEXP	Chorma 2 @ 30"	30"	Few to common saporlite inclusions.	None	.25
		12"-24"	RBr CL WSBK	SS SP FR NEXP					
		24"-30"	YBr CL WSBK	SS SP FR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	924 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	.25	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

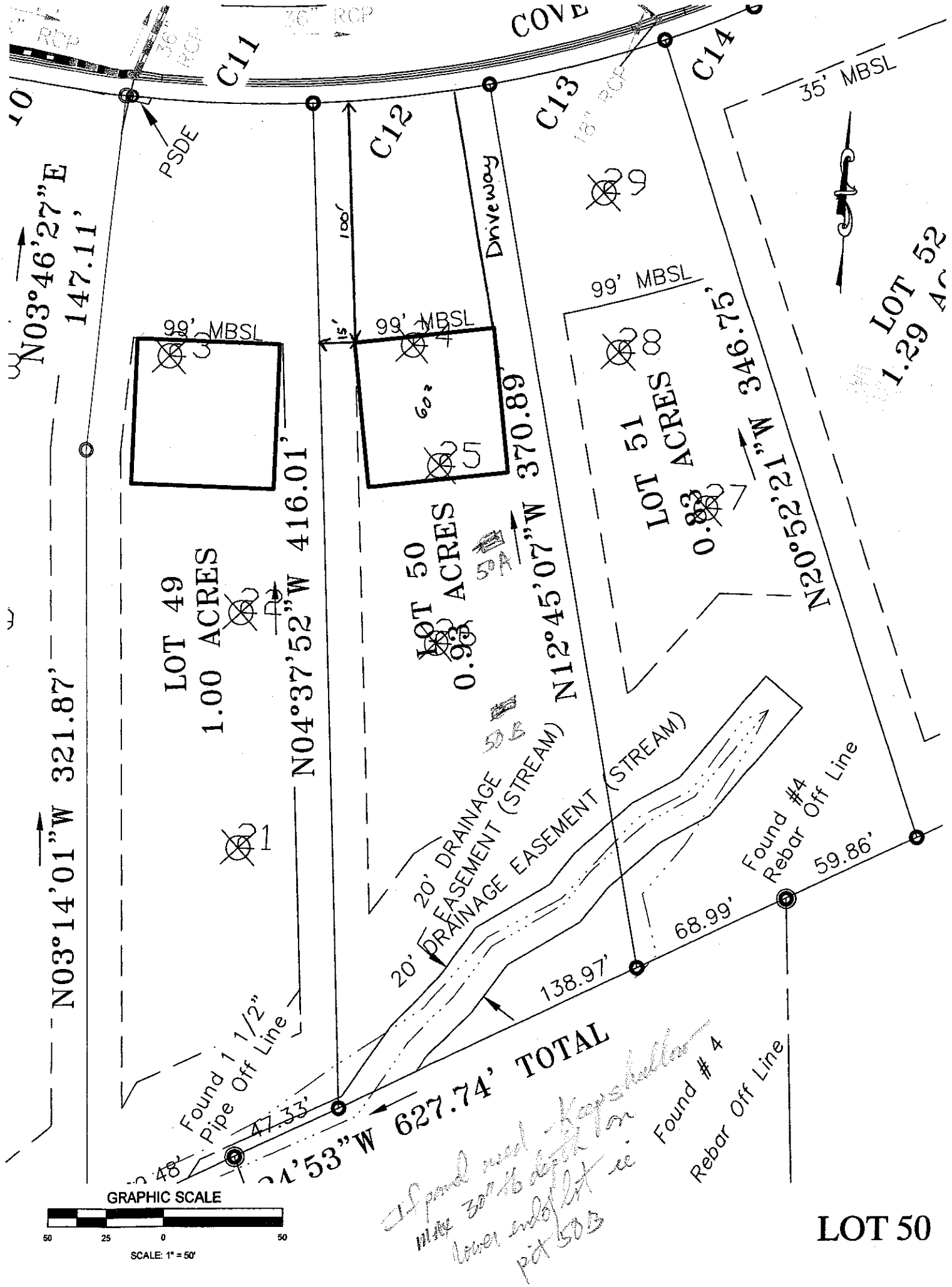
DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

APPROVED JAN 27 2015

PROPERTY ID #: Lot 50; Chesapeake Pointe
DATE OF EVALUATION: 11/05/2014
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB #5	L 8-9%	0"-10"	RBr CL WSBK	SS SP FR NEXP	Chroma 2 @ 26"	26"	n/a	None	Unsuitable
		10"-26"	YBr C SBK	SS SP FR NEXP					
AB #6	L 8-9%	0"-12"	RBr CL WSBK	SS SP FR NEXP	Chroma 2 @ 30"	30"	n/a	None	.25
		12"-24"	YBr C SBK	SS SP FR NEXP					
		24"-30"	YBr CL WSBK	SS SP FR NEXP					
AB #7	L 1-2%	0"-7"	Br SCL WSBK	SS SP FR NEXP		48"	Few to Common Saporlite inclusions.	None	.3
		7"-36"	R C SBK	SS SP FR NEXP					
		36"-48"	R CL WSBK	SS SP FR NEXP					
AB #8	L 8-9%	0"-12"	Br SL GR	NS NP VFR NEXP		48"	Few lithochromic YBrs	None	.3
		12"-24"	R C SBK	SS SP FR NEXP					
		24"-48"	R CL SBK	SS SP FR NEXP					

COMMENTS: _____


C11
C12
C13
C14
COVE
PSDE
Driveway
100'
15'
35' MBSL
99' MBSL
99' MBSL
99' MBSL
N03°46'27"E
147.11'
N03°14'01"W 321.87'
N04°37'52"W 416.01'
N12°45'07"W 370.89'
N20°52'21"W 346.75'
LOT 49
1.00 ACRES
LOT 50
0.93 ACRES
LOT 51
0.83 ACRES
LOT 52
1.29 AC
60'
50A
50B
20' DRAINAGE EASEMENT (STREAM)
20' DRAINAGE EASEMENT (STREAM)
Found #4 Rebar Off Line
59.86'
68.99'
138.97'
Found 1 1/2" Pipe Off Line
47.33'
627.74' TOTAL
Found # 4 Rebar Off Line
GRAPHIC SCALE
50 25 0 50
SCALE: 1" = 50'
LOT 50

SOIL/SITE EVALUATION
(Continuation Sheet)

Sheet of

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID NO.:
DATE OF EVALUATION:
COUNTY:

PROFILE #	1940 LANDSCAPE POSITION/ SLOPE %	HORIZON ON DEPTH (IN.)	SOIL MORPHOLOGY .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY .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
LOT 50 FRONT 24	summit	0-4 A	Loam Mo gr	fr ss sp	brown	few	loam sapo	inc	
		4-24 Bt1	c Mo sbk	fr ss sp	light red	yellow conc	brown mottles	inc	
		24-40 Bt2 C	Mo sbk	fr ss sp	light red	yellow conc.	common → many	loam sap	
		40-47 BC	CL wk sbk	fr ss sp	light red	common	sap inc		
LOT 51 BACK 27	footslope near drainage area	0-13 Bt1	L Mo sbk	fr ss sp	light brown				
		13-30 Bt2	scL Mo sbk	fr ss sp	yellow brown	red/yellow Mottles	Mn concret		
		30-40 Bt3 C	Mo sbk	fr ss sp	yellow brown	common	yellow/conc.	+ comm	
		40-43+ Btg	Mo sbk	fr vst vpl	gray matrix	w/ yellow-orange mottles			Chroma 2
LOT 51 FRONT 29	side slope	0-5 A	SL Mo gr	fr ss sp	brown				
		5-17 Bt1	scL mo sbk	fr ss sp	light brown				
		17-31 Bt2	scL Mo sbk	fr ss sp	light red	few → common	loam sap inc		
		31→43 BC	CL wk sbk	fr ss sp	light red	common → many	sap (loam) inc.		
LOT 52 30	side slope .2-.25	0-5 A	SL Mo gr	fr ss sp	brown				
		5-21 Bt1	C Mo sbk fr	fr ss sp	light red				
		21-32 Bt2	c mo sbk fr	ss sp	light red	few to common	yellow/brown mottle sap inc		
		32-45	c Mo sbk fr	ss sp	light red	common → many	loam sap inc		
[illegible]		0-2	[illegible]						
		2-24	sbk [illegible]	[illegible]	[illegible]				03
		24-59	massive [illegible]	[illegible]					
			Warm Soil/Sap Standing						

COMMENTS:

9-27-06

SOB

0-8 wk sbk brn scl fr sssp

8-40 wk-m sbk yrd/cl fr sssp

40-57 m mbk/sbk gbrn cl fr sssp
chn 3/4 mottles
approaching chn 2 @ pit bottom

30" max th

.25 ≤ 40"

S&ME, INC.

SITE/SOIL EVALUATION

Project No. _____ **Phone No.** _____ **Date:** _____
Location _____ **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: _____ **Water Supply:** **On-Site Well** ☐ **Community** ☐ **Public** ☐ **Evalulation:** **Auger Boring** ☐ **Pit** ☐ **Cut** ☐

Weather: _____ **Antecedent Moisture** _____ **Surface Water:** _____

FACTORS	PROFILE 23 Lot 49 - Front	PROFILE 25 Lot 56 - Middle	PROFILE 26 Lot 50 - Back	PROFILE 28 Lot 28 - Middle
Landscape Position %	L	L	L	L
Horizon Depth I	0 - 6	0 - 9	0 - 18	0 - 32
Color Munsell	Br	Br	Red	Yel Br/Br
Texture	SL	SL	C	SL/SCL
Structure	Mo GR	Mo GR	Mo SBK/ABK	WK/Mo SBK
Consistence	FR SS/SP	FR SS/SP	FR SS/SP	FR SS/SP
Boundary				
Horizon Depth II	6 - 22	9 - 18	18 - 48	32 - 48
Color – Munsell	Red	Red	Red	Yel
Texture	C	C	CL	SCL
Mottles	—	—	C Yel Brd gray	C Chr. 2
Structure	Mo SBK	Mo SBK	WK SBK	WK/Mo SBK
Consistence	FR SS/SP	FR SS/SP	FR SS/SP	FR SS/SP
			* Yel Brd gray Relic	
Boundary			M/C Sap	ap wall
Horizon Depth III	22 - 32	18 - 51		0 - 27
Color – Munsell	Red	Red		Br / Red
Texture	C	CL		SL / C
Mottles	F/C Yel Br	C Sap		
Structure	WK ABK	WK SBK		GR/Mo SBK
Consistence	FR SS/SP	FR SS/SP		FR SS/SP
		Yel Br & gray Relic Mottles		
Boundary				
Horizon Depth IV	32 - 50			27-48
Color – Munsell	Red			Yel Br
Texture	CL			SCL
Mottles	C Sap			C Chr. 2
Structure	WK SBK			WK SBK
Consistence	FR-FI SS/SP			FR SS/SP
				C Red Conc.
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite				
LTAR				
Classification				
	.25 to 50"	.3 to 51"?	.25 to 48"	.25 to 27-32"

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	agular blocky
pl	platy
pr	prismatic