

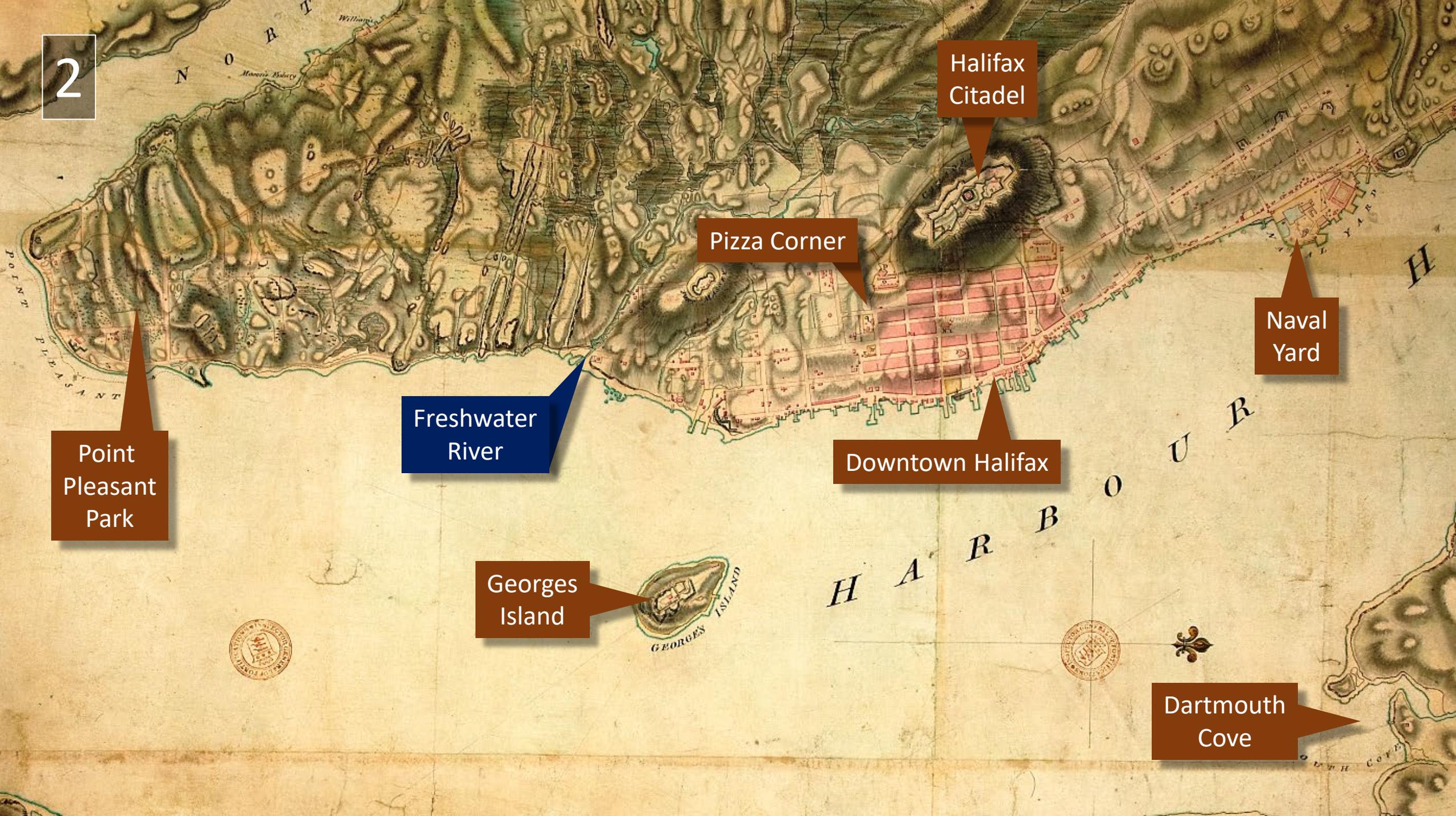
Mobilizing Universities to Solve Wicked Problems in HRM: Where Does the Water Go?

Dr. Linda Campbell & Dr. Jonathan Fowler, Saint Mary's University



NYC skyline. SOURCE: Lower Manhattan Coastal Resiliency Project, <https://www1.nyc.gov/site/lmcr/index.page>

2



Point Pleasant Park

Freshwater River

Pizza Corner

Halifax Citadel

Downtown Halifax

Naval Yard

Georges Island

Dartmouth Cove

3

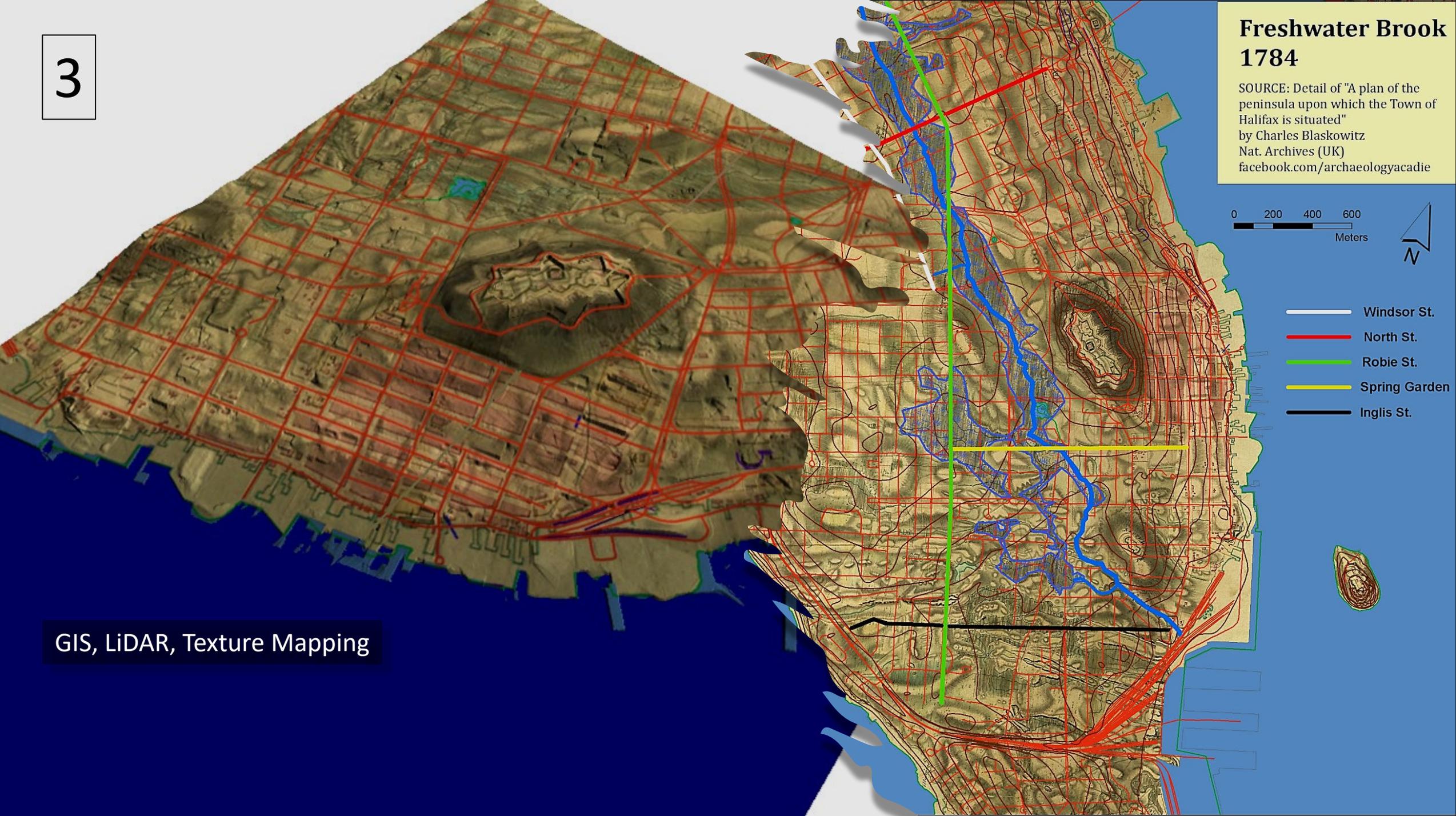
Freshwater Brook 1784

SOURCE: Detail of "A plan of the peninsula upon which the Town of Halifax is situated" by Charles Blaskowitz Nat. Archives (UK) facebook.com/archaeologyacadie



- Windsor St.
- North St.
- Robie St.
- Spring Garden
- Inglis St.

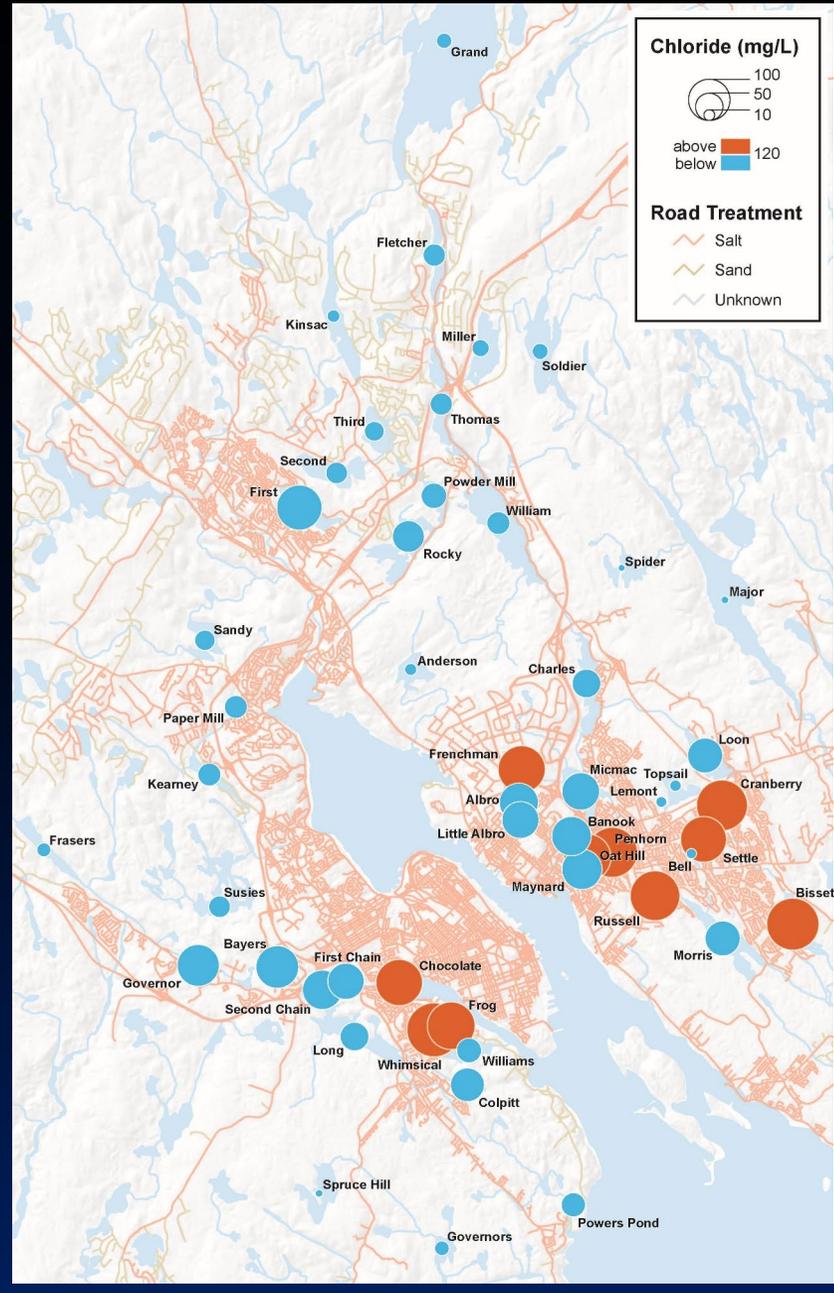
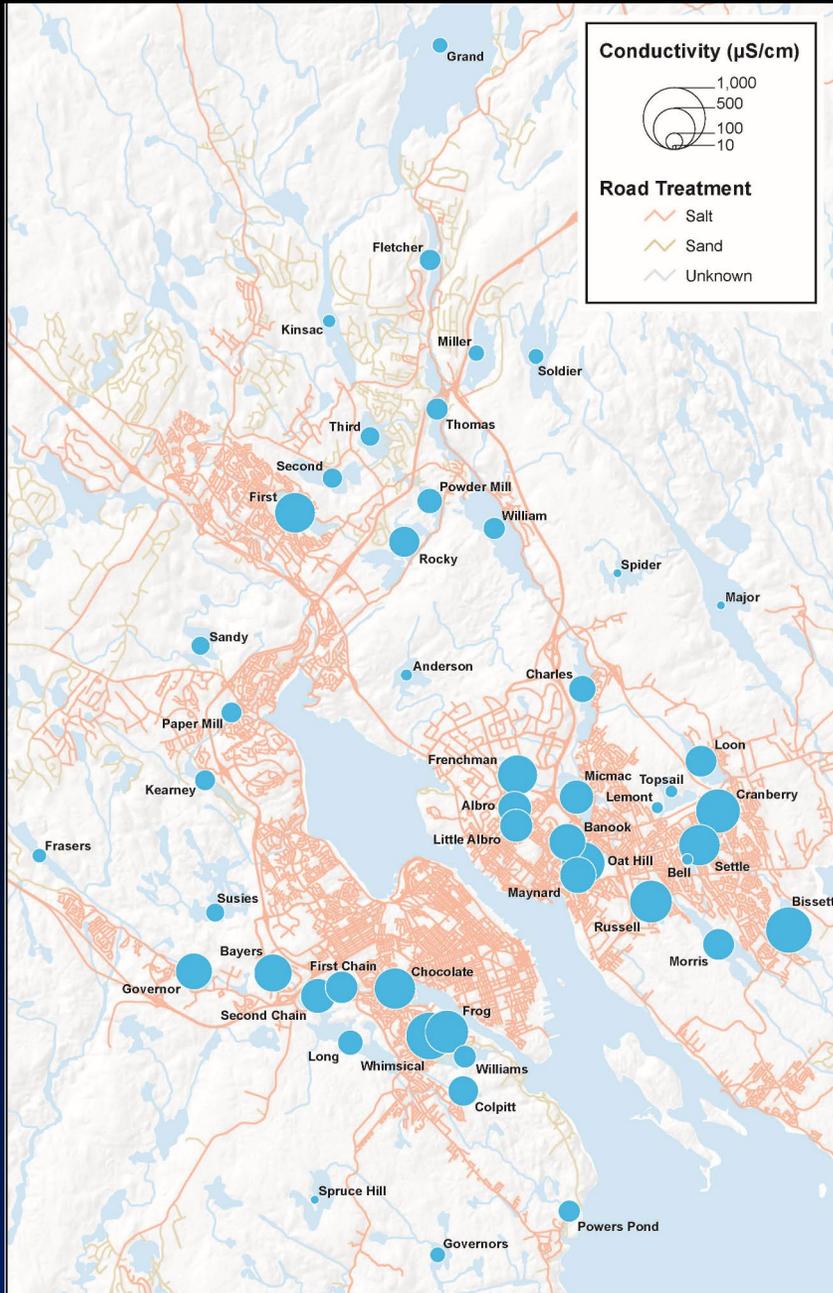
GIS, LiDAR, Texture Mapping



4 Why understanding historical water flows & water flow patterns is important?

- Case study: road salt and brine from HRM Winter Operations & private winter maintenance.
- SMU Biology honours thesis – Sahana Kanabar





Data from:

- 2000 Synoptic Survey of HRM lakes.
- HRM Winter Operations.
- NS TIR Highways

Maps by Greg Baker, SMU Geography

Results consistent with:

Scott et al. 2019. J. Env Mgmt.

Patriquin, 2015.

Shall we work together?

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One University. One World. Yours.