

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

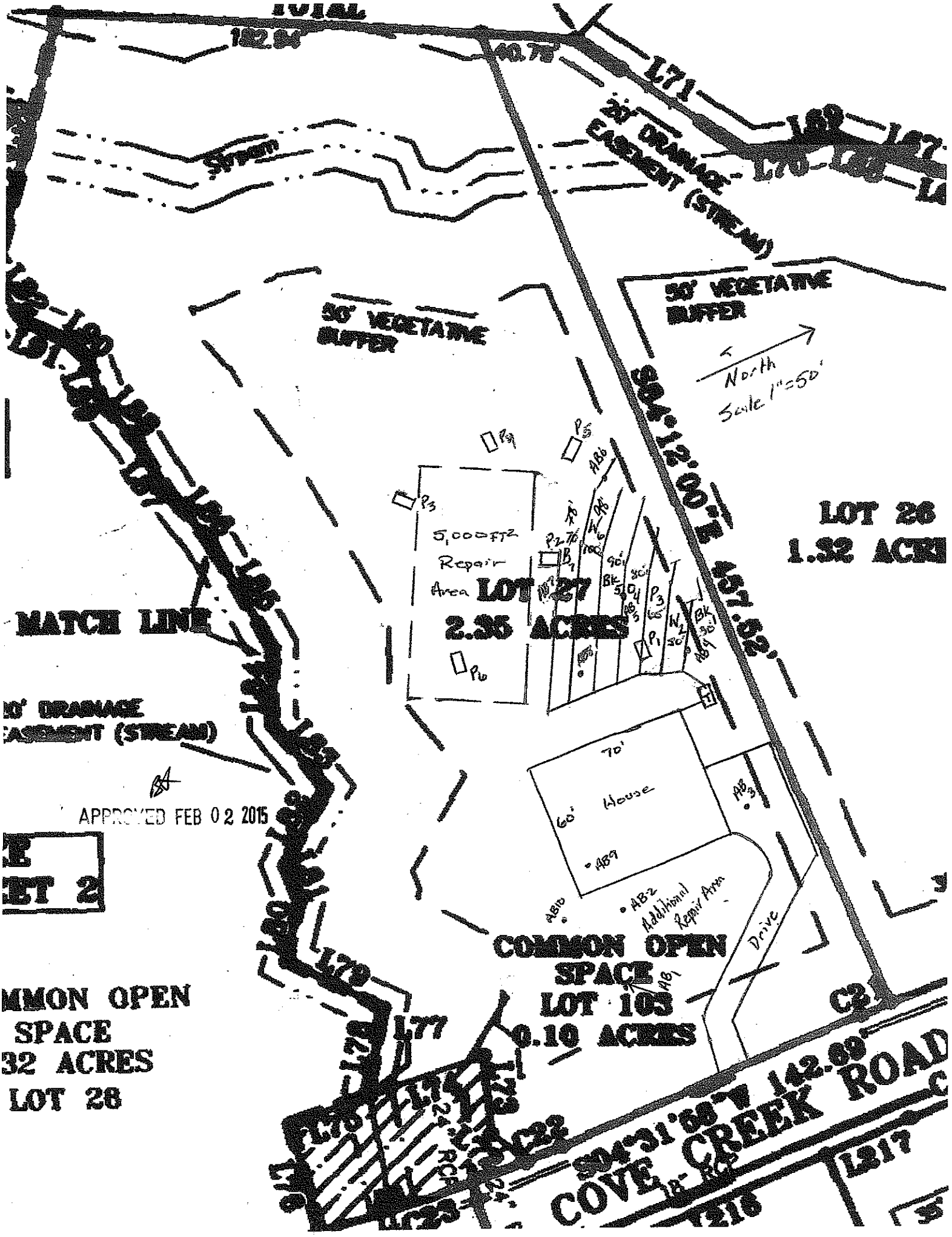
Reference: Data Sheet for Chesapeake Point Lot 27; Cove Creek Loop; Iredell County, NC
House Footprint: 70' x 60'
Building Setbacks: 35' front/50'rear/15' side
Water Source: Community Water
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2 for Initial 25% Reduction; 0.1 GPD/FT2 for Repair
Proposed System Type: 25% Reduction
Proposed Repair System Type: TSI Pretreatment Drip
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 12" for the initial system

Line	Design Length	Actual Length
Black 1	30'	30'
White 2	50'	50'
Pink 3	65'	66'
Orange 4	80'	80'
Black 5	90'	90'
White 6	100'	112'
Blue 7	70'	70'

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Initial System: 485' **Repair System:** 5000 ft2 TS I Pretreatment Drip

Comments:
The purpose of this evaluation was to permit this lot for a 4-bedroom system. The previously permitted system for this lot is an offsite system. The repair area will consist of TS I Pretreatment Drip System and will be located below the initial system up to the 50 foot buffer of the creek. There is additional repair area below the proposed driveway. Please note the house location was located using white pin flags. The proposed trench bottom of 12 inches will require additional fill of 6 inches to be brought in to allow for the required amount of cover. **The house site should not be cut.** All terraces will be filled to allow for water runoff. **Do not grade the septic area.**


30' VEGETATIVE BUFFER
30' VEGETATIVE BUFFER
30' DRAINAGE EASEMENT (STREAM)
North
Scale 1"=50'
5,000FT2 Repair Area
LOT 27
2.35 ACRES
LOT 26
1.52 ACRES
MATCH LINE
APPROVED FEB 02 2015
House
Drive
COMMON OPEN SPACE
LOT 103
0.19 ACRES
COMMON OPEN SPACE
32 ACRES
LOT 28
COVE CREEK ROAD

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

PROPERTY ID #: Lot 27; Chesapeake Pointe
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED FEB 02 2015

OWNER: CP II LLC
ADDRESS: 3125 Presidential Parkway; Suite 200; Atlanta, GA 30340
PROPOSED FACILITY: 4-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: Lot 27; Chesapeake Pointe Subdivision; Cove Creek Loop
APPLICATION DATE
DATE EVALUATED: 01/20/2015
PROPERTY SIZE: 2.35 Acres
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 8-10%	0"-17"	Br CL WSBK	SS SP FR SEXP		48"	Few to common saporlite inclusions.	None	.3 (.1 Drip)
		17"-41"	R C WSBK	SS SP FR SEXP					
		41"-48"	R CL WSBK	SS SP FR SEXP					
AB 2	L 8-10%	0"-30"	Br SL GR	NS NP VFR NEXP		36"	Few to common saporlite inclusions. PS	None	.3 (.1 Drip)
		30"-36"	RBr SCL WSBK	SS SP FR SEXP					
		36"+	V L Sap Massive	NS NP VFR NEXP					
AB 3	L 8-10%	0"-18"	R CL WSBK	SS SP FR SEXP		18"	Few to common saporlite inclusions. PS	None	.4
		18"-48"	YR L Sap Massive	NS NP VFR NEXP					
AB 4	L 8-10%	0"-20"	R C WSBK	SS SP FR SEXP		40"	Few to common saporlite inclusions. PS	None	.3
		20"-40"	RY CL WSBK	SS SP FR SEXP					
		40"-53"	R L Sap Massive	NS NP VFR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	4800 FT2
System Type(s)	25% Reduction	Drip
Site LTAR	.25	.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 27; Chesapeake Pointe
DATE OF EVALUATION: 1/20/2015
COUNTY: Iredell

APPROVED FEB 02 2015

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 8-10%	0"-12"	R SCL WSBK	SS SP FR SEXP	Chroma 2 @ 30"	30"	n/a	None	.25
		12"-30"	R SC WSBK	SS SP FR SEXP					
AB #6	L 8-10%	0"-10"	Br SCL WSBK	SS SP FR SEXP		27"		None	.25
		10"-28"	YBr SCL WSBK	SS SP FR SEXP					
AB #7	L 1-2%	0"-4"	Br L GR	NS NP VFR NEXP	Chroma 2 @ 30"	30"		None	.25
		4"-14"	YR SL GR	NS NP VFR NEXP					
		14"-30"	YR SC SBK	SS SP FR SEXP					
AB #8	L 5-6%	0"-15"	R SCL WSBK	SS SP FR SEXP	Chroma 2 @ 38"	38"	Few to common saporlite inclusions.	None	.25
		15"-30"	R SC SBK	SS SP FR SEXP					
		30"-38"	YBr CL WSBK	SS SP FR SEXP					
AB #9	L 8-10%	0"-15"	R CL WSBK	SS SP FR SEXP		48"	n/a	None	.4 (.1 Drip)
		15"-24"	R SL GR	NS NP VFR NEXP					
		24"-32"	RBr SL GR	NS NP VFR NEXP					
		32"-48"	RBr SCL WSBK	SS SP FR SEXP					

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

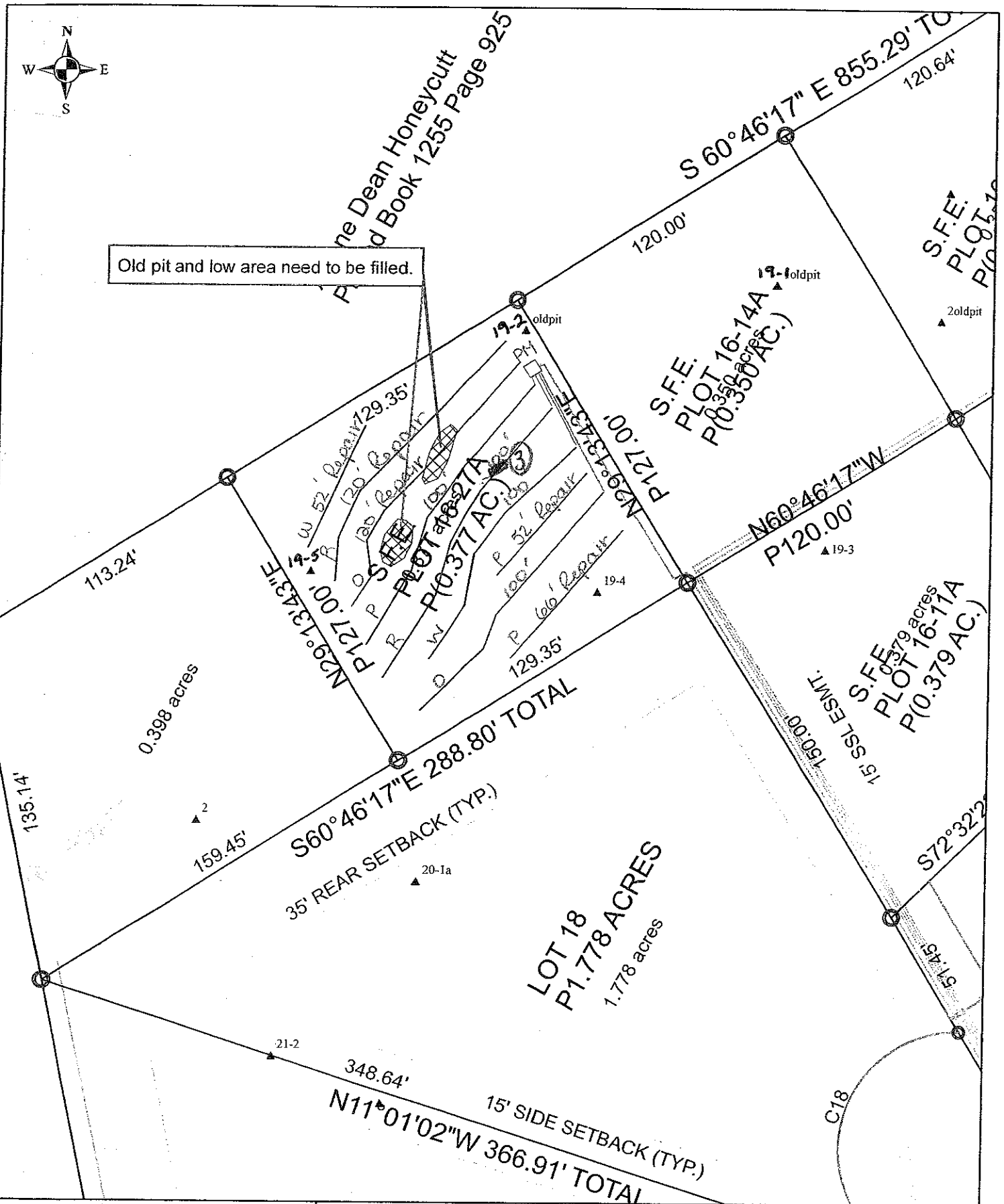
DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: Lot 27; Chesapeake Pointe
DATE OF EVALUATION: 1/20/2015
COUNTY: Iredell

APPROVED FEB 02 2015

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 #5	L 8-10%	0"-5"	Br SCL WSBK	SS SP FR SEXP	Chroma 2 @ 24"	24"	n/a	None	.1 Drip
		5"-24"	YR C ABK	SS SP FR SEXP					
Pit #6	L 2-3%	0"-15"	Br SL GR	NS NP VFR NEXP	Chroma 2 @ 24"	24"		None	.1 Drip
		15"-28"	YBr SC SBK	SS SP FR SEXP					

COMMENTS:



Scale: 1 inch equals 50 feet	S&ME	S.F.E. Lot 16-27A Chesapeke Point	FIGURE
Drawn by: JBP		Detailed, Scaled Site Plan	2
Reviewed by: KS		Iredell County, NC	
Date: March 2007			

T OF ENVIRONMENT AND NATURAL RESOURCES
OF ENVIRONMENTAL HEALTH
WASTEWATER SECTION

Sheet ____ of ____
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ches. Pd. APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 5/27/04
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: 5
LOCATION OF SITE: Lot 19 (old) 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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 4%	0-5	mgr sl	FR SS/SP	DK br				PS 0.75
		5-14	msbk c	FR SS/SP	RB				
		14-48	msbk c	FR/F SS/SP	R C; RB F; SAP				
2	L 2-4%	0-5	mgr sl	FR SS/SP	DK br				PS 0.3
		5-13	msbk c	FR SS/SP	R				
		13-41	msbk c	F SS/SP	R F; SAP				
		41 53	msbk cl	F SS/SP	R F; C SAP				
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: M Mabe
OTHER(S) PRESENT: _____

COMMENTS: _____

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... OF ENVIRONMENTAL HEALTH
...E WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ches. Pd. APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 7/26/06
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 19 (Old) 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
1									
2	L 2-4%	0-16	wsbk scl	F SS/SP	br				PS 0.3
		16-47	msbk c	FR SS/SP	R				
3	L 6-8%	0-9	wsbk scl	FR SS/SP	Br				24 to 28" 0.3 28-50"
		9-39	msbk c	FR SS/SP	R				
		39-52	wsbk cl	FR SS/SP	F Few Sap inclu 22"-28" F/C Yb			stillic	
4	L 6-8%	0-29	msbk scl	FR SS/SP	R				PS 0.3
		29-50	msbk scl	FR SS/SP	R Few sap		inclu		

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: M Mabe
OTHER(S) PRESENT: _____

COMMENTS: _____