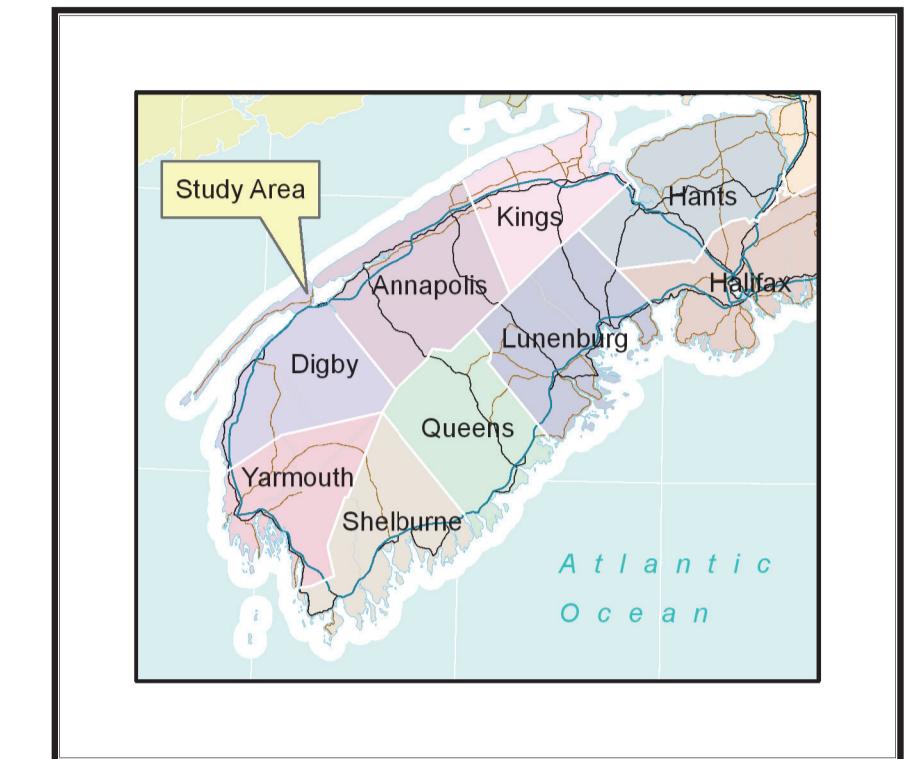
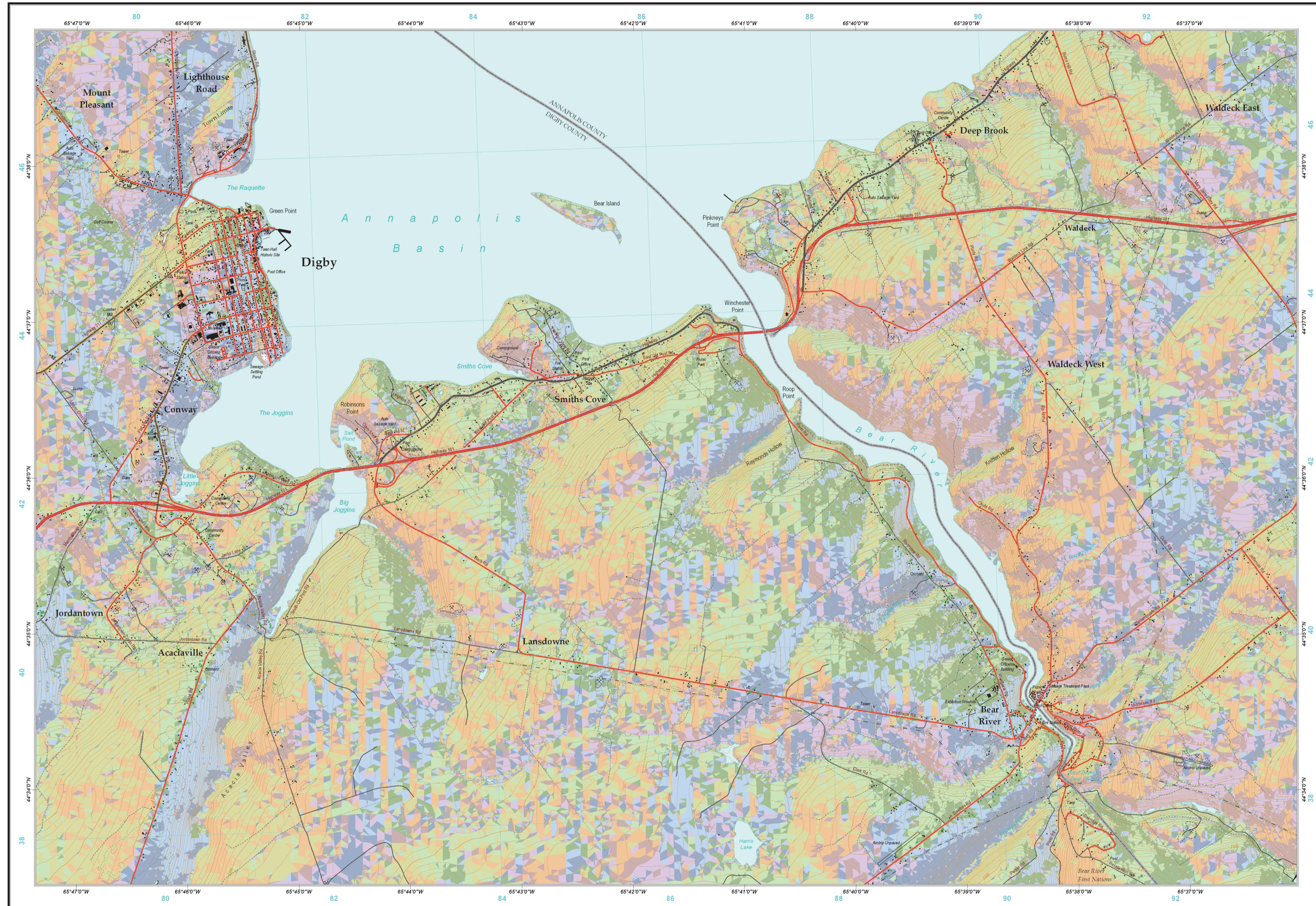


Edition 2018

NOVA SCOTIA RESOURCE SERIES

Aspect Layer



This map, created to visualize surface aspect data using a TIN (triangular area network) model, was developed with ArcGIS Pro 12.1.0, using a basemap of the Digby, Nova Scotia area we'd previously assembled from adjoining digital files obtained from the Nova Scotia Geomatics Centre. To create this map, a variety of geoprocessing operations were performed on the data, allowing it to be used as a thematic overlay for our prepared GIS basemap of the area. Our original basemap, which had been created using ArcGIS for Desktop 10.5, also had to be imported and adapted to the ArcGIS Pro environment.

Each polygon in the map to the left represents a facet of the land's surface morphology and has been colour coded to indicate cardinal and ordinal directions, allowing us to visually interpret slope direction in the terrain of our

To create these features, we first merged and clipped the relevant Nova Scotia Topographic Database datasets, then performed queries and manual edits on feature attributes and geometry to account for any inconsistencies or missing information. Some conversion between feature class geometry types was also required in order to preserve data integrity. After this preparation, we generated a TIN (triangular area network) using the elevation values present within our point, line, and digital elevation model data. Further geoprocessing operations were then performed on the TIN to generate triangle faces in polygon form. Finally, these features were symbolized by aspect category according to cartographic design principles and the final layout, intended for print, was created.

Buildings

- Building
- Church
- School

Point Features

- Lighthouse
- Orchard
- Sewage Settling Pond
- Swamp
- Tank
- Tower
- Tree Individual
- Windmill

Line Features

- Structure, Wall, Dam
- Bridge
- Cliff
- River, Stream, Coastline
- Contour
- Contour Approximate
- Conveyor
- County Boundary
- Tree Area, Line, Row or Orchard
- Depression Contour
- Index Contour
- Indian Reserve
- Military Reserve
- Municipal Boundary
- Pipeline Underground
- Power Transmission Line

Aspect

- No Slope
- North
- Northeast
- East
- Southeast
- South
- Southwest
- West
- Northwest
- North

Area Features

- Commercial Area
- Building or Structure
- Campground
- Cemetery
- Cut or Fill
- Dump
- Recreation Area
- Hydrography
- Gravel Pit
- Sewage Treatment Plant
- Swamp

Centre of Geographic Sciences
COGS | nscc

Base Source: Nova Scotia Topographic Database (NSTDB)
1:10000 Enhanced Topographic Data Base
Key Map Source: Nova Scotia Specialty Maps
1:500000 Custom Theme Layers
Compliments of the Nova Scotia Geomatics Centre (NSGC)
Service Nova Scotia and Municipal Relations
160 Willow Street
Amherst, N.S.

Source Map Sheets:
1044550065600
1044550065700
1044600065600
1044600065700
<http://www.nscc.gov.ns.ca/>
Data Locator V 3.5.2

Town of Digby
and
Surrounding Area

Digby and Annapolis Counties
Nova Scotia

Scale: 1:30,000
1000 500 0 1000 2000 3000
Metres

Projection: Universal Transverse Mercator, Zone 20 North
Datum: North American Datum 1983 (NAD83)
Correction: Canadian Spatial Reference System 1998 (CSRS98)

Magnetic North
January 2018
Calculated magnetic
declination: 16° 56' 13" W
Latitude: 44° 22' 13" N
Longitude: 65° 25' 15" W

This map is produced as a portion of the requirements of the
Geographic Sciences Program
at the Centre of Geographic Sciences, NSCC, Lawrencetown, Nova Scotia.
The product is unedited, unverified and intended
for educational purposes only.
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Produced by: Nicole White
Date: January 2018