Stewart's Soil & Septic
Bonnie J.S. Cobb, CSS, LSE
73 Quaker Ridge Road
Durham, Maine 04222
(207) 899-8397

June 29, 2026
Project # 26046R

Gilbert Plourde
5 Eric's Lane
Bowdoin, ME 04287
(207) 319-8241
gilplourde@gmail.com

Preliminary Site Evaluation: Carding Machine Road (across from 112), Bowdoinham, ME

On June 3, 2026 and June 25, 2026, I performed a preliminary site evaluation at the above-mentioned property for the purpose of subsurface wastewater disposal. Currently, Maine Subsurface Wastewater Disposal Rules specify a minimum of 9-inches of suitable soil prior to a seasonal-high watertable, restrictive layer, or bedrock/ledge (limiting factors) outside of the Shoreland Zone. The Town of Bowdoinham has an enhanced requirement for minimum suitable soil conditions of 15-inches prior to a limiting factor for lots in any proposed subdivisions regardless of Shoreland status.

"Passing" areas were identified throughout the 52+/- acre parcel (yet to be officially divided), and approximate locations are shown on the attached sketch plans. Soil borings were flagged in the field using pink survey tape and labeled TP-1 - B-13 (locations were not survey or GPS located at this time).

These "passing" soil borings are composed of soils originating primarily in glacial till (fine sandy loam over ledge in many cases) and lacustrine sediments (fine sandy loam over firm silt loam). Limiting factors ranged from 11-inches to 26-inches (seasonal high water-table and/or ledge). All areas examined are sufficient in size for a typical wastewater disposal system for a residential home. A conventional stone bed disposal field for a 3-bedroom home on the glacial till type soils would be approximately 20-feet X 45-feet (3-bedroom in areas of lacustrine soil would be approximately 20-feet X 60-feet). A smaller footprint may be achieved with the use of proprietary devices such as Eljen In-Drains (i.e.: 3-bdrm disposal field using Eljen In-Drains would be approximately 11-feet x 28-feet or 15-feet X 28-feet, depending on soil type).

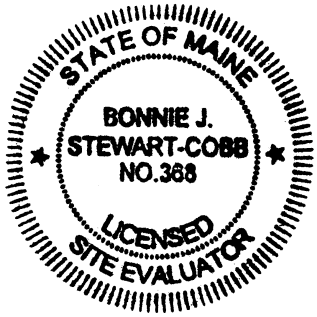
It is important to note that while soil conditions may meet soil suitability requirements for the State of Maine as well as the Town of Bowdoinham for an individual lot, further division of land meeting subdivision criteria has increased soil requirements within the Town. The increased requirements mean that not all "passing" borings shown are sufficient for creation of a subdivision. Additionally, there is a man-made pond along the southern property line which requires a minimum 50-foot setback and an existing cemetery which requires a minimum 25-foot setback for any proposed subsurface wastewater disposal field.

Attached you will find a sketch plan showing the approximate locations of the soil explorations and their corresponding soil logs. Please feel free to contact me with any questions regarding the soils on this site.

Sincerely,

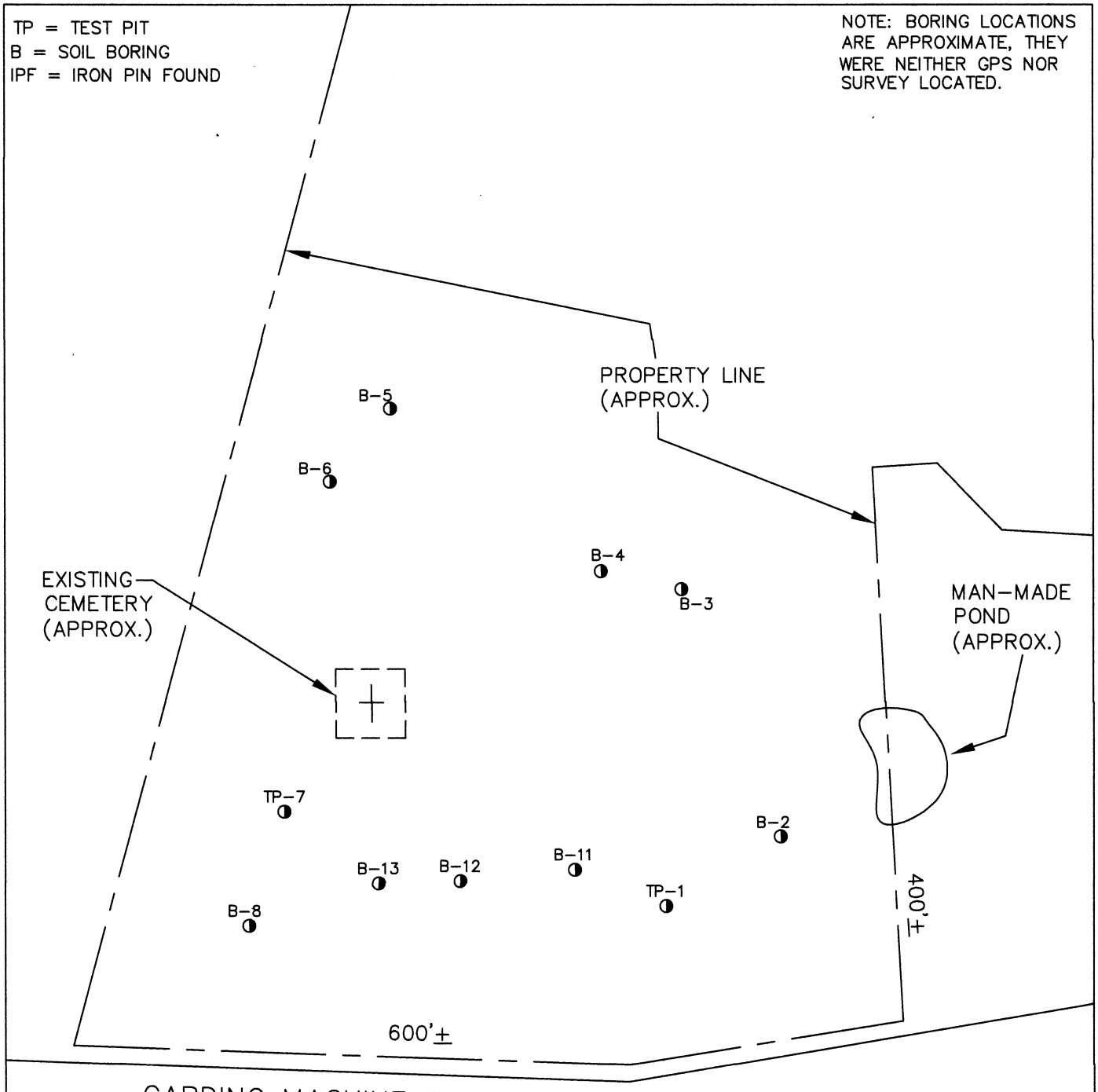
Bonnie J.S. Cobb

STEWART'S SOIL & SEPTIC
Bonnie J.S. Cobb, CSS, LSE



TP = TEST PIT
B = SOIL BORING
IPF = IRON PIN FOUND

NOTE: BORING LOCATIONS ARE APPROXIMATE, THEY WERE NEITHER GPS NOR SURVEY LOCATED.



#112
CARDING MACHINE RD.
(APPROX.)

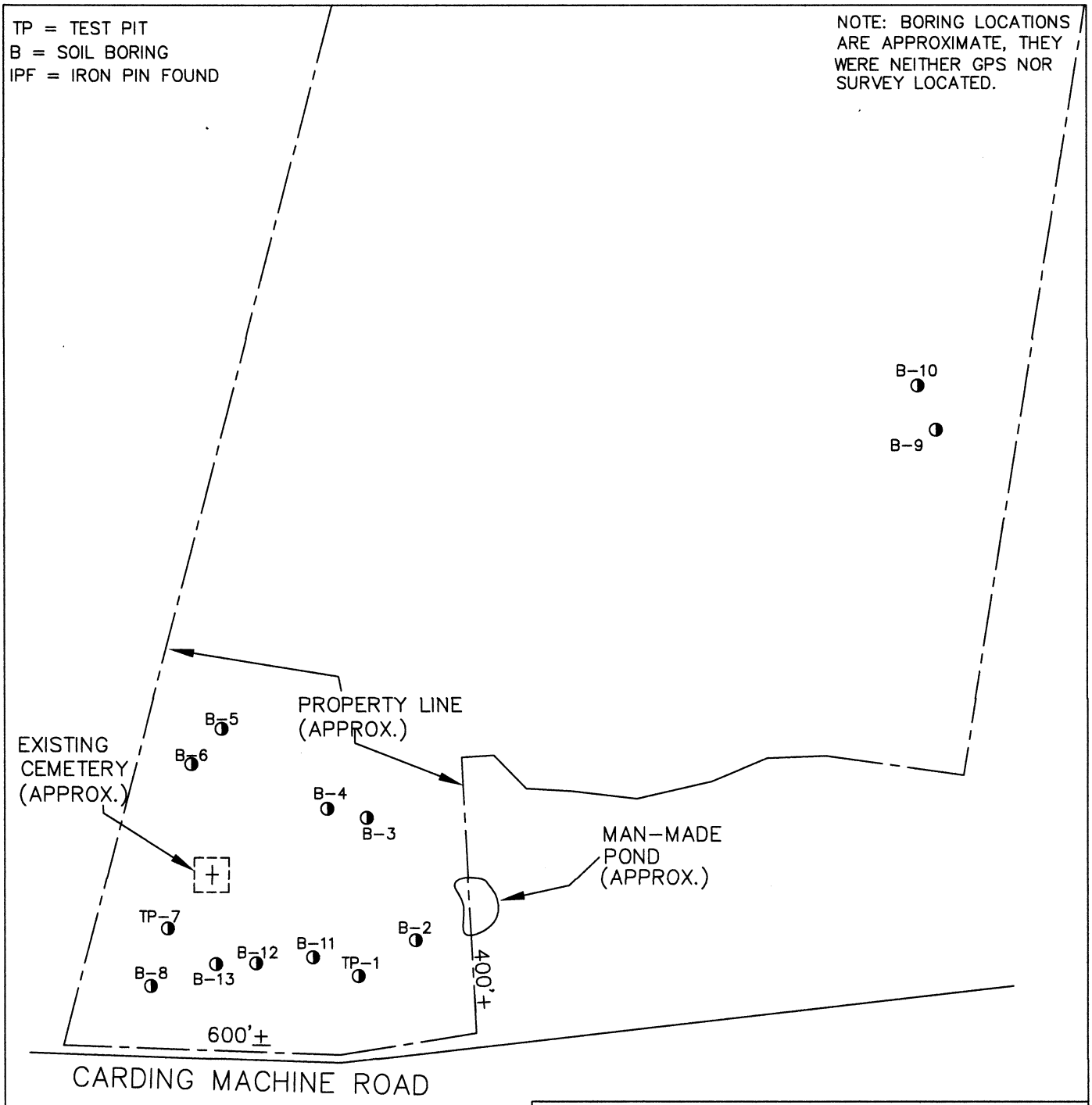
N
MAGNETIC

PRELIMINARY SKETCH PLAN

SITE LOCATION: CARDING MACHINE RD.
(ACCROSS FROM #112) BOWDOINHAM, ME

FOR: GILBERT PLOURDE
5 ERIC'S LN., BOWDOIN 04287

PREPARED BY: STEWART'S SOIL & SEPTIC
BONNIE J.S. COBB, SE #368
SCALE: 1" = 100'
DATE 6/29/2026 JOB #26046R



PRELIMINARY SKETCH PLAN

SITE LOCATION: CARDING MACHINE RD.
(ACCROSS FROM #112) BOWDOINHAM, ME

FOR: GILBERT PLOURDE
5 ERIC'S LN., BOWDOIN 04287

PREPARED BY: STEWART'S SOIL & SEPTIC
BONNIE J.S. COBB, SE #368
SCALE: 1" = 200'
DATE 6/29/2026 JOB #26046R

FORM F

26046

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
Carding Machine Rd. (across from#112)	Gilbert Plourde	Bowdoinham

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-1 [X] Test Pit [ ] Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6				
7				
8			YELLOWISH	
9			BROWN	
10				
13				
14				
16				
18			LT. OLIVE	COMMON &
20			BROWN	DISTINCT
		SW.FIRM	LT. OLIVE	
			GRAY	
30		LEDGE @ 26"		
40				

hydric / non-hydric	Slope %	Limiting factor	ground water / restrictive layer / bedrock
non-hydric	0-3	26"	bedrock

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 3 Profile / C/AIII Drainage Class / --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-2 [ ] Test Pit [X] Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6				
7				
8				
9				
11				
12			LT. OLIVE	
14			BROWN	COMMON &
16				DISTINCT
18		SOMEWHAT	GRAY	
20		FIRM		
30				
40				

hydric / non-hydric	Slope %	Limiting factor	ground water / restrictive layer / bedrock
non-hydric	0-3	11"	ground water

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 3 Profile / D Drainage Class / --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-3 [ ] Test Pit [X] Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6				
7				
8			YELLOWISH	
9			BROWN	
10				
12				
15				
16			LIGHT	COMMON &
18			OLIVE	DISTINCT
20			BROWN	
30		LEDGE @ 26"		
40				

hydric / non-hydric	Slope %	Limiting factor	ground water / restrictive layer / bedrock
non-hydric	0-3	12"	ground water

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 2 Profile / D/AIII Drainage Class / --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-4 [ ] Test Pit [X] Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6				
7				
8				
9				
10				
12				
14				
16			LT.OLIVE	COMMON &
18			BROWN	DISTINCT
20				
		LEDGE @ 20"		
30				
40				

hydric / non-hydric	Slope %	Limiting factor	ground water / restrictive layer / bedrock
non-hydric	3-8	12"	ground water

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 2 Profile / D/AIII Drainage Class / --- Design Class

Professional Endorsements (as applicable)

C.S.S. signature: ____ Date: ____

name printed/typed: ____ Lic.#: ____

L.S.E. signature: Bonnie J.S. Cobb Date: 6/8/2026 & 6/29/26

name printed/typed: Bonnie J.S. Cobb Lic.#: 368

STATE OF MAINE
BONNIE J. STEWART-COBB NO.368
LICENSED SITE EVALUATOR

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Stewart's Soil and Septic

FORM F

26046

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
Carding Machine Rd. (across from#112)	Gilbert Plourde	Bowdoinham

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-5 ☐ Test Pit ☒ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6				
7				
8			YELLOWISH	
9			BROWN	
10				
12				
14				
16				
18			L.O.B.	
20				COMMON &
			GRAY	DISTINCT
30		LEDGE @ 24"		
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	▫ ground water ▫ restrictive layer ▪ bedrock
	0-3	24"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 2 Profile / C/AIII Drainage Class / --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-6 ☐ Test Pit ☒ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6			YELLOWISH	
7			BROWN	
8				
9				
10				
12				
14				
15				
18			L.O.B.	
20				COMMON &
	SILT	FIRM	GRAY	DISTINCT
	LOAM			
30				
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	▪ ground water ▫ restrictive layer ▫ bedrock
	3-8	15"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 8 Profile / C Drainage Class / --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-7 ☒ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6			YELLOWISH	
7			BROWN	
8				
9				
10				
12				
14				
16				
18			LIGHT OLIVE	
20			BROWN	COMMON &
				DISTINCT
	VFSL -	SOMEWHAT	GRAY	
	SILT	FRIM		
	LOAM			
30				
		LEDGE @ 32"		
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	▪ ground water ▫ restrictive layer ▫ bedrock
	3-8	16"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 8 Profile / C/AIII Drainage Class / --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-8 ☐ Test Pit ☒ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6				
7				
8			YELLOWISH	
9			BROWN	
10				
12				
14				
16				
18	GRAVELLY			
20	FINE SANDY	SOMEWHAT		
	LOAM	FIRM	L.O.B.	FEW & FAINT
		LEDGE @ 22"		
30				
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	▫ ground water ▫ restrictive layer ▪ bedrock
	3-8	22"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 3 Profile / C/AIII Drainage Class / --- Design Class

Professional Endorsements *(as applicable)*

C.S.S. signature: ____ Date: ____

name printed/typed: ____ Lic.#: ____

L.S.E. signature: Bonnie J.S. Cobb Date: 6/8/2026 & 6/29/26

name printed/typed: Bonnie J.S. Cobb Lic.#: 368

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STATE OF MAINE
BONNIE J. STEWART-COBB
NO.368
LICENSED SITE EVALUATOR

FORM F

26046

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Site

Project Name:	Applicant Name:	Project Location (municipality):
Carding Machine Rd. (across from#112)	Gilbert Plourde	Bowdoinham

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-9 ☐ Test Pit ☒ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6			YELLOWISH	
7			BROWN	
8				
9				
10				
12				
15				
16				
18			LIGHT	COMMON &
20			OLIVE	DISTINCT
	VERY FINE		BROWN	
	SANDY LOAM			
	SILT	FIRM	GRAY	
30	LOAM			
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	■ ground water ▫ restrictive layer ▫ bedrock
	8-15	15"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 8 Profile | C Drainage Class | --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-10/B-12 ☐ Test Pit ☒ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6			YELLOWISH	
7			BROWN	
8				
9				
10				
12				
14				
16				
18			LT. OLIVE	
20			BROWN	COMMON &
				DISTINCT
			GRAY	
	SILT	FIRM		
	LOAM			
30				
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	■ ground water ▫ restrictive layer ▫ bedrock
	8-15	16"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 8 Profile | C Drainage Class | --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-11 ☐ Test Pit ☒ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6			YELLOWISH	
7			BROWN	
8				
9				
10				
12				
14				
16				
18			LT. OLIVE	
20			BROWN	COMMON &
				DISTINCT
			LIGHT OLIVE	
			GRAY	
30				
	POSSIBLE LEDGE @ 26"			
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	▫ ground water ▫ restrictive layer ■ bedrock
	0-3	26"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 3(8) Profile | C/AIII Drainage Class | --- Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: B-13 ☐ Test Pit ☒ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	FINE	FRIABLE	BROWN	
3	SANDY			
4	LOAM			
5				
6			YELLOWISH	
7			BROWN	
8				
9				
10	GRAVELLY			
12	SANDY			
14	LOAM			
16				
18				
20			LT. OLIVE	COMMON &
			BROWN	DISTINCT
	LEDGE @ 22"			
30				
40				

▫ hydric ▫ non-hydric	Slope %	Limiting factor	▫ ground water ▫ restrictive layer ■ bedrock
	0-3	22"	

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group

L.S.E. Soil Classification: 2 Profile | C/AIII Drainage Class | --- Design Class

Professional Endorsements *(as applicable)*

C.S.S. signature: ____ Date: ____

name printed/typed: ____ Lic.#: ____

L.S.E. signature: Bonnie J.S. Cobb Date: 6/29/26

name printed/typed: Bonnie J.S. Cobb Lic.#: 368

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STATE OF MAINE
BONNIE J. STEWART-COBB NO.368
LICENSED SITE EVALUATOR

Stewart's Soil and Septic