

Site Assessments Preliminary (office) Preparation & Assessment

Kelly Galloway, P.Eng.

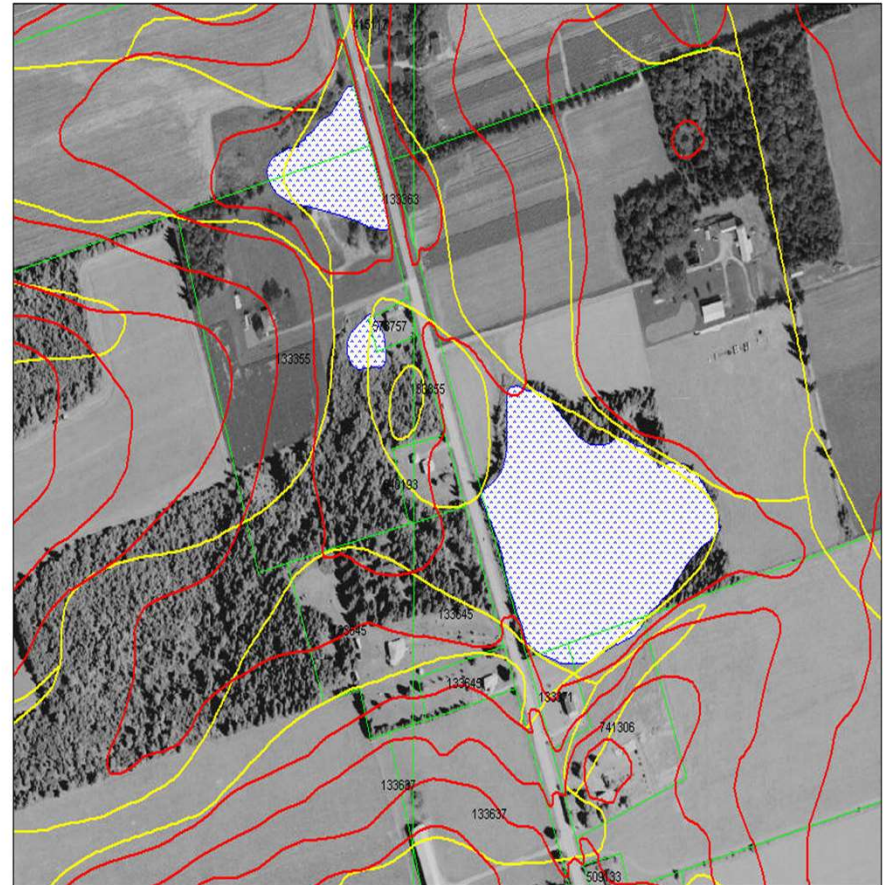


Stratford, PE

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Preliminary Office Assessment

- PEI Soil Survey Soil Type
- Contours
- Watercourses, wetlands
- Orthophoto
- Property boundaries



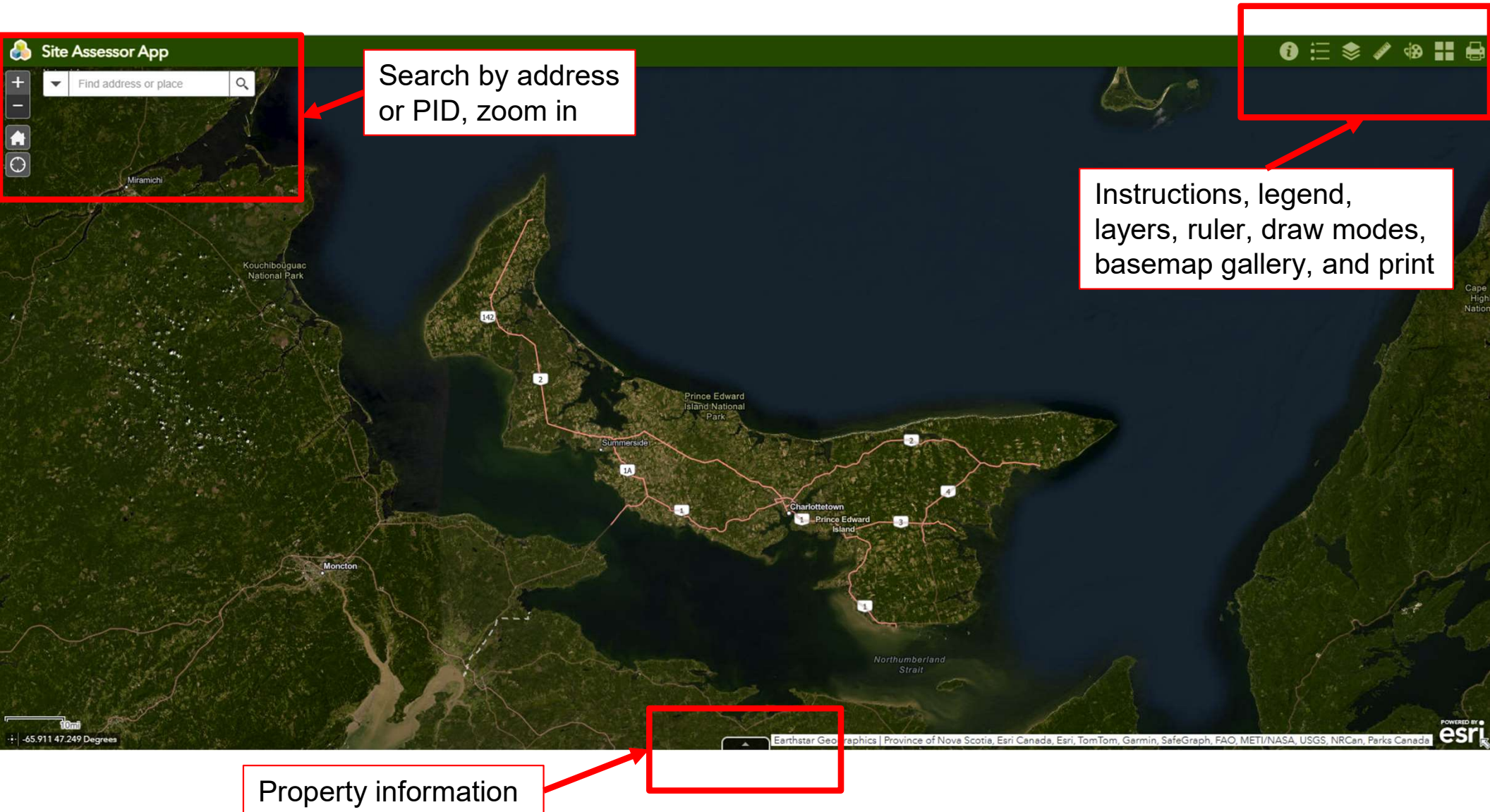
PEI Site Assessor App

<https://peigov.maps.arcgis.com/apps/webappviewer/index.html?id=6a0b9411f7814e5aa366f00c9234d991>

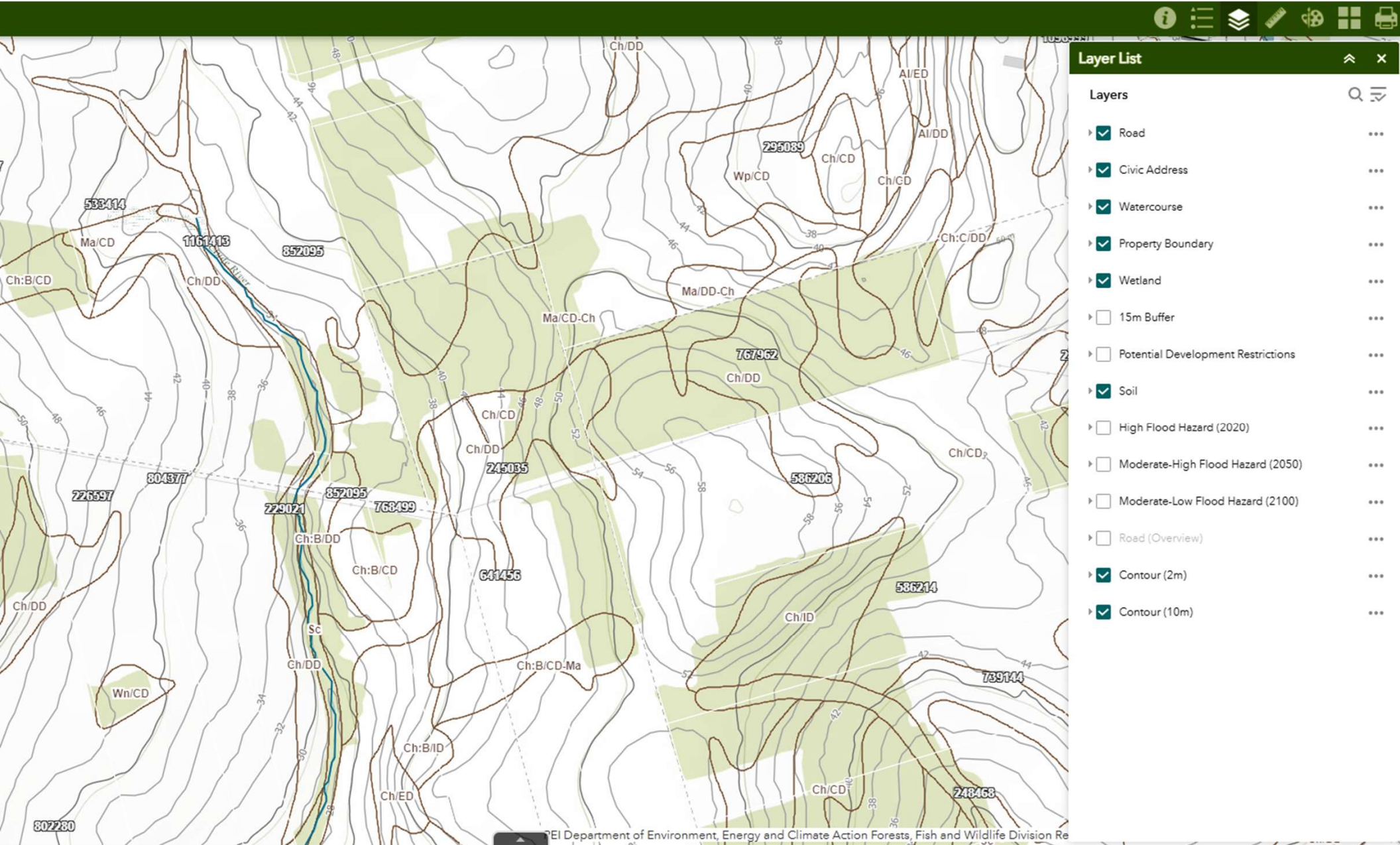
Link also available from the **Course Resources & Reference Material** page on ETC's web site.
engtech.ca/PEI-SA-course-2025

Address Locator (Civic to PID & vice versa)
princeedwardisland.ca/en/service/access-the-address-locator

Site Assessor App Interface



Layer Settings

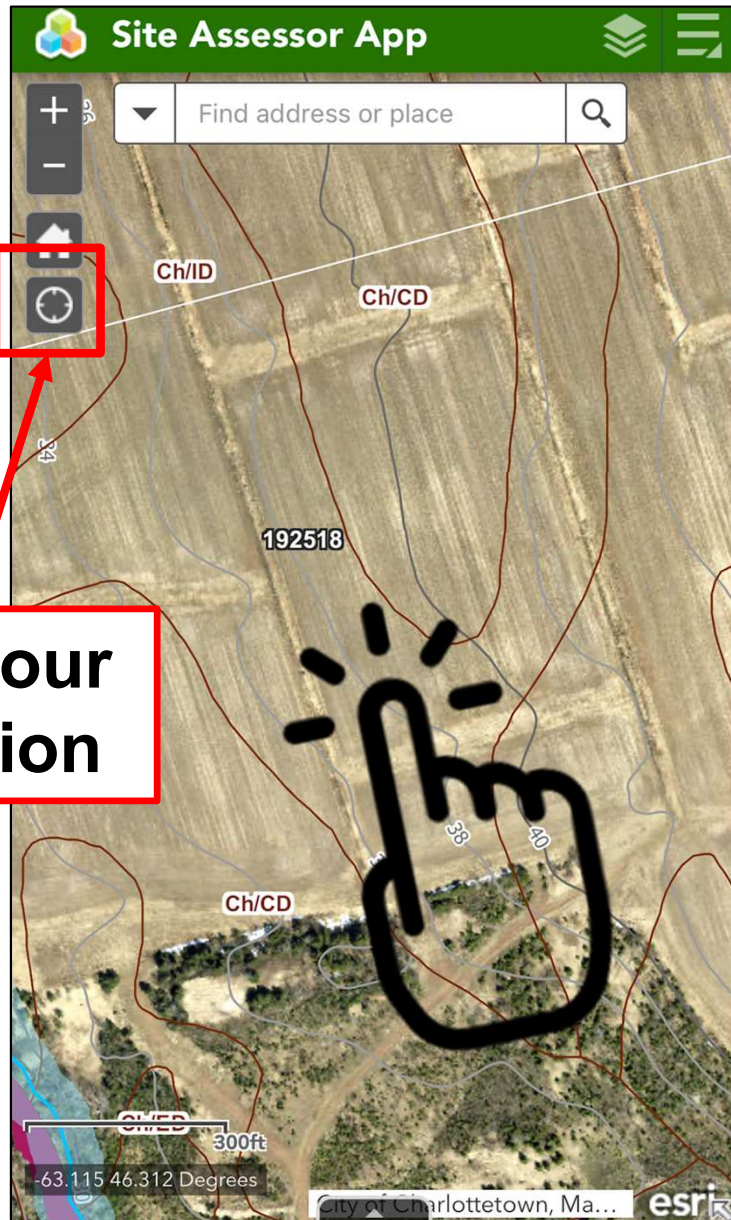


Basemaps

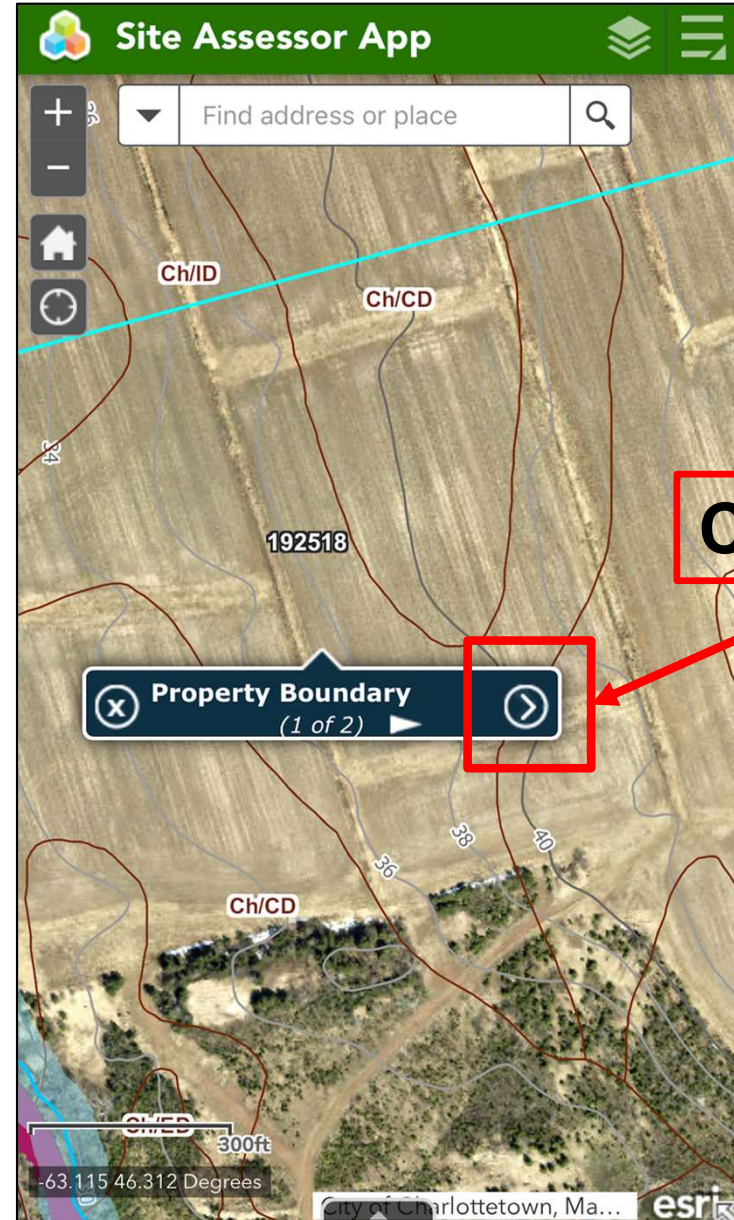
[Click here](#)



Using the app on a phone



**Get your
location**



Click here

Using the app on a phone

✕ (1 of 2) > ↓

Property Boundary

PID 192518

...

✕ (2 of 2) < ↓

Soil

MAPUNITNOM	Ch/ID
SOIL_CODE1	CTW
MODIFIER1	D
EXTENT1	100
SOIL_CODE2	
MODIFIER2	
EXTENT2	0
SOIL_CODE3	
MODIFIER3	
EXTENT3	0
SLOPEP1	10.0
STONE1	0
SOILCLASS	4
DRAININGROUP	Well_col
DRAINTYPE	Well
CLASS	W
UNIT	Ch
AREA (ha)	18.6
...	

Soil map unit

Drainage type

PEI Soil Survey, 1988

Map symbol coding on the detailed maps

Each delineation on the soil map is identified by letter symbol: two letters for the soil name and one letter for each phase described. Map units are listed in alphabetical order for ease of reference, except for the miscellaneous land types grouped at the end.

Example:

Soil series: Alberri

Al:AC/CC-Ch

Soil phase: Stony surface phase

Al A C — Soil phase: Consolidated bedrock

C C CH — Second series: Charlottetown

Dominant surface texture: Sandy loam

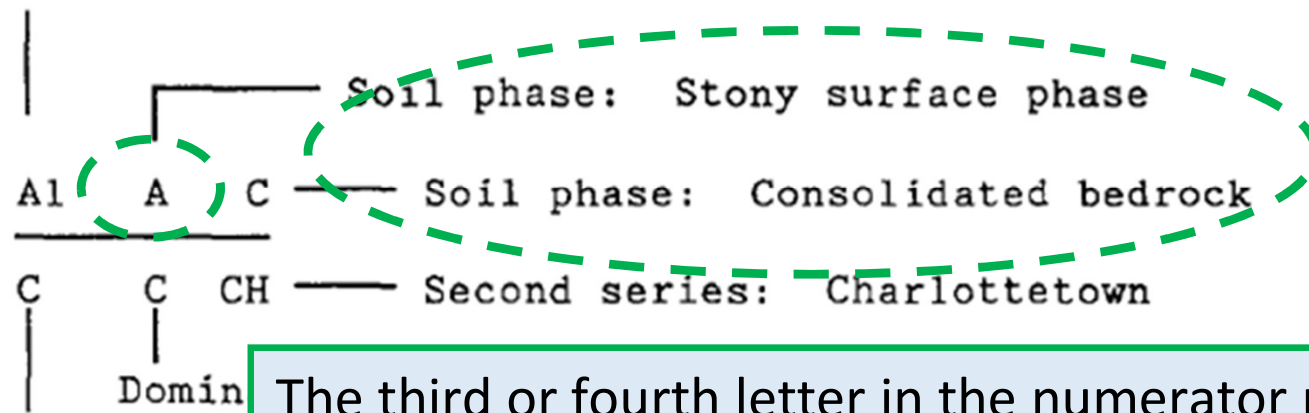
Slope phase: 2 to 5%

PEI Soil Survey

Example:

Soil series: Alberry

Al:**AC**/CC-Ch



The third or fourth letter in the numerator refers to **soil phase**:

- A- Stony surface phase
- B- Moderately well drained phase (Class 3 drainage)
- C- Consolidated bedrock phase (50 to 100 cm depth)
- D- *Unconsolidated bedrock phase (50 to 100 cm depth)
- E- Cobbly or stony subsoil phase
- F- Peaty surface phase

*Denoted in lowercase in text, tables, and map legend.

G- Ortstein phase

I- Coarse or moderately coarse texture (20 to 50 cm depth)

J- Medium to moderately fine texture (20 to 50 cm depth)

K- Complex, undifferentiated

PEI Soil Survey

Example:

Soil series: Alberry

Al:AC/**C**C-Ch

Soil phase: Stony surface phase

Al A C — Soil phase: Consolidated bedrock

C C CH — Second series: Charlottetown

Dominant surface texture: Sandy loam

Slope phase: 2 to 5%

The first letter in the denominator refers to the **slope phase** as follows:

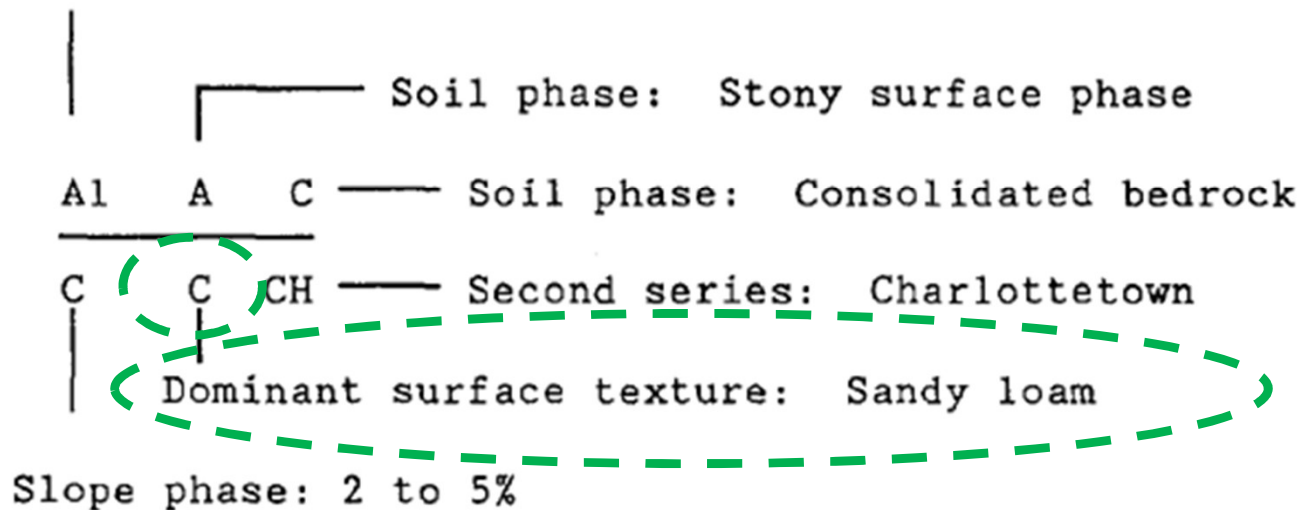
B- 0-2% slope	F- 15-30% slope
C- 2-5% slope	G- more than 30% slope
D- 5-9% slope	I- 5-15% slope (DE complex)
E- 9-15% slope	J- 9-30% slope (EF complex)

PEI Soil Survey

Example:

Soil series: Alberry

Al:AC/Cc-Ch



The second letter in the denominator refers to the **dominant surface texture** as follows:

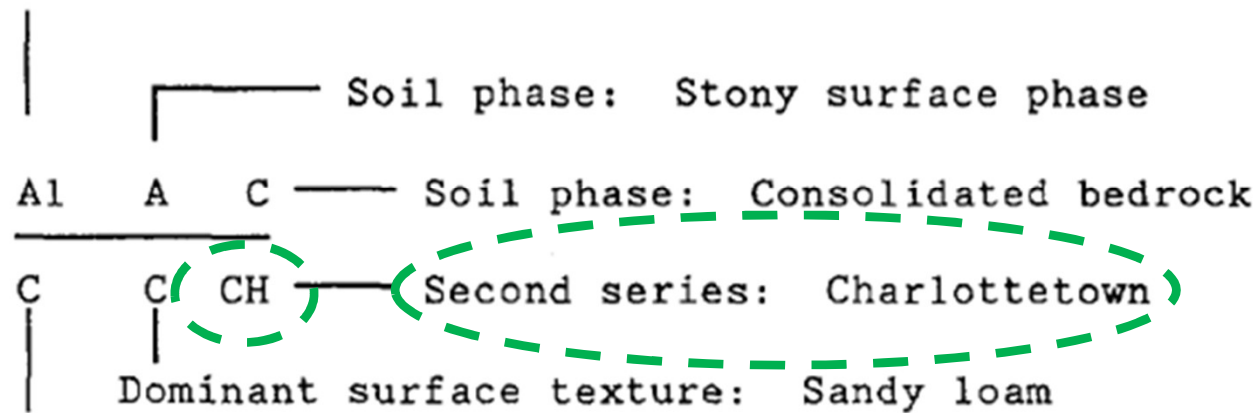
- A- Sand or coarser
- B- Loamy sand or gravelly loamy sand
- C- Sandy loam (<8% clay)
- D- Fine sandy loam or very fine sandy loam
- E- Loam or silt loam
- F- Sandy clay loam or clay loam

PEI Soil Survey

Example:

Soil series: Alberry

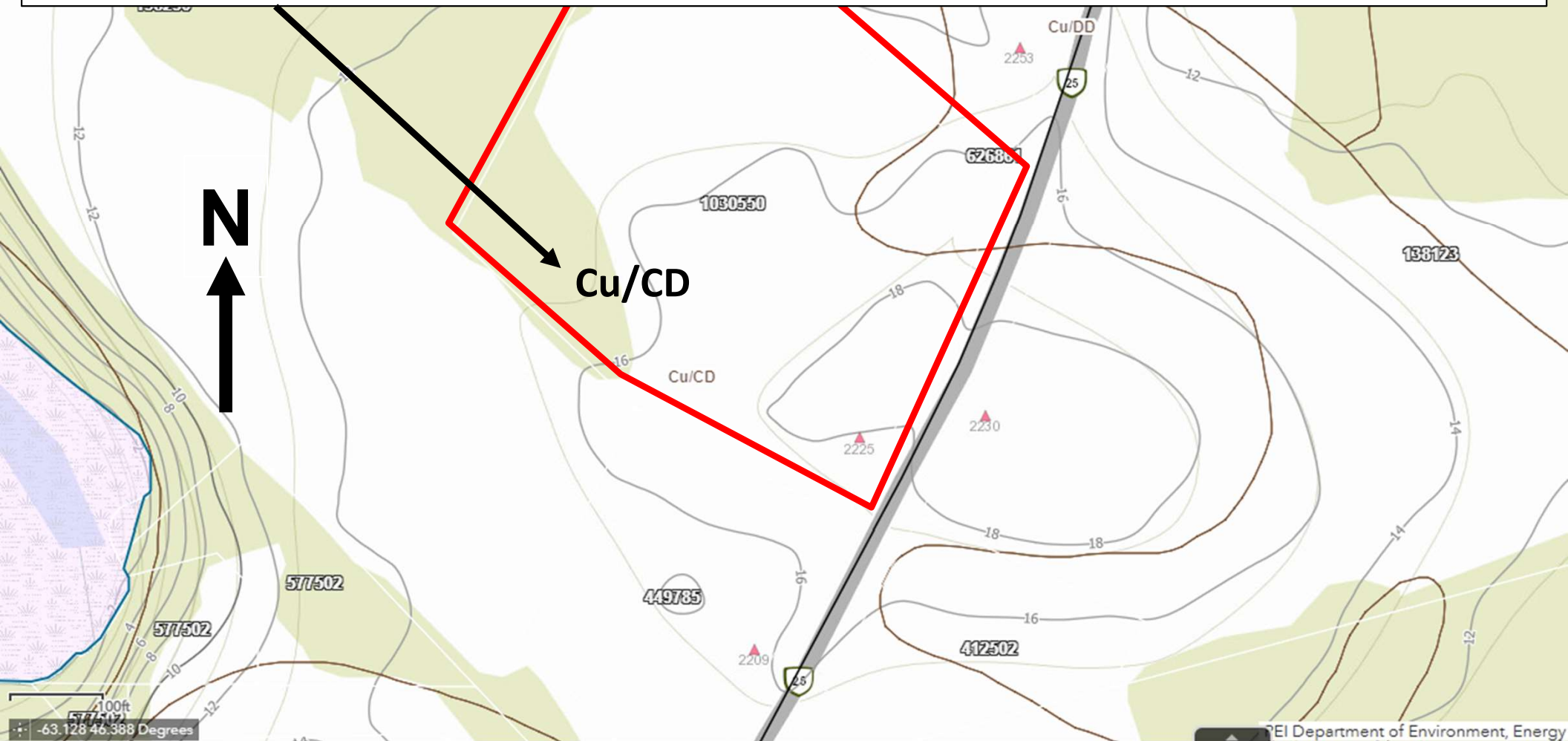
Al:AC/CC-Ch



Slope phase: 2 to 5%

If there is a third and fourth letter in the denominator, this refers to the secondary soil series.

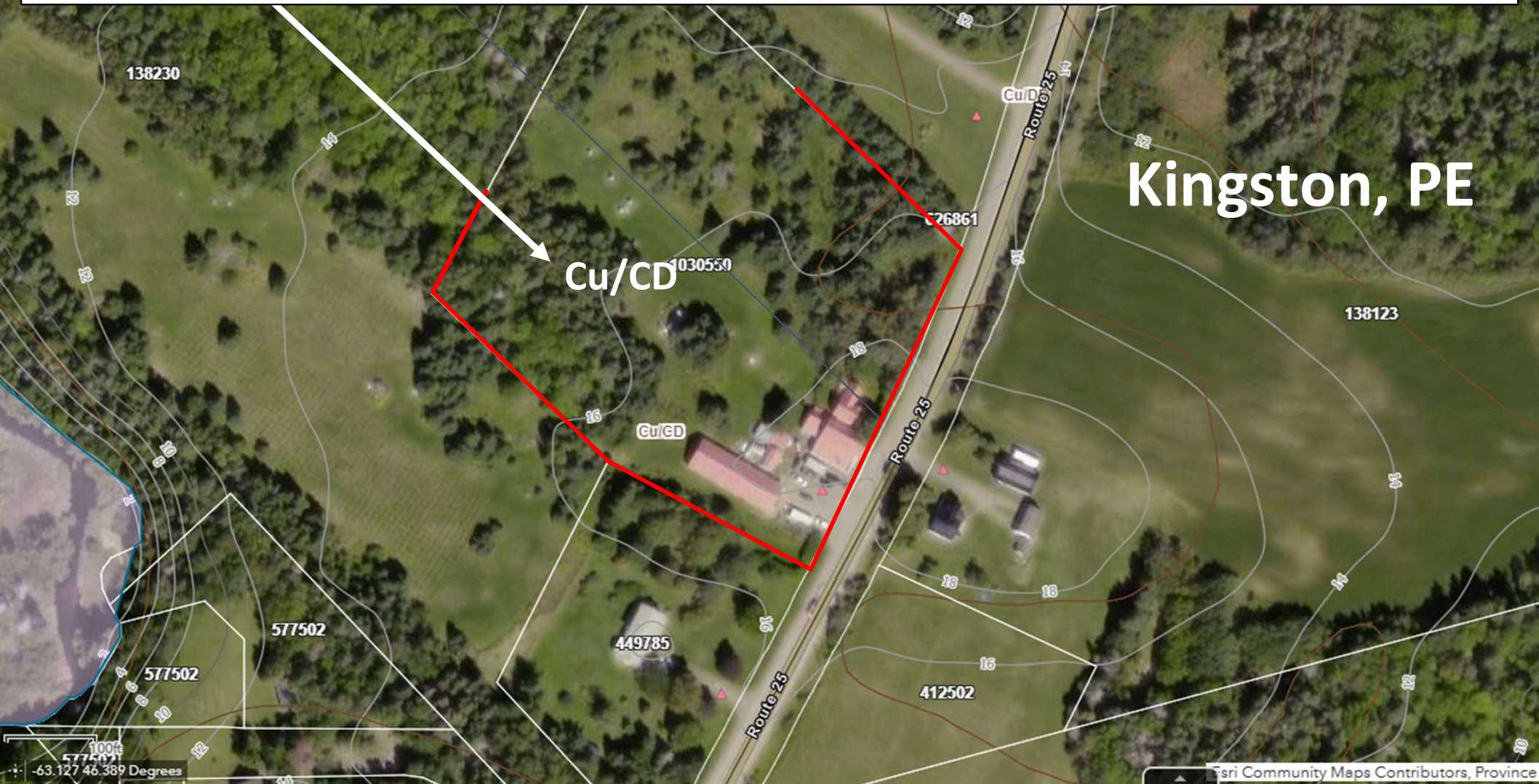
Cu/CD (Culloden) - well drained to rapidly drained. Glaciofluvial deposits (loose) but can be intermixed with Glacial till. Water moves rapidly through the profile (typically permeable). Typically loamy sand to sandy loam. **D** surface texture = fine to very fine sandy loam.



PID #1030550
Duncan Crawford

May 1, 2025

Cu/CD (Culloden) - well drained to rapidly drained. Glaciofluvial deposits (loose) but can be intermixed with Glacial till. Water moves rapidly through the profile (typically permeable). Typically loamy sand to sandy loam. **D** surface texture = fine to very fine sandy loam.





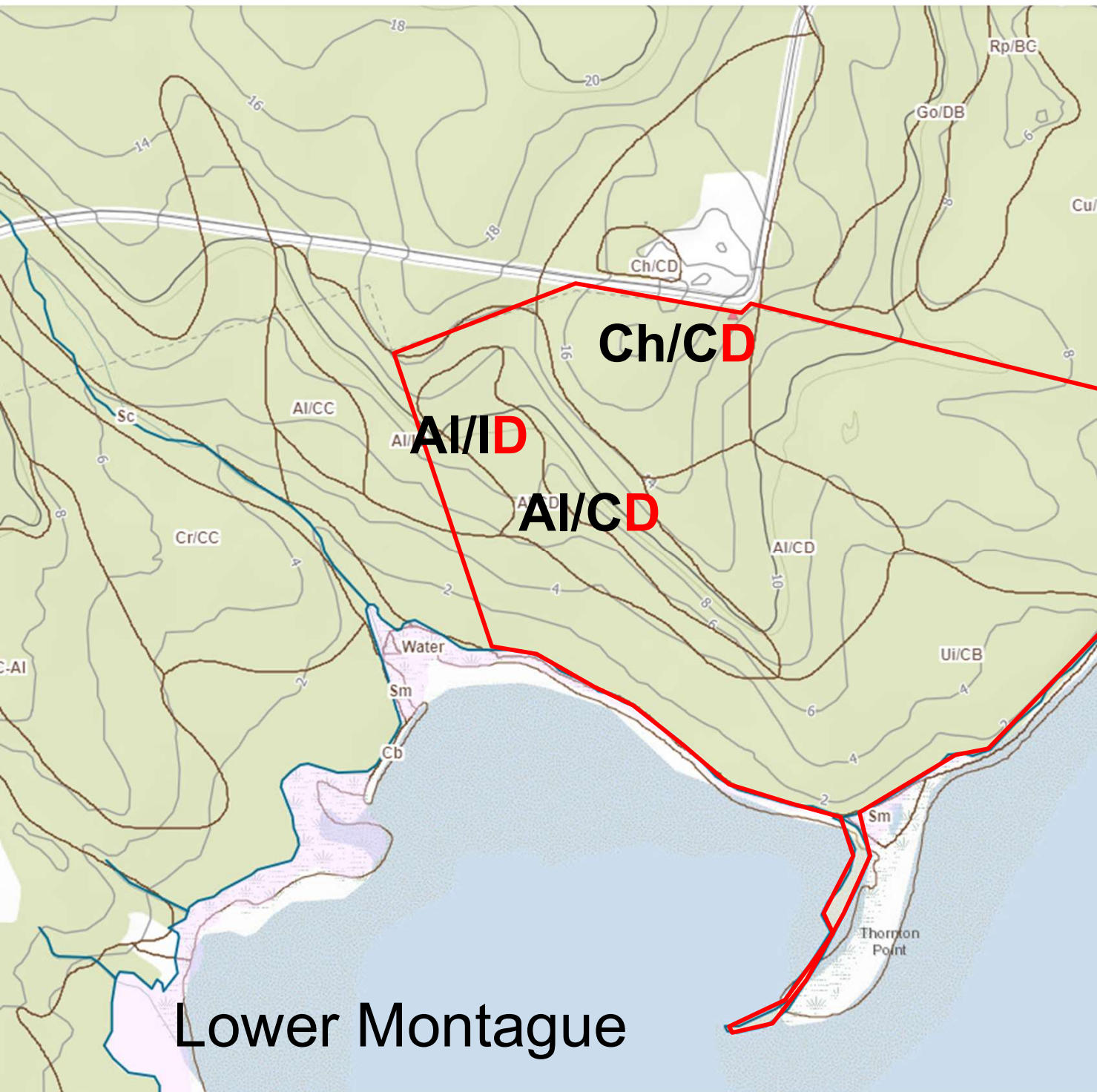
The map shows a coastal area with McInnis Point Rd and a stream. Soil profile locations are marked with red triangles and labeled: Fp:D/CE-OI (top right), Fp/DE (middle left), Wf/CE (middle right), and Eg/BE (bottom left). Contour lines are shown, and a blue area represents water. A label 'Sm' is in the top left, 'Cb+St' is near the stream, and 'McInnis Point' is at the bottom.

McInnis Point Earnscliffe

Fp (Fifteen Point) - Mod. well drained, very fine textured and stone free, typically Loam to Silt Loam. Very slow permeability.

Wf (Wolfe Inlet) - Imperfectly drained, Loam or silt loam or silty clay. Clay content in excess of 18%, glacial till, slow vertical permeability. Seasonal perched water table for prolonged periods. Faint mottles in A horizon. Very dense in lower B and C horizons.

Eg (Egmont) - Poorly to very poorly drained, surface horizons remain saturated for long periods. Distinct (in A) to faint (in B) mottles. Loam to clay loam. Parent material is dominantly silty clay.



Ch/CD Soil:
Charlottetown,
typically well-
drained and soil
texture being fine
sandy loam or very
fine sandy loam.

AI/CD Soil: Alberry, typically well-drained and soil texture being fine sandy loam or very fine sandy loam.

