

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

Reference: Data Sheet for Chesapeake Point Lot 32; Cove Creek Loop; Iredell County, NC

House Footprint: 70' x 50'
Building Setbacks: 35' front/50'rear/15' side
Water Source: Community Water
Number of Bedrooms: 4/480 GPD
Proposed LTAR Initial: 0.25 GPD/FT2
Proposed LTAR Repair: 0.1 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: Non Pretreated Drip
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 20" for the initial system

OK TLH

APPROVED SEP 08 2015

Line	Design Length	Actual Length	Elevation
Pink 1	110'	115'	G
Orange 2	115'	127'	R
Blue 3	100'	100'	A
Pink 4	85'	85'	V
Orange 5	70'	70'	I
			T
			Y

Initial System: 480' 25% Reduction **Repair System:** 4800 FT2 Non Pretreated Drip

Comments:

The purpose of this evaluation was to re-permit this lot for a 4-bedroom system. Since the initial permit was issued, the lot has been enlarged by the developer. Additional borings and backhoe pits have been dug in the area. The previously permitted system for this lot was in the front. The initial system is in the same area that was previously permitted. The house site is where the repair area was permitted. It has now been located below the old road bed.

3) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE EXAMINATION BY AN ATTORNEY. THE PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS OR CONDITIONS NOT OBSERVED OR SHOWN HEREON.

4) THIS LOT LIES WITHIN A SUBDIVISION THAT WAS PREVIOUSLY TIED TO THE NORTH CAROLINA GRID SYSTEM.

5) BASIS OF BEARINGS: PLAT BOOK 51 PAGE 77 - DATED: MARCH 22, 2007

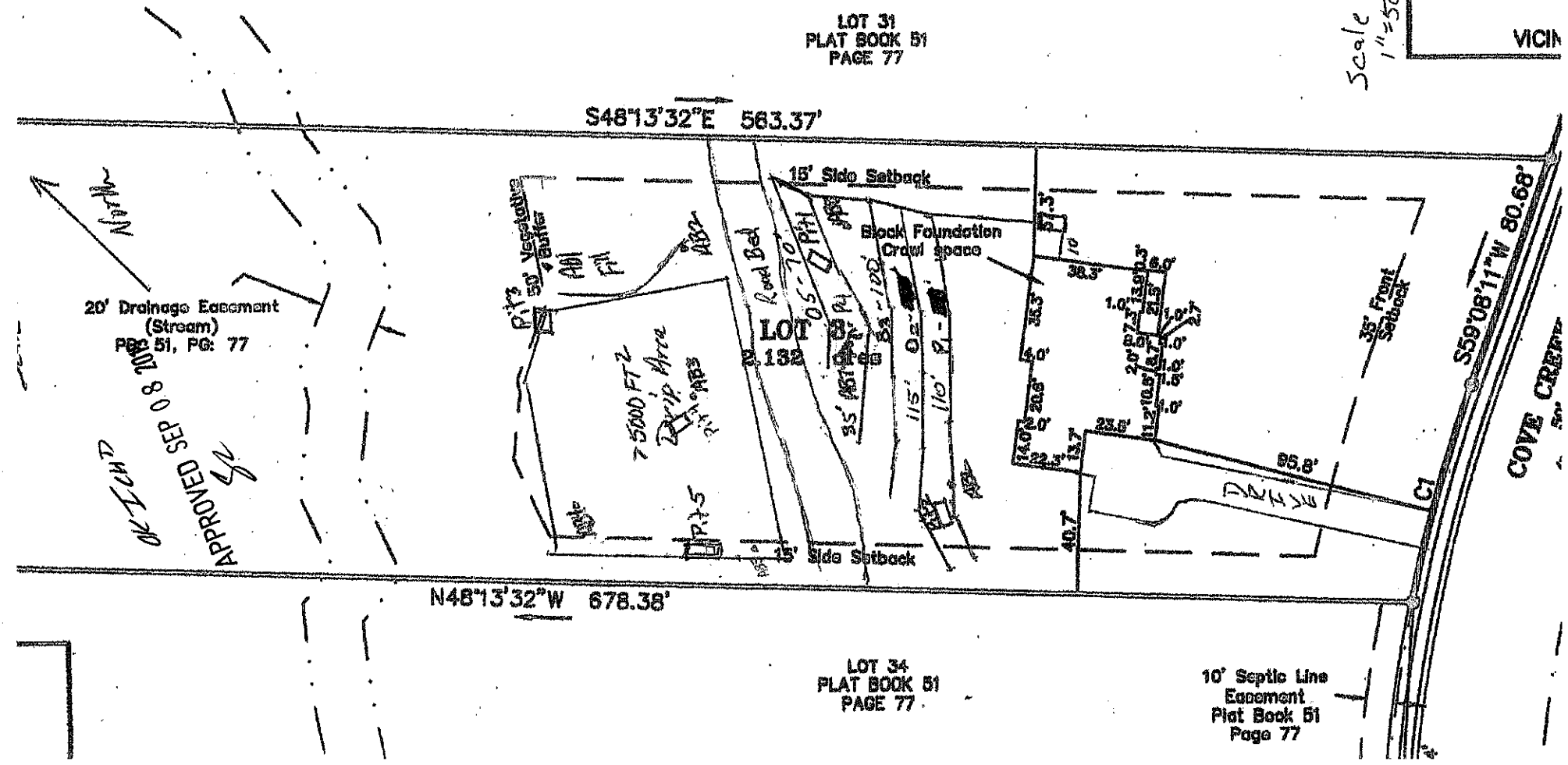
6) #4 REBAR AT ALL CORNERS, UNLESS OTHERWISE NOTED. ALL CORNERS "FOUND" or "SET" ARE FLUSH WITH THE GROUND, UNLESS OTHERWISE NOTED.

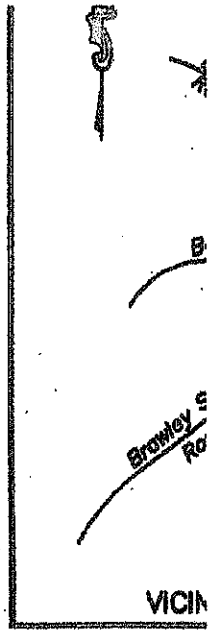
7) THE LOCATION OF UTILITIES AS SHOWN HEREON, WHETHER PUBLIC OR PRIVATE, ARE BASED ON THE LOCATION OF VISIBLE ABOVE GROUND APPURTENANCES ONLY. OTHER UTILITIES WHICH WERE NOT OBSERVED AND NOT SHOWN HERON MAY EXIST. IT IS THE OWNERS/TENANTS RESPONSIBILITY TO VERIFY THE LOCATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. GEOMATIC CONCEPTS, PLLC CANNOT ASSUME RESPONSIBILITY FOR MISIDENTIFICATION OR OMISSION OF UNDERGROUND UTILITIES.

8) THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

9) ALL LOTS ARE SUBJECT TO A 10' DRAINAGE AND UTILITY EASEMENT ON ALL SIDES.

10) THIS PROPERTY LIES IN FLOOD ZONE "X" AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL 3710463600J, WITH AN EFFECTIVE DATE OF MARCH 18, 2008.





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

PROPERTY ID #: Lot 32; Chesapeake Pointe
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: CP II LLC _____ APPLICATION DATE _____
ADDRESS: 3125 Presidential Parkway; Suite 200; Atlanta, GA 30340 DATE EVALUATED: 7/2015
PROPOSED FACILITY: 4-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 2.13 Acres
LOCATION OF SITE: Lot 32; 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)		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	
AB 1	L 6-8%	0"-8"	Br SCL WSBK	SS SP FR SEXP	YBr's @ 28" Chroma 2 @ 32"	32"	Few to common saporlite inclusions @ 24"-32"	None	.25
		8"-24"	R C SBK	SS SP FR SEXP					
		24"-32"	R CL WSBK	SS SP FR SEXP					
AB 2	L 6-8%	0"-27"	Br SCL WSBK	SS SP FR SEXP	YBrs 32"-42"	48"	Few to common saporlite inclusions @ 42"-48"	None	.25
		27"-42"	R C SBK	SS SP FR SEXP					
		42"-48"	R CL WSBK	SS SP FR SEXP					
AB 3	L 6-8%	0"-13"	Br SCL WSBK	SS SP FR SEXP	YBrs and Mn @ 34"	48"	Few to Common Saporlite inclusions 44"-48"	None	.25
		13"-44"	R C SBK	SS SP FR SEXP					
		44"-48"	YR CL WSBK	SS SP FR SEXP					
AB 4	L 6-8%	0"-30"	R C SBK	SS SP FR SEXP	YBrs 10"-30" No YBrs in Saporlite	30"	PS	None	.25
		30"-34"	V L Saporlite M	NS NP VFR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200FT2	>4800FT2
System Type(s)	25% Reduction	Drip
Site LTAR	.3	.1

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

PROPERTY ID #: Lot 32; Chesapeake Pointe
DATE OF EVALUATION: 7/2015
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
AB #5	L 6-8%	0"-27"	YBr SCL WSBK	SS SP FR SEXP	Chroma 2 @ 27"	27"		None	.25 .1 Drip
AB #6	L 4-5%	0"-18"	YBr SCL WSBK	SS SP FR SEXP		48"	Few to common saporlite inclusions 32"-40" PS	None	.3
		18"-32"	RBr C WSBK	SS SP FR SEXP					
		32"-40"	YBr CL WSBK	SS SP FR SEXP					
		40"-48"	V SL Saporlite M	NS NP VFR NEXP					
AB #7	L 4-5%	0"-18"	R C SBK	SS SP FR SEXP		43"			.3
		18"-43"	R SCL WSBK	SS SP FR SEXP					
			AR @ 43"						
AB #8	L 4-5%	0"-4"	Fill			40"	Few to Common Saporlite Inclusions 24"-40" PS	None	.3
		4"-24"	R C SBK	SS SP FR SEXP					
		24"-40"	R CL	SS SP FR SEXP					
		40"-48"	V SL Saporlite M	NS NP VFR NEXP					
Pit #1	L 4-5%	0"-32"	R C SBK	SS SP FR SEXP		59"	Few to Common Saporlite Inclusions 32"-59" PS	None	.3
		32"-59"	R CL WSBK	SS SP FR SEXP					
		59"-65"	V L Saporlite M	NS NP VFR NEXP					

OK TLH

APPROVED SEP 08 2015

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
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PROPERTY ID #: Lot 32; Chesapeake Pointe
DATE OF EVALUATION: 7/2015
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
Pit # 2	L 4-5%	0"-13"	YBr SCL WSBK	SS SP FR SEXP	Chr. 2 @ 44"	44"	PS	None	.25
		13"-27"	YBr SC WSBK	SS SP FR SEXP					
		27"-44"	V L Saporlite M	NS NP VFR NEXP					
Pit # 3	L 4-5%	0"-28"	R C WSBK	SS SP FR SEXP	Few YBrs around the root zone. Chr.2 @ 41"	41"	Few to common Saporlite inclusions 28"-41"	None	.25 .1 Drip
		28"-41"	R CL WSBK	SS SP FR SEXP					
Pit # 4	L 4-5%	0"-10"	YBr SL GR	NS NP VFR NEXP	Chr. 2 @ 27" Chr. 2 @ 22" SC Gm	27"	Few to common Saporlite inclusions 10"-27"	None	.25 .1 Drip OR Tcha SC
		10"-27"	YBr CL WSBK	SS SP FR SEXP					
Pit # 5	L 4-5%	0"-10"	YBr SL GR	NS NP VFR NEXP		23"	Few to common Saporlite Inclusions 10"-23"	None	.1 Drip
		10"-23"	YBr CL WSBK	SS SP FR SEXP					

COMMENTS: Pit#5 was only dug to 23" due to the fact that MA&A are proposing a drip repair in this area.

SOIL/SITE EVALUATION

(Continuation Sheet)

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DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID NO.: Chs. A4
DATE OF EVALUATION: 3-2-06
COUNTY: Iredell

Lot 32 : 33

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 32 1	(2A) 8-10%	0-15	wsbk scl	SS SP Fr	BrR				.3
		15-37	msbk c	SS SP Fr	R FSap				46"
		37-46	wsbk cl	SS SP Fr	R Ft.c Sap				
2	8-10%	0-8	wsbk scl	SS SP Fr	BrR				52"
		8-28	msbk c	SS SP Fr	RF Sap				.3
		28-42	wsbk scl	SS SP Fr	RC Sap				
		42-52	mass sl	Fr					
(3)	8.24.06 12%	0-37	gr brn sl	FR SS SP					.3
		37-46	wsbk mod c	Fi ss sp	sap				
LOT 33 (2)	(3B) 7-9%	0-12	wsbk scl	SS SP Fr	R				?
		12-25	msbk c	SS SP Fr	RBr				
		25-40	wsbk scl	SS SP Fr	RBr C Sap				
		40-48	mass sl/scl	Fr	mult				
(1)	6-8%	0-20	wsbk scl	SS SP Fr	BrR				52"
		20-38	msbk c	SS SP Fr	R				.3
		38-52	wsbk cl/scl	SS SP Fr	R Ft.c Sap				

COMMENTS: