



# Map 4-1 Generalized Ecological Land Classification Overview

## Legend

--- Nunavut Settlement Area boundary

— Region boundary

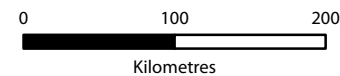
□ ELC Mapping extent

### Approximate northern extent of selected shrubs\*

— Glandular birch (*Betula glandulosa*)

— Alder species (*Alnus spp.*)

\*See the description in the text box on this map for further information.



Canada Lambert Conformal Conic WGS 84

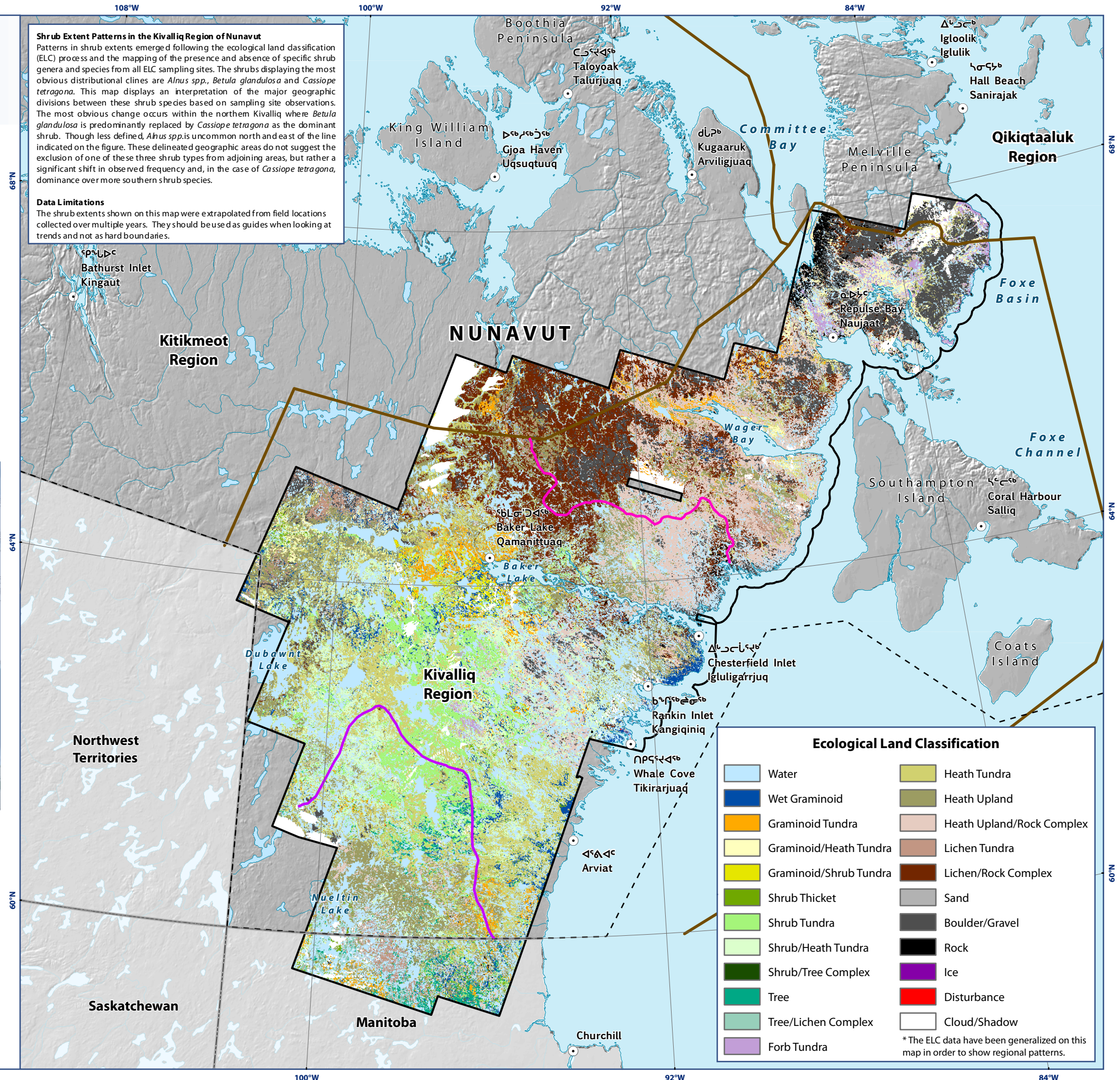
**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



**Shrub Extent Patterns in the Kivalliq Region of Nunavut**  
Patterns in shrub extents emerged following the ecological land classification (ELC) process and the mapping of the presence and absence of specific shrub genera and species from all ELC sampling sites. The shrubs displaying the most obvious distributional clines are *Alnus spp.*, *Betula glandulosa* and *Cassiope tetragona*. This map displays an interpretation of the major geographic divisions between these shrub species based on sampling site observations. The most obvious change occurs within the northern Kivalliq where *Betula glandulosa* is predominantly replaced by *Cassiope tetragona* as the dominant shrub. Though less defined, *Alnus spp.* is uncommon north and east of the line indicated on the figure. These delineated geographic areas do not suggest the exclusion of one of these three shrub types from adjoining areas, but rather a significant shift in observed frequency and, in the case of *Cassiope tetragona*, dominance over more southern shrub species.

**Data Limitations**  
The shrub extents shown on this map were extrapolated from field locations collected over multiple years. They should be used as guides when looking at trends and not as hard boundaries.



Ecological Land Classification	
	Water
	Wet Graminoid
	Graminoid Tundra
	Graminoid/Heath Tundra
	Graminoid/Shrub Tundra
	Shrub Thicket
	Shrub Tundra
	Shrub/Heath Tundra
	Shrub/Tree Complex
	Tree
	Tree/Lichen Complex
	Forb Tundra
	Heath Tundra
	Heath Upland
	Heath Upland/Rock Complex
	Lichen Tundra
	Lichen/Rock Complex
	Sand
	Boulder/Gravel
	Rock
	Ice
	Disturbance
	Cloud/Shadow

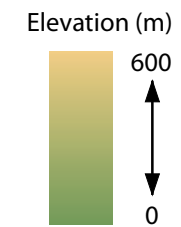
\*The ELC data have been generalized on this map in order to show regional patterns.



## Map 4-2 Ecological Land Classification Map Sheet Index

### Legend

- Nunavut Settlement Area boundary
- Region boundary
- NTS 1:250,000 scale grid\*
- 1/4 sheet, pg. #



\*Each NTS sheet is divided into quarters: northwest, northeast, southwest, and southeast.



Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)  
Government of Northwest Territories

Prepared by:



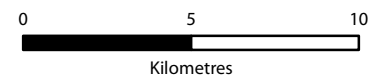
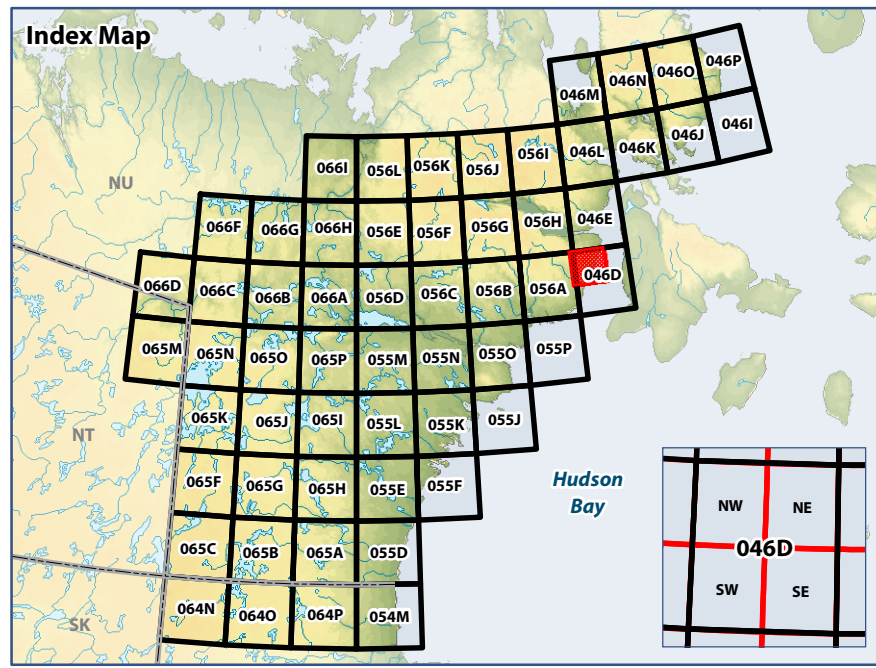
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Department of Environment  
Ministère de l'Environnement



# Map 046D NW Ecological Land Classification

## Legend

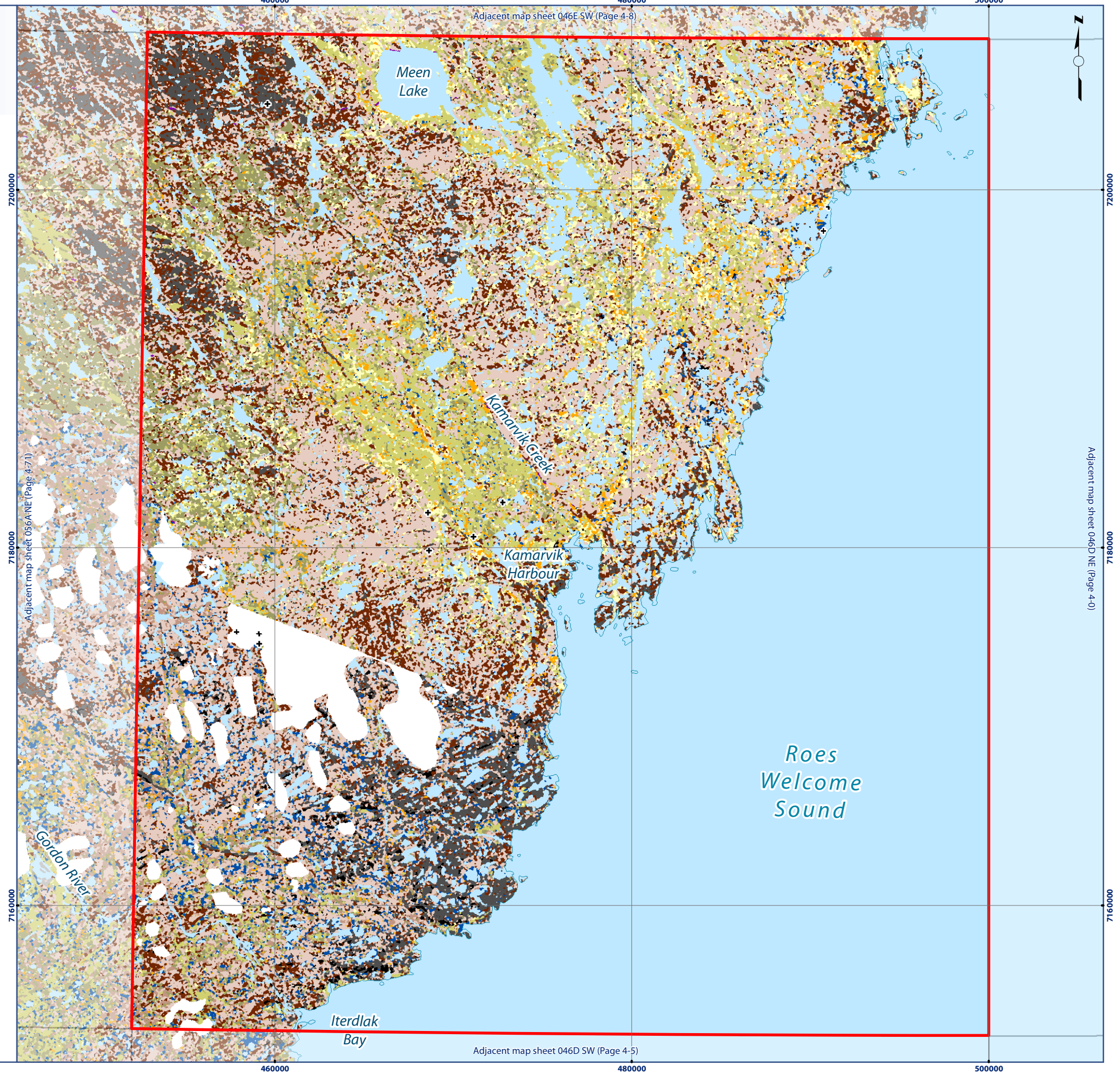
- + ELC Sample Sites
- Water
- Wet Graminoid
- Graminoid Tundra
- Graminoid/Heath Tundra
- Heath Tundra
- Heath Upland
- Heath Upland/Rock Complex
- Lichen Tundra
- Lichen/Rock Complex
- Sand
- Boulder/Gravel
- Rock
- Ice
- Cloud/Shadow



WGS 1984 UTM Zone 16N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:

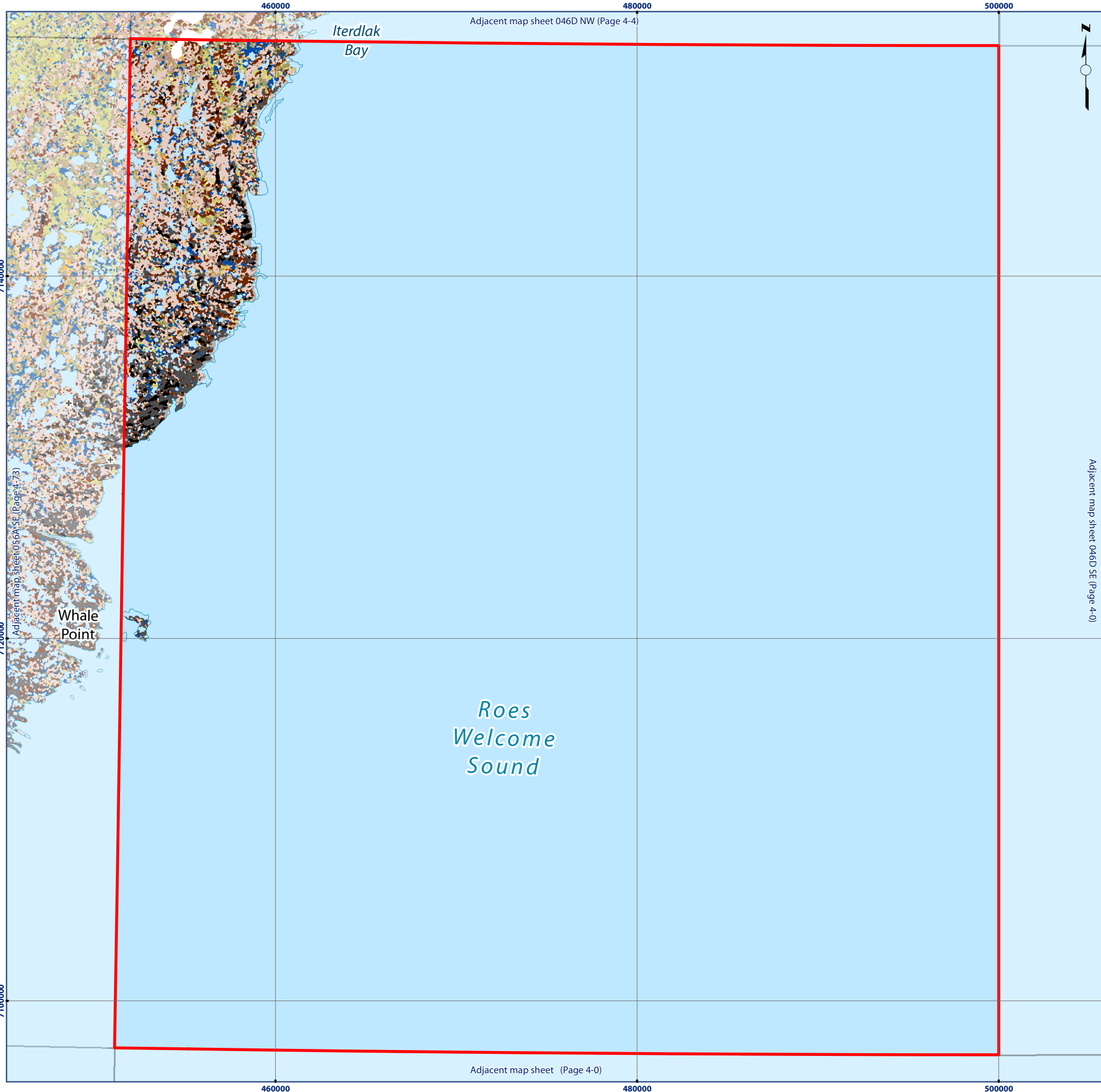


Adjacent map sheet 046E SW (Page 4-8)

Adjacent map sheet 056A NE (Page 4-7)

Adjacent map sheet 046D NE (Page 4-0)

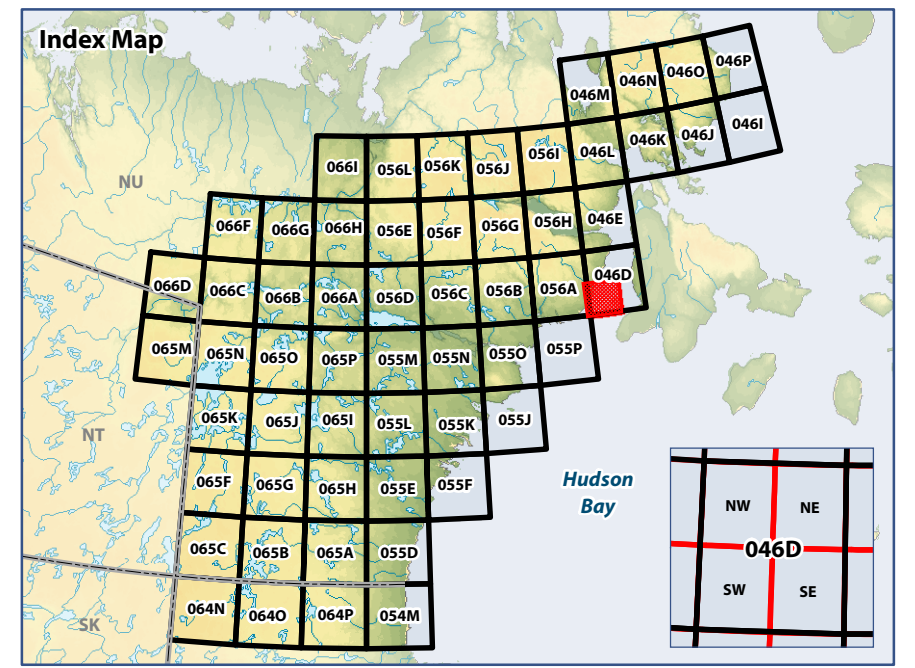
Adjacent map sheet 046D SW (Page 4-5)



# Map 046D SW Ecological Land Classification

## Legend

- |   |                        |  |                           |
|---|------------------------|--|---------------------------|
| + | ELC Sample Sites       |  | Heath Upland/Rock Complex |
|   | Water                  |  | Lichen Tundra             |
|   | Wet Graminoid          |  | Lichen/Rock Complex       |
|   | Graminoid Tundra       |  | Sand                      |
|   | Graminoid/Heath Tundra |  | Boulder/Gravel            |
|   | Heath Tundra           |  | Rock                      |
|   | Heath Upland           |  | Cloud/Shadow              |



0 5 10  
Kilometres

WGS 1984 UTM Zone 16N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

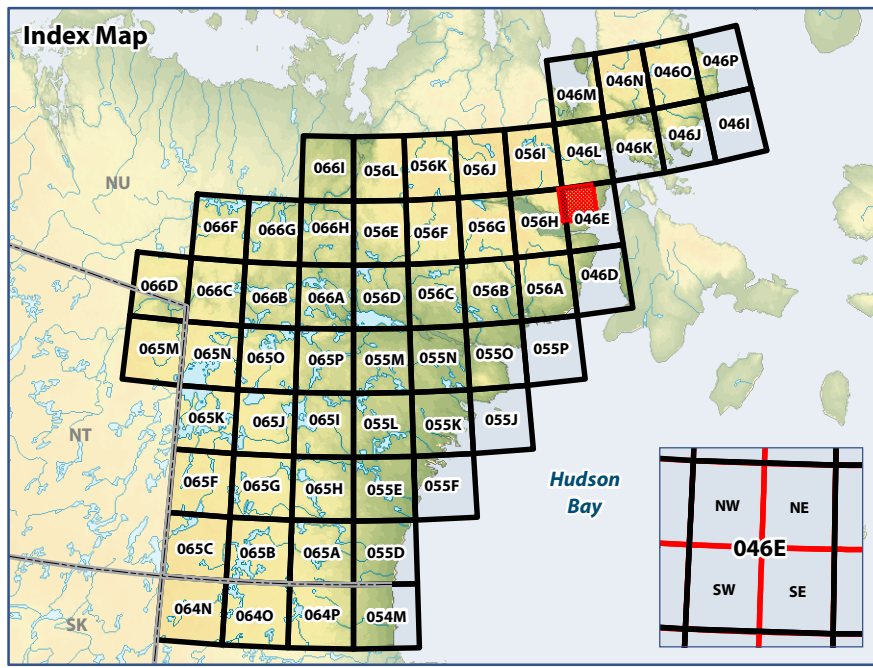
Prepared by:



# Map 046E NW Ecological Land Classification

## Legend

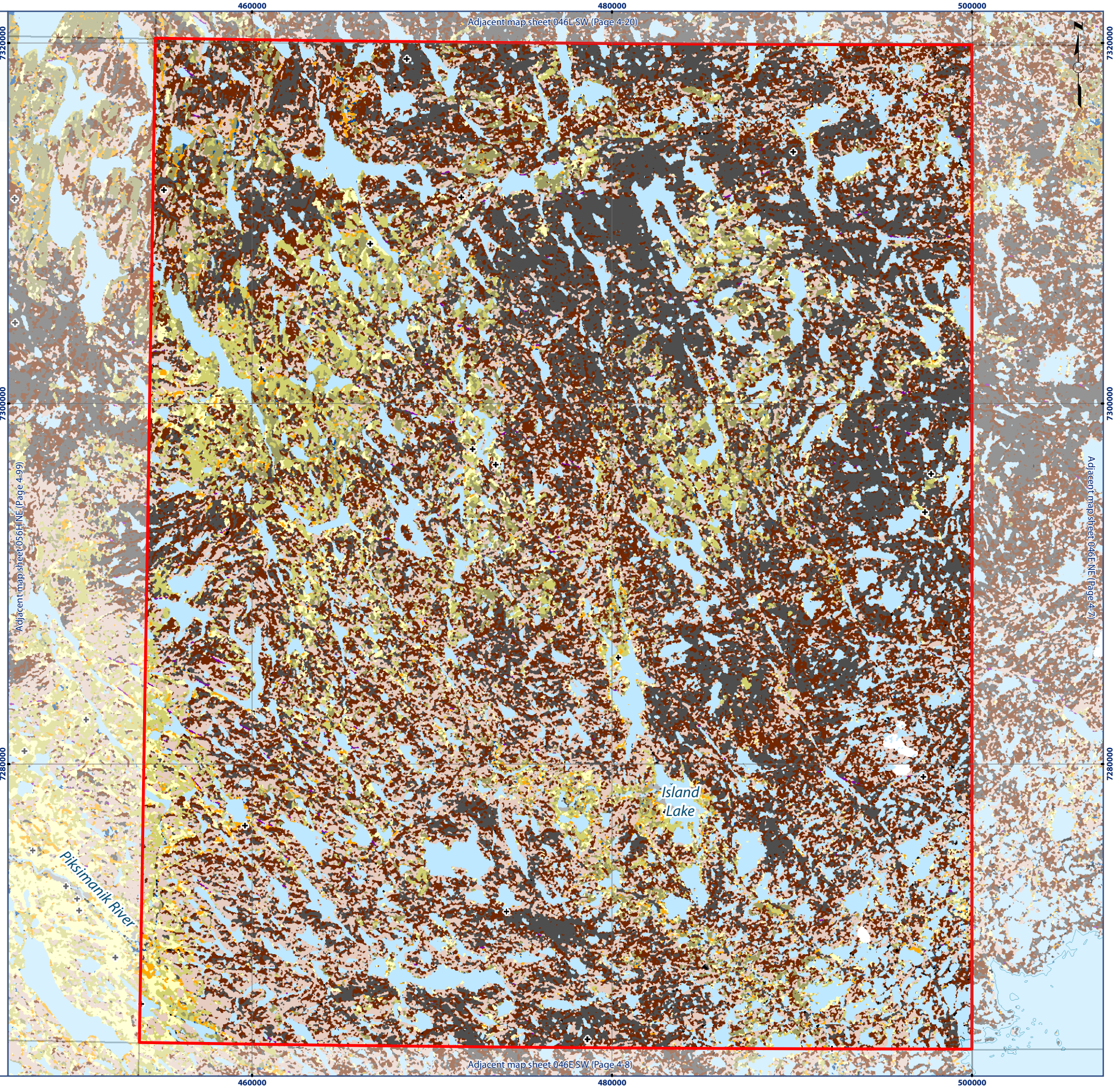
- + ELC Sample Sites
- Water
- Wet Graminoid
- Graminoid Tundra
- Graminoid/Heath Tundra
- Heath Tundra
- Heath Upland
- Heath Upland/Rock Complex
- Lichen/Rock Complex
- Sand
- Boulder/Gravel
- Rock
- Ice
- Cloud/Shadow

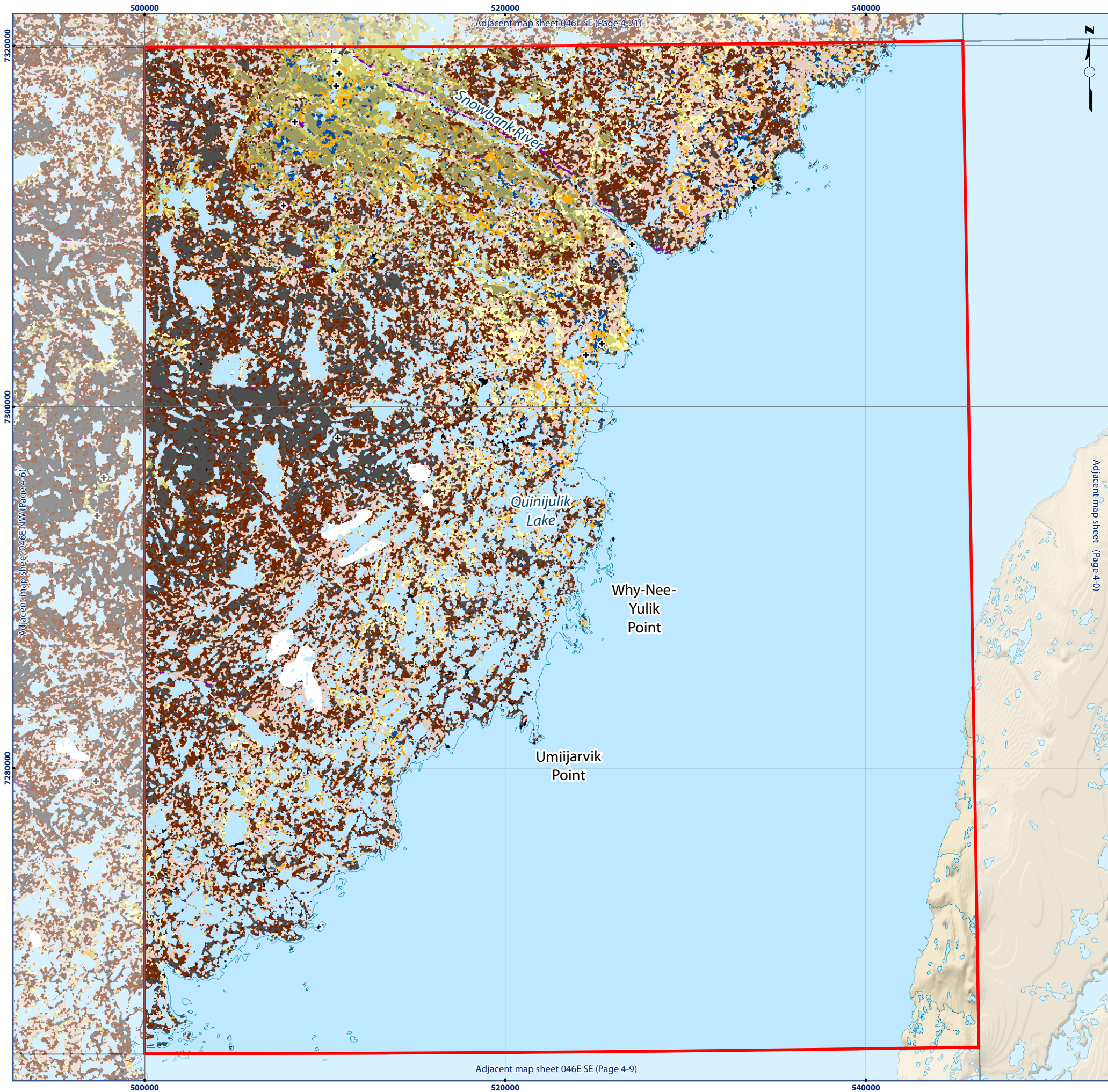


WGS 1984 UTM Zone 16N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:

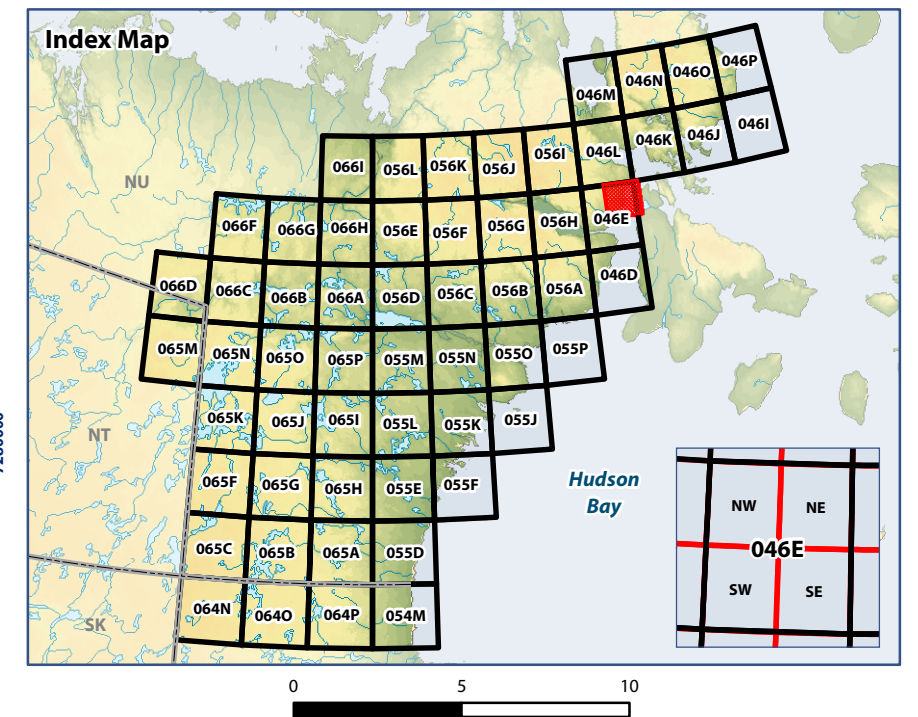




# Map 046E NE Ecological Land Classification

## Legend

- |   |                        |  |                           |
|---|------------------------|--|---------------------------|
| + | ELC Sample Sites       |  | Heath Upland/Rock Complex |
|   | Water                  |  | Lichen/Rock Complex       |
|   | Wet Graminoid          |  | Sand                      |
|   | Graminoid Tundra       |  | Boulder/Gravel            |
|   | Graminoid/Heath Tundra |  | Rock                      |
|   | Heath Tundra           |  | Ice                       |
|   | Heath Upland           |  | Cloud/Shadow              |



**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



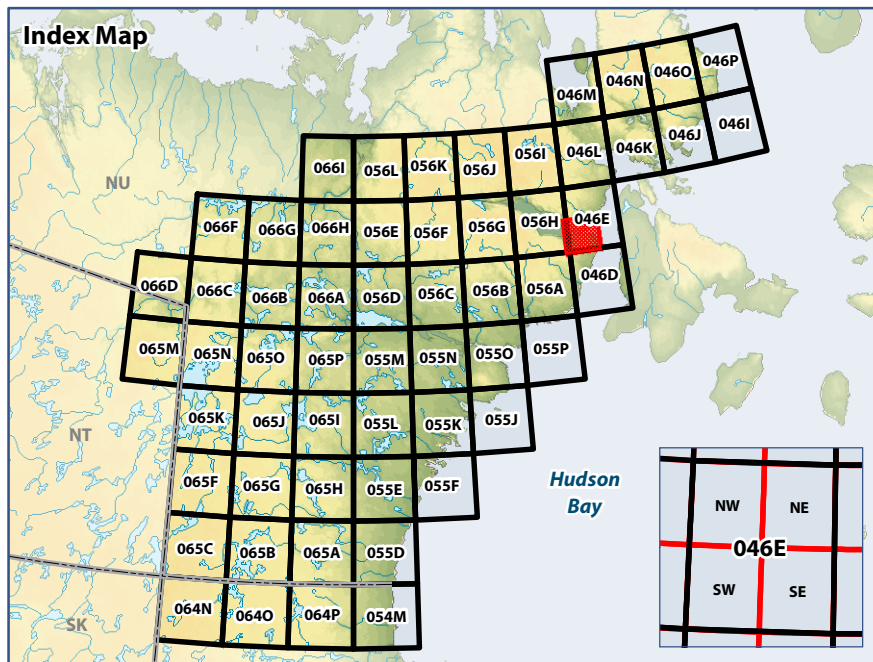
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Ministère de l'Environnement



# Map 046E SW Ecological Land Classification

## Legend

- |   |                        |  |                           |
|---|------------------------|--|---------------------------|
| + | ELC Sample Sites       |  | Heath Upland/Rock Complex |
|   | Water                  |  | Lichen/Rock Complex       |
|   | Wet Graminoid          |  | Sand                      |
|   | Graminoid Tundra       |  | Boulder/Gravel            |
|   | Graminoid/Heath Tundra |  | Rock                      |
|   | Heath Tundra           |  | Ice                       |
|   | Heath Upland           |  | Cloud/Shadow              |



WGS 1984 UTM Zone 16N

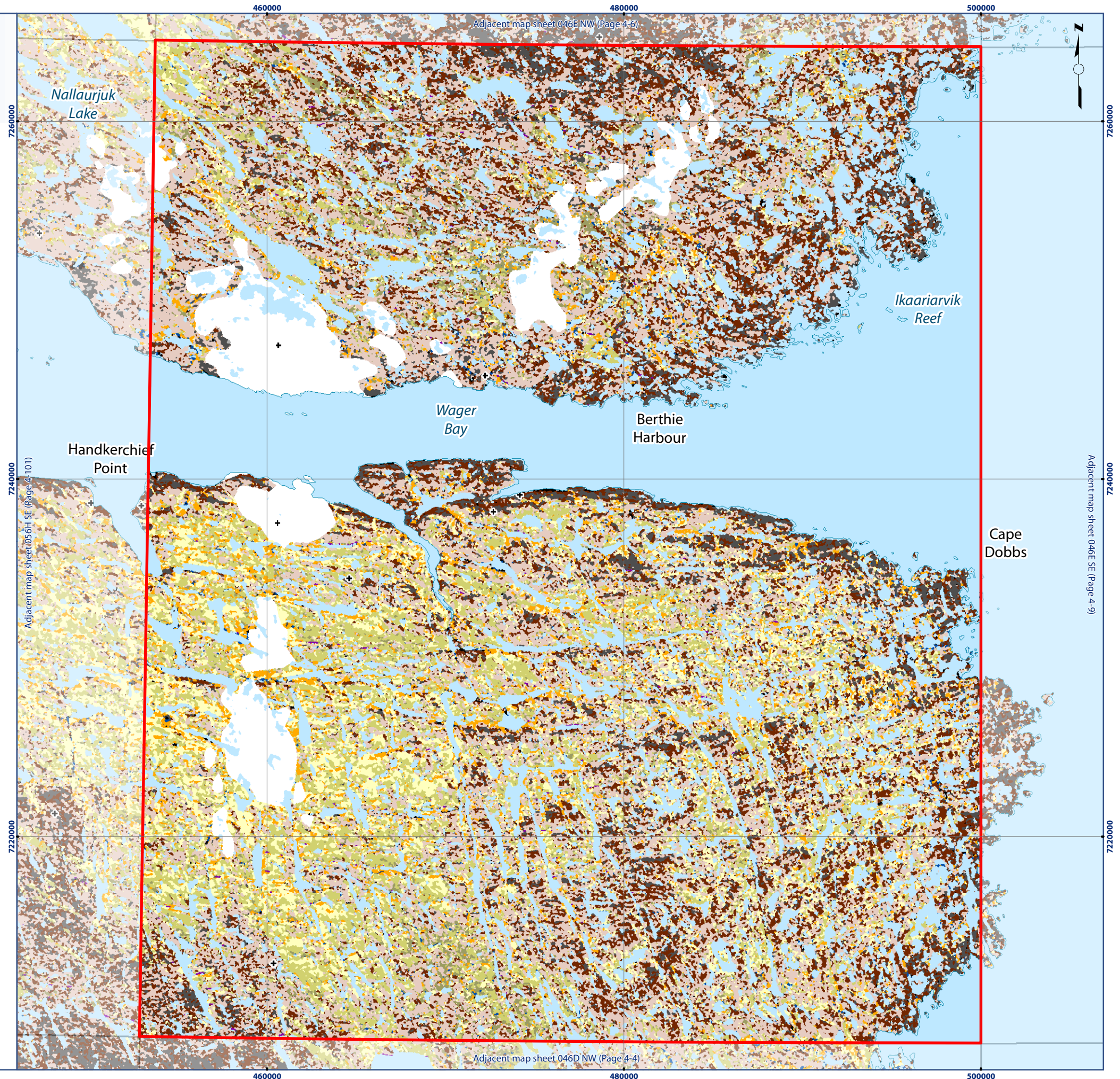
### Data Sources:

Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



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Avatiliqiyikkut  
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Ministère de l'Environnement



Adjacent map sheet 046E NW (Page 4-6)

Adjacent map sheet 056H SE (Page 4-10)

Adjacent map sheet 046E SE (Page 4-9)

Adjacent map sheet 046D NW (Page 4-4)



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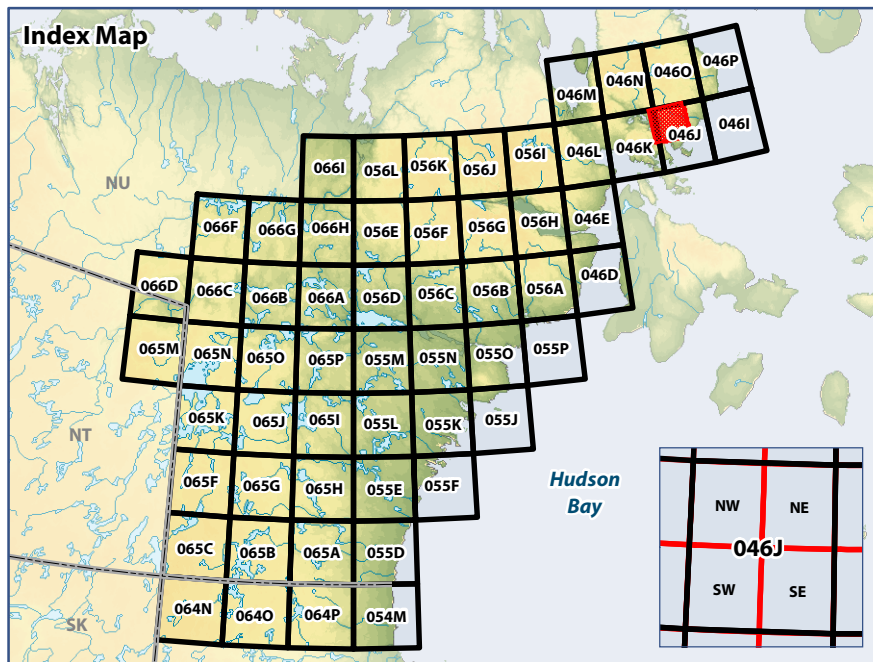




# Map 046J NW Ecological Land Classification

## Legend

- |   |                        |  |                           |
|---|------------------------|--|---------------------------|
| + | ELC Sample Sites       |  | Heath Upland              |
|   | Water                  |  | Heath Upland/Rock Complex |
|   | Wet Graminoid          |  | Lichen/Rock Complex       |
|   | Graminoid Tundra       |  | Sand                      |
|   | Graminoid/Heath Tundra |  | Boulder/Gravel            |
|   | Dryas Tundra           |  | Rock                      |
|   | Heath Tundra           |  | Ice                       |

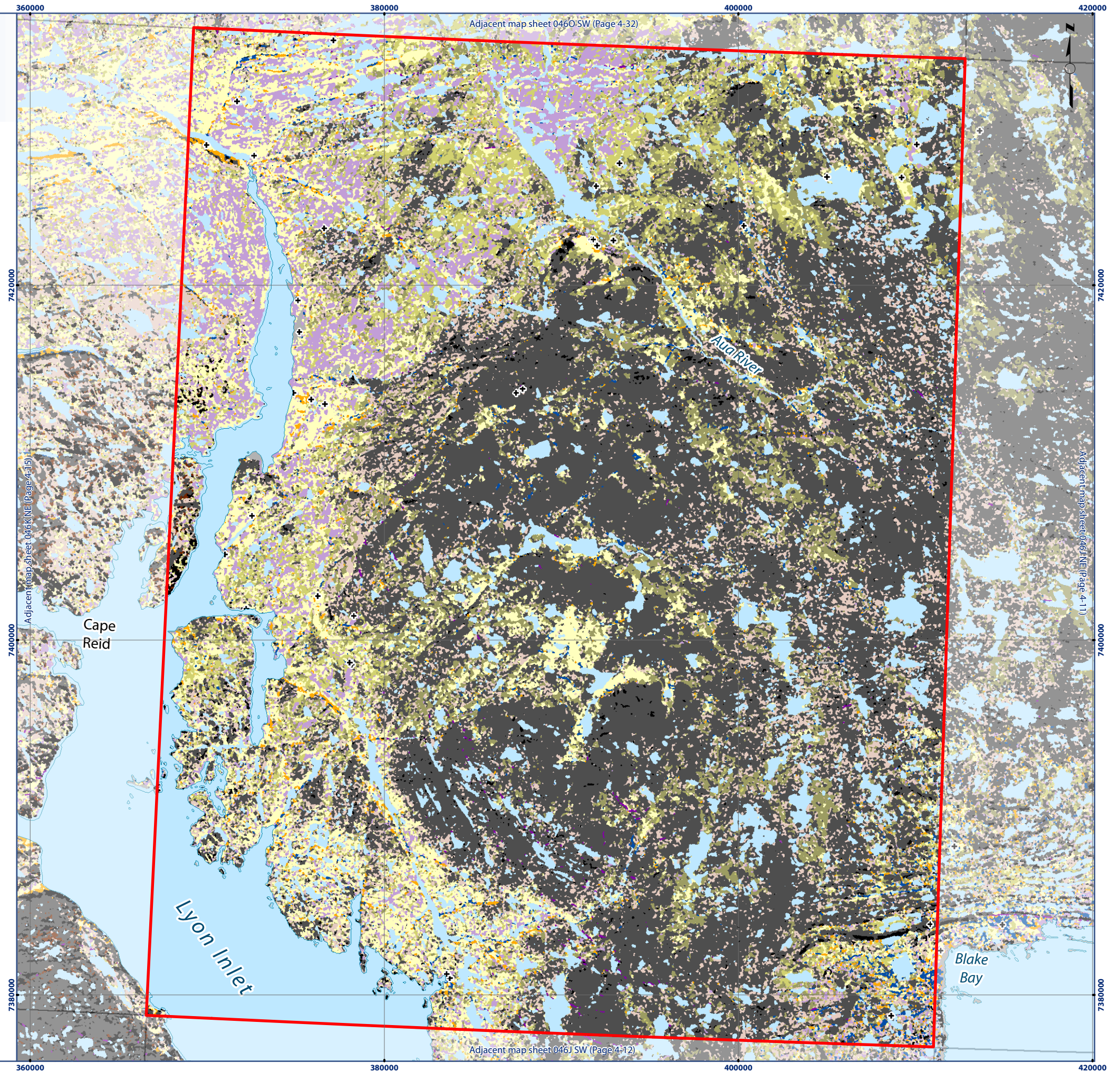


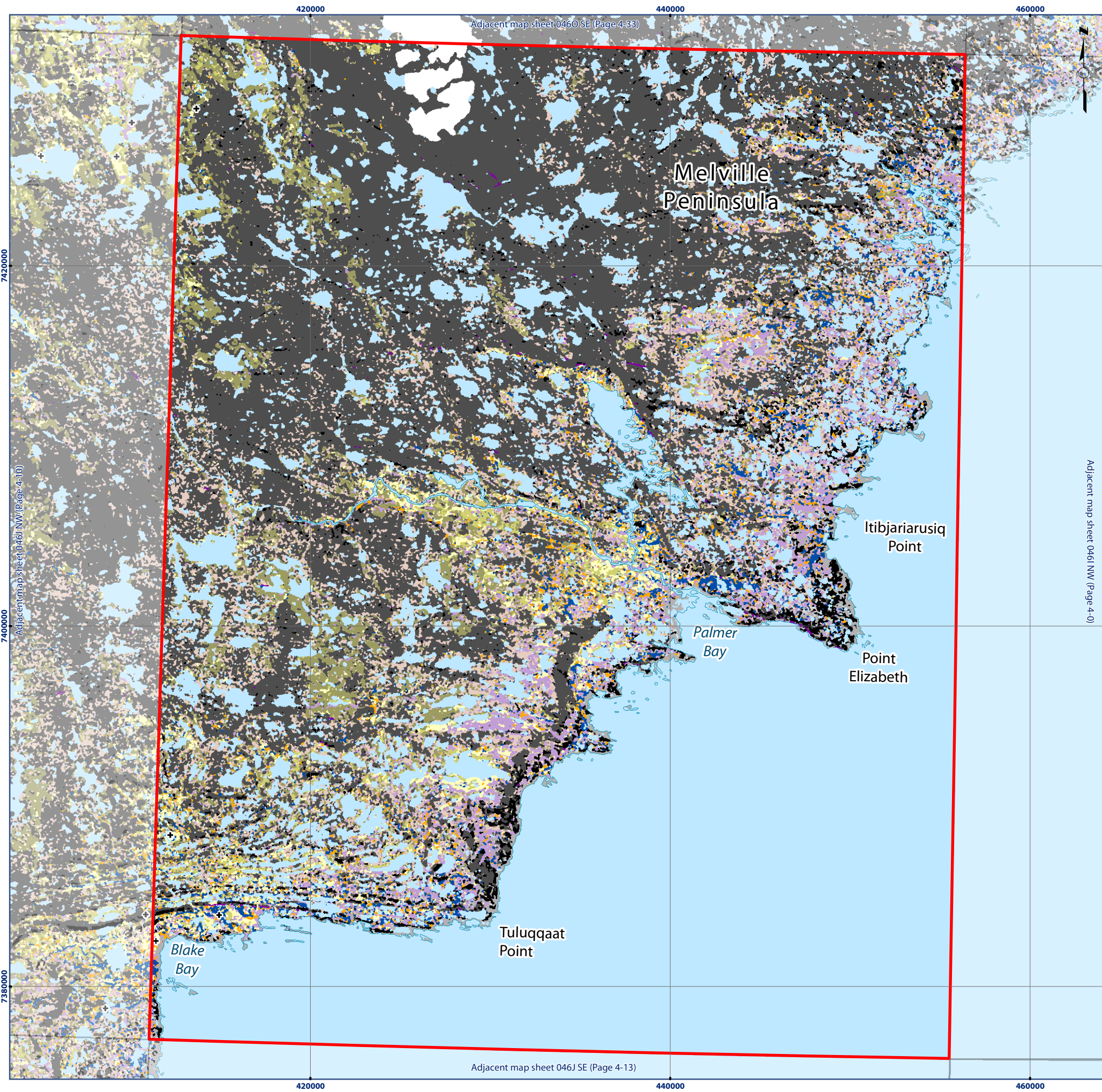
0 5 10  
Kilometres

WGS 1984 UTM Zone 17N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:

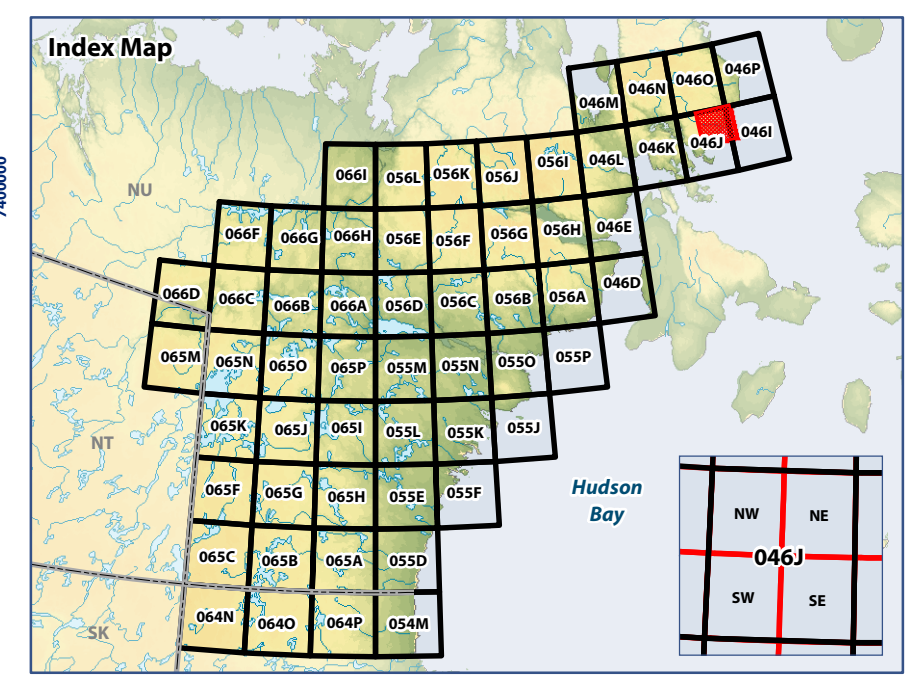




# Map 046J NE Ecological Land Classification

**Legend**

+	ELC Sample Sites		Heath Upland
	Water		Heath Upland/Rock Complex
	Wet Graminoid		Sand
	Graminoid Tundra		Boulder/Gravel
	Graminoid/Heath Tundra		Rock
	Dryas Tundra		Ice
	Heath Tundra		Cloud/Shadow



0 5 10  
Kilometres  
WGS 1984 UTM Zone 17N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



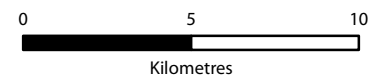
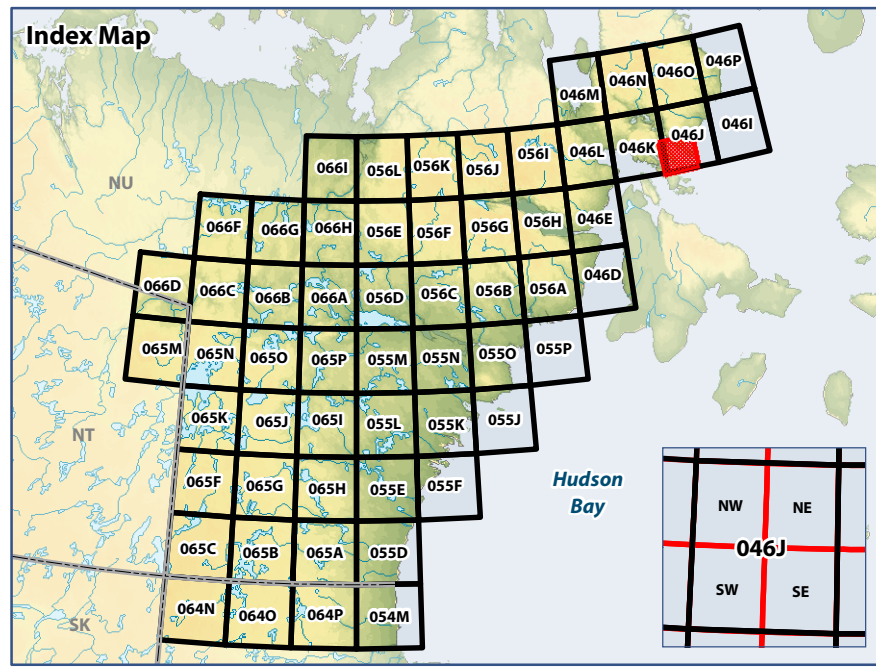
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# Map 046J SW Ecological Land Classification

## Legend

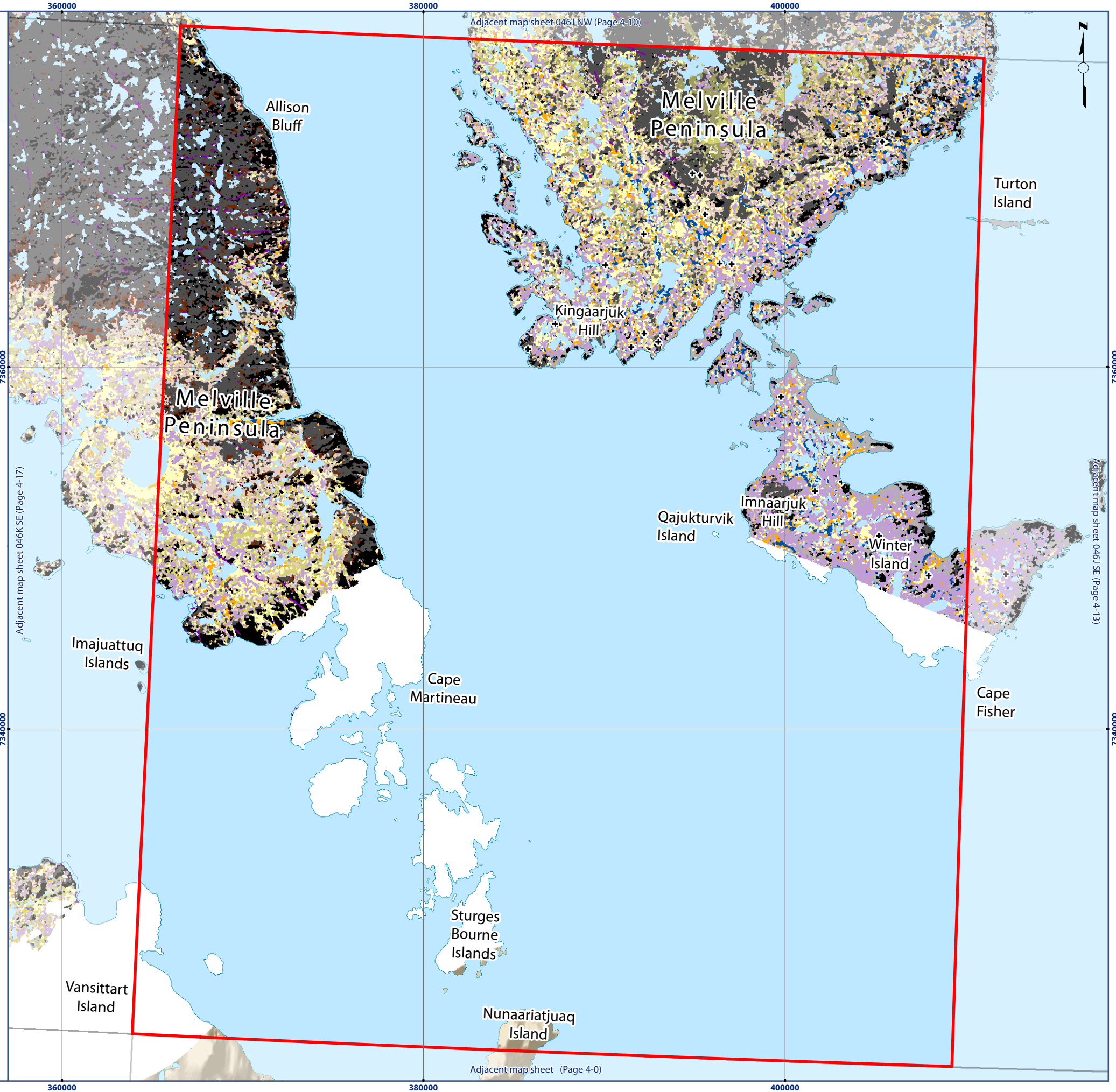
- + ELC Sample Sites
- Water
- Wet Graminoid
- Graminoid Tundra
- Graminoid/Heath Tundra
- Dryas Tundra
- Heath Tundra
- Heath Upland
- Heath Upland/Rock Complex
- Lichen/Rock Complex
- Sand
- Boulder/Gravel
- Rock
- Ice
- Cloud/Shadow

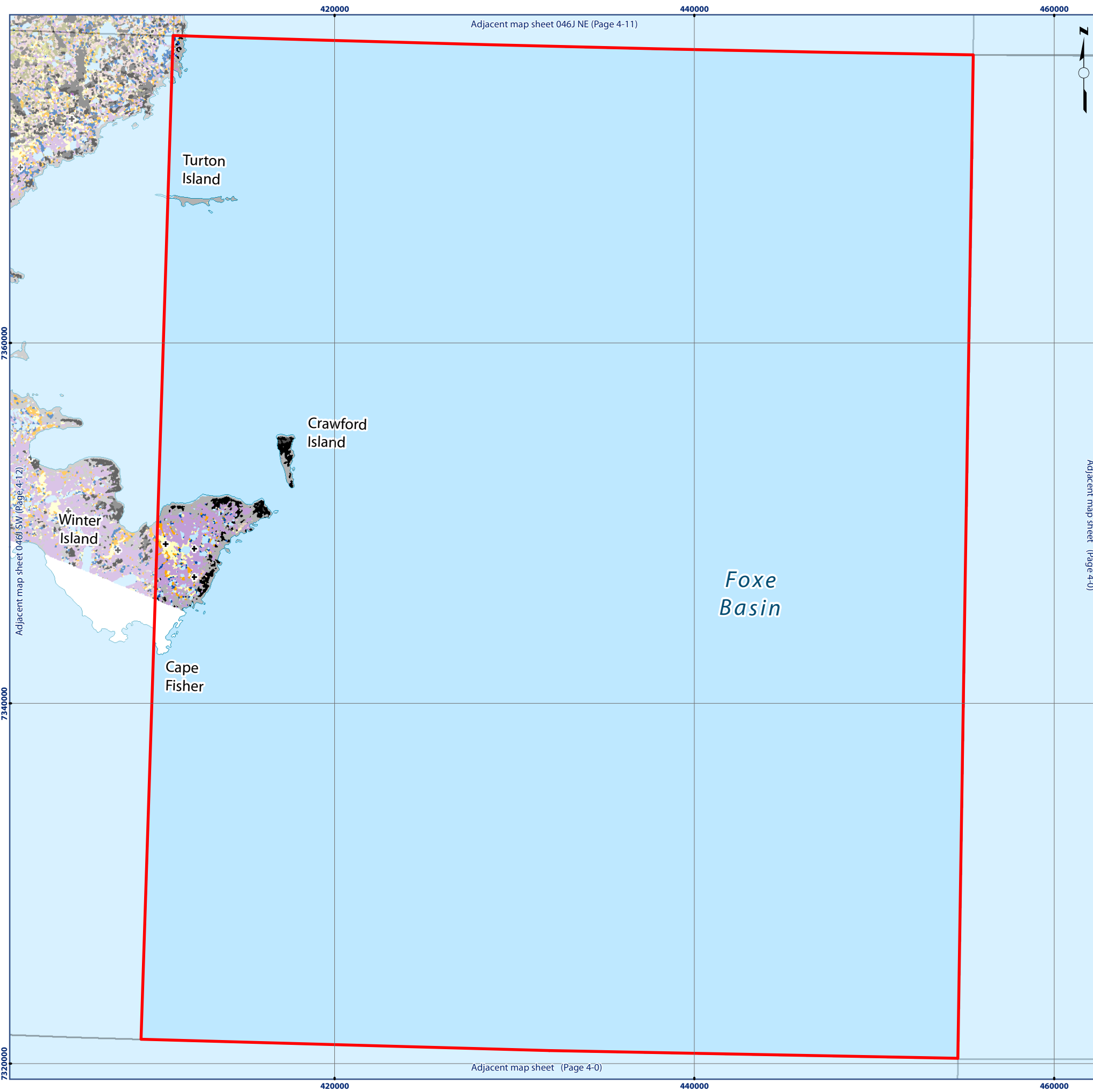


WGS 1984 UTM Zone 17N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:

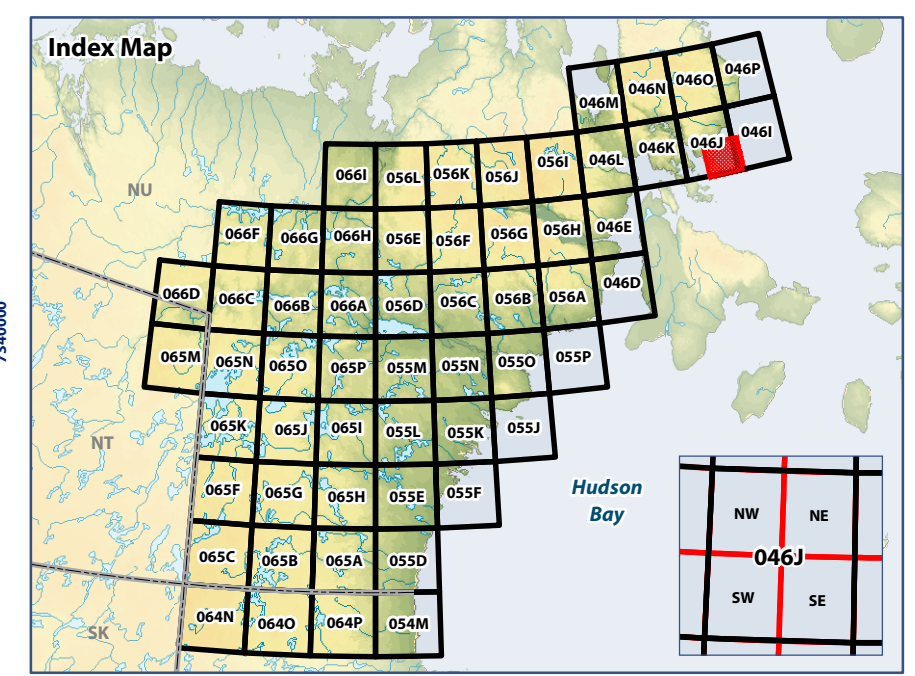




# Map 046J SE Ecological Land Classification

**Legend**

+	ELC Sample Sites		Heath Upland
	Water		Heath Upland/Rock Complex
	Wet Graminoid		Sand
	Graminoid Tundra		Boulder/Gravel
	Graminoid/Heath Tundra		Rock
	Dryas Tundra		Ice
	Heath Tundra		Cloud/Shadow



0 5 10  
Kilometres  
WGS 1984 UTM Zone 17N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

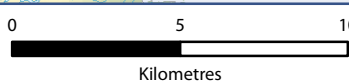
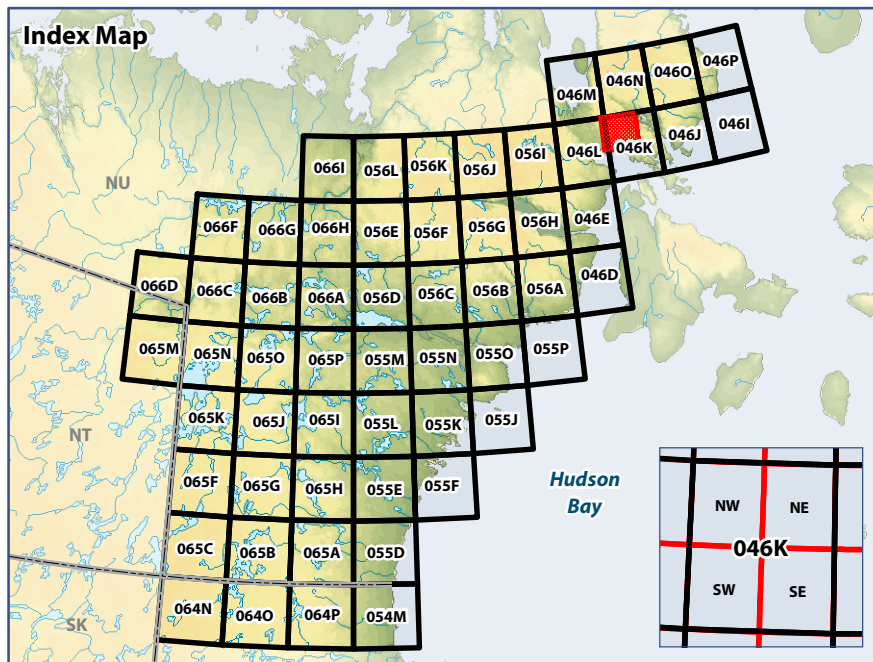
Prepared by:



# Map 046K NW Ecological Land Classification

## Legend

- + ELC Sample Sites
- Water
- Wet Graminoid
- Graminoid Tundra
- Graminoid/Heath Tundra
- Dryas Tundra
- Heath Tundra
- Heath Upland
- Heath Upland/Rock Complex
- Lichen/Rock Complex
- Sand
- Boulder/Gravel
- Rock
- Ice

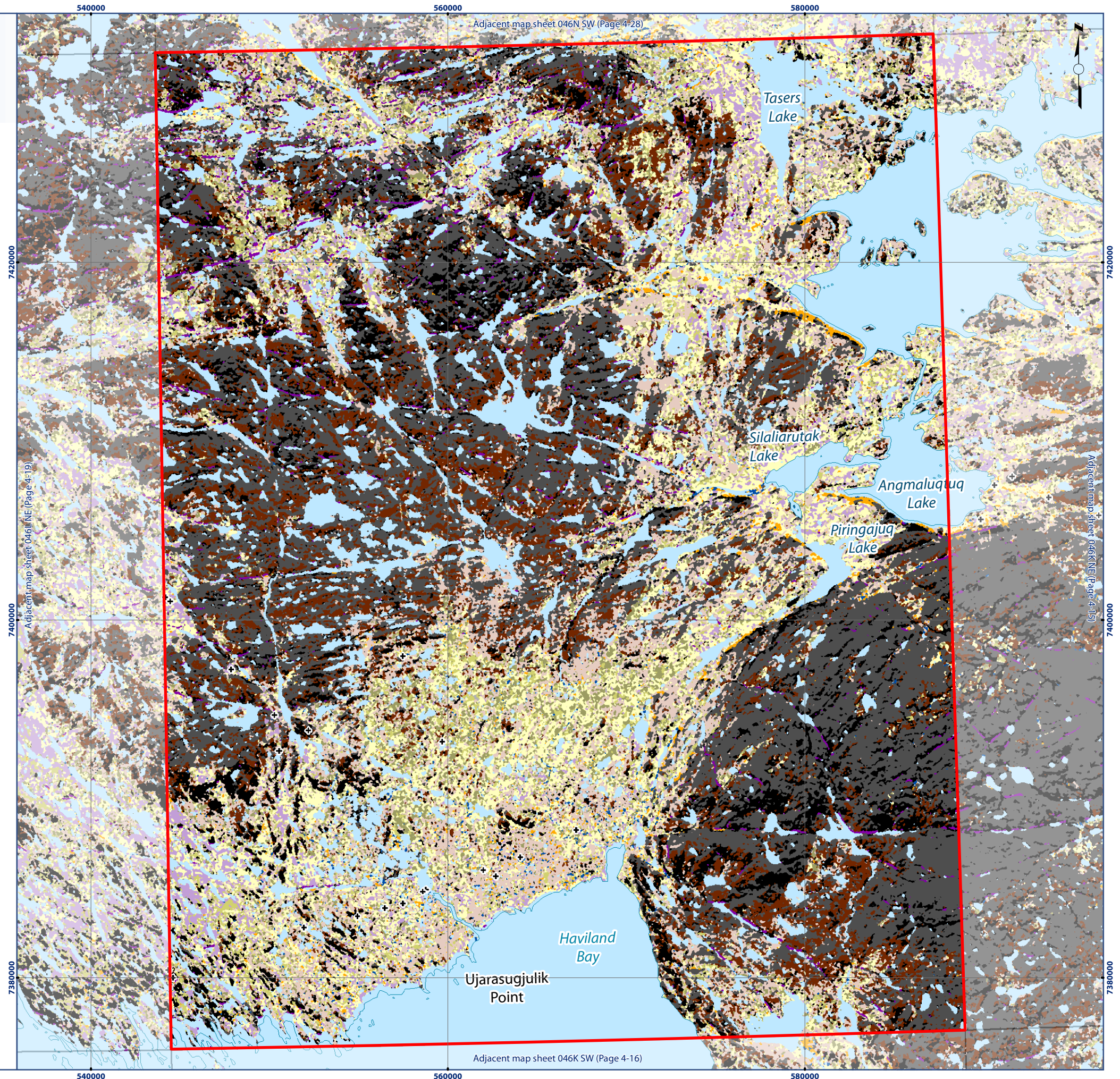


WGS 1984 UTM Zone 16N

### Data Sources:

Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



Adjacent map sheet 046N SW (Page 4-28)

Adjacent map sheet 046L NE (Page 4-19)

Adjacent map sheet 046K NE (Page 4-15)

Adjacent map sheet 046K SW (Page 4-16)





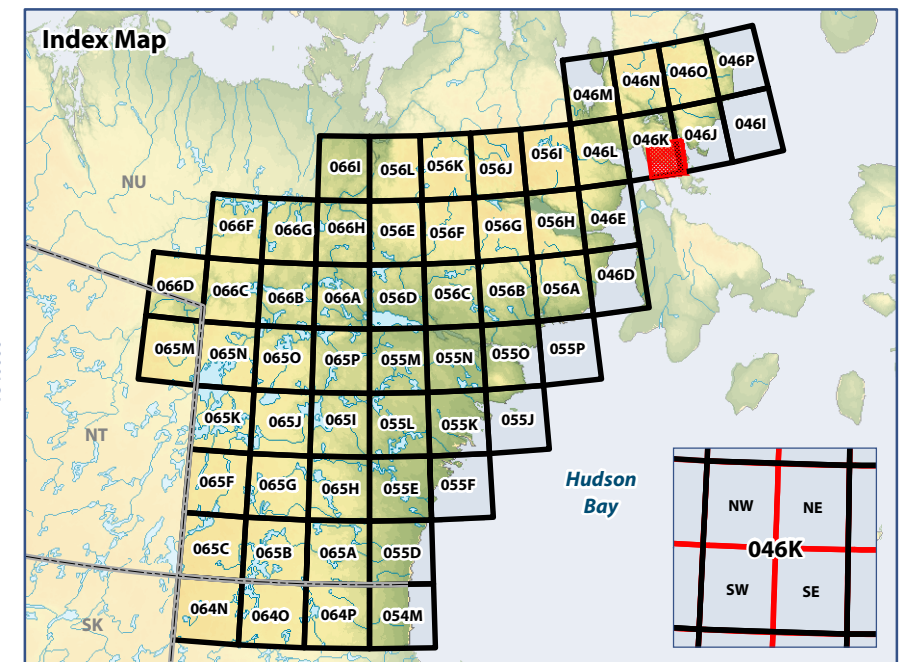




## Map 046K SE Ecological Land Classification

### Legend

- |   |                        |  |                           |
|---|------------------------|--|---------------------------|
| + | ELC Sample Sites       |  | Heath Upland/Rock Complex |
|   | Water                  |  | Lichen/Rock Complex       |
|   | Wet Graminoid          |  | Sand                      |
|   | Graminoid Tundra       |  | Boulder/Gravel            |
|   | Graminoid/Heath Tundra |  | Rock                      |
|   | Dryas Tundra           |  | Ice                       |
|   | Heath Tundra           |  | Cloud/Shadow              |
|   | Heath Upland           |  |                           |



WGS 1984 UTM Zone 16N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

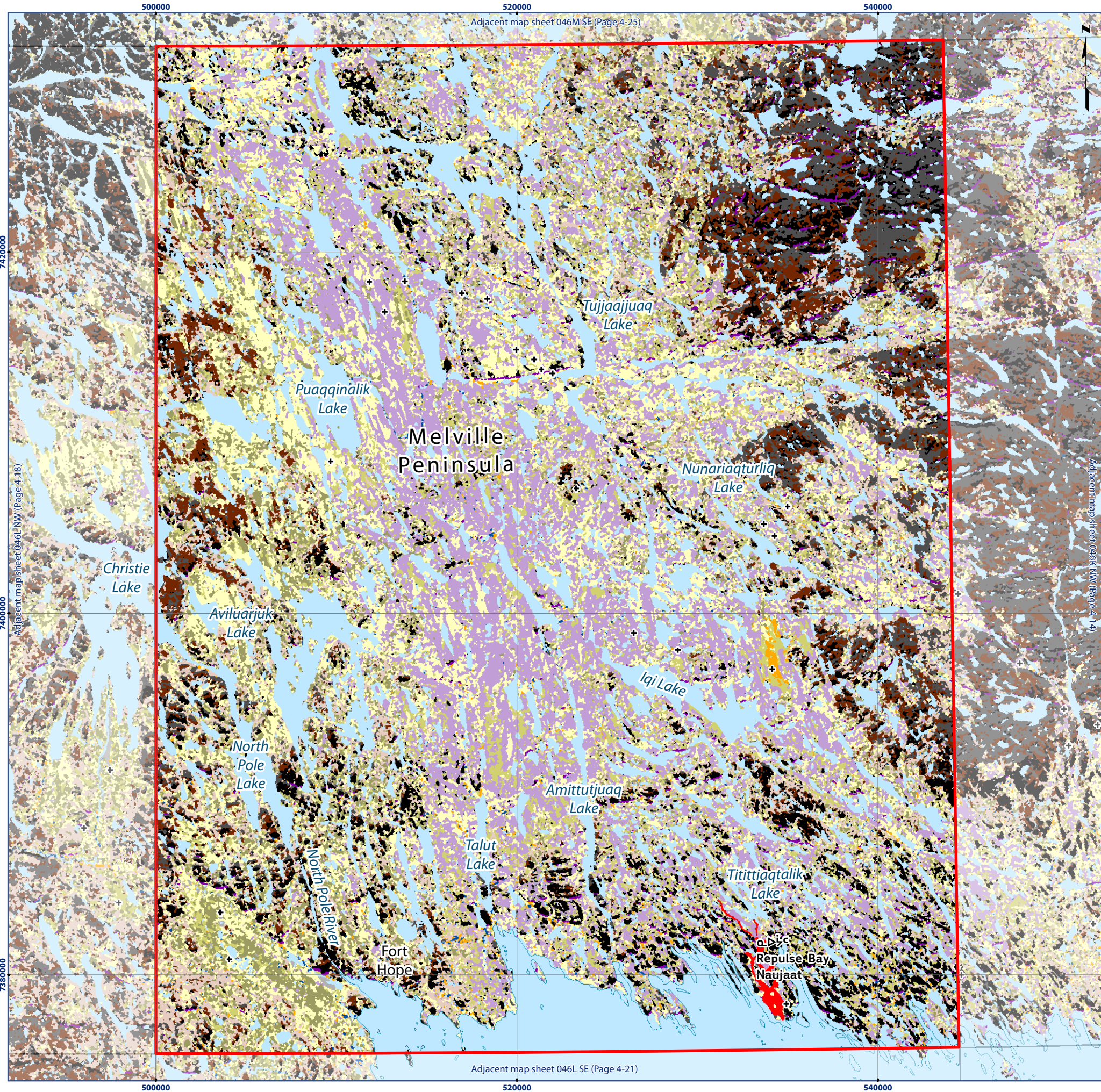
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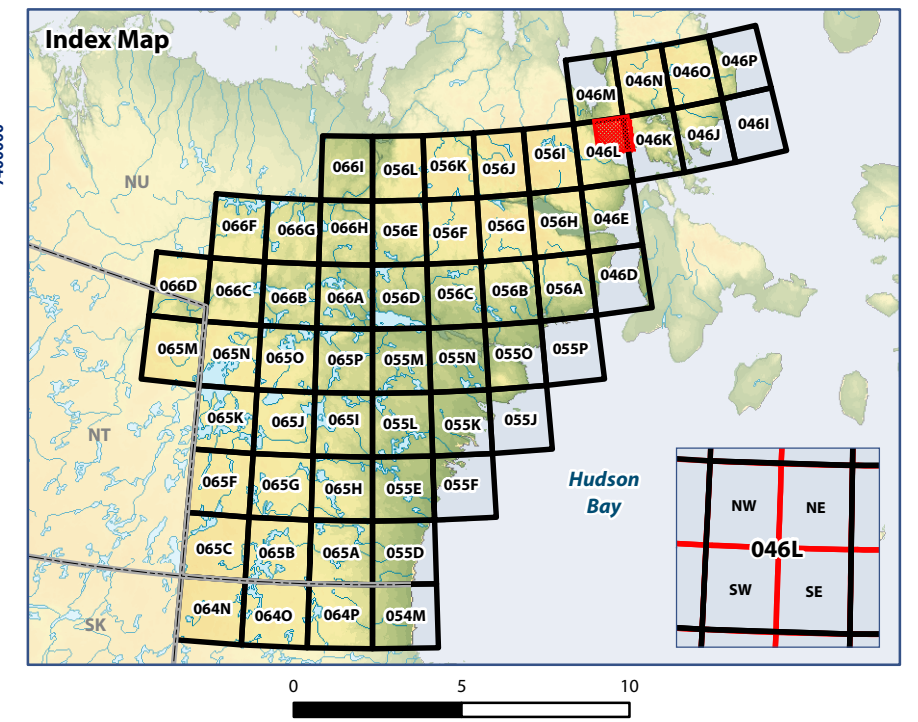




# Map 046L NE Ecological Land Classification

## Legend

- |   |                        |  |                           |
|---|------------------------|--|---------------------------|
| + | ELC Sample Sites       |  | Heath Upland/Rock Complex |
|   | Water                  |  | Lichen/Rock Complex       |
|   | Wet Graminoid          |  | Sand                      |
|   | Graminoid Tundra       |  | Boulder/Gravel            |
|   | Graminoid/Heath Tundra |  | Rock                      |
|   | Dryas Tundra           |  | Ice                       |
|   | Heath Tundra           |  | Disturbance               |
|   | Heath Upland           |  |                           |



**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:
















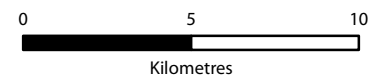
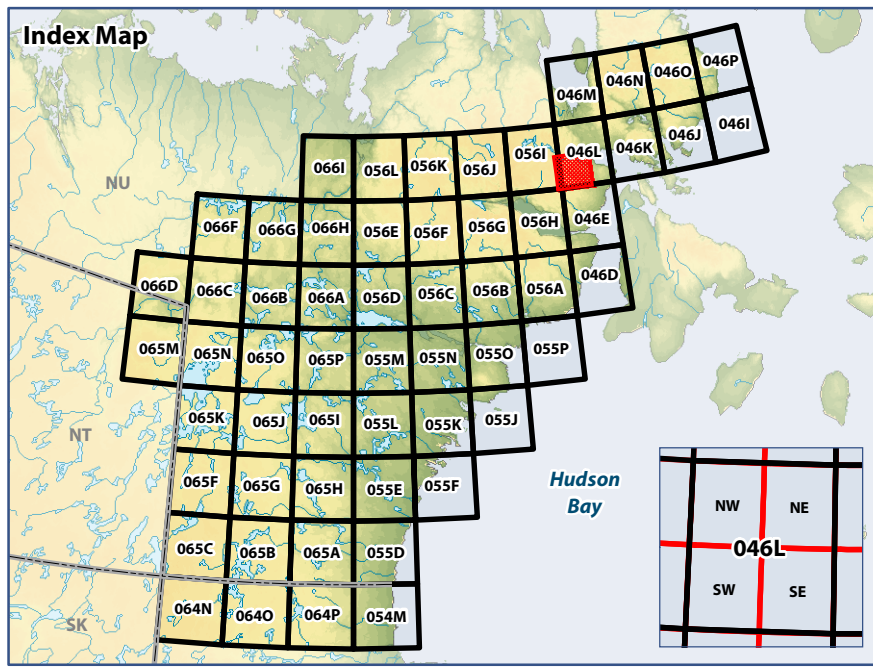
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# Map 046L SW Ecological Land Classification

## Legend

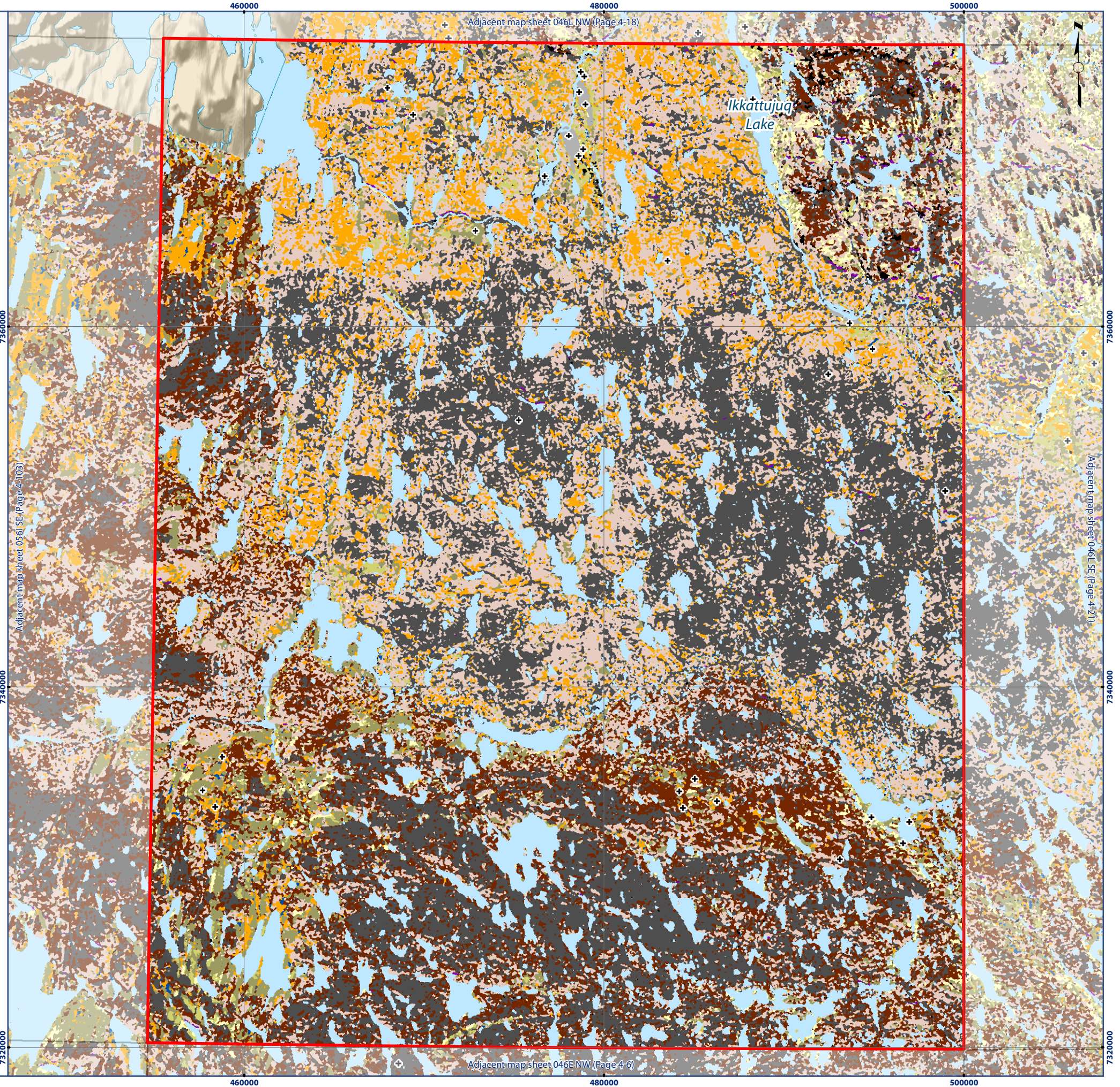
- |  |                        |   |                           |
|--|------------------------|---|---------------------------|
| +  | ELC Sample Sites       |  | Heath Upland              |
|  | Water                  |  | Heath Upland/Rock Complex |
|  | Wet Graminoid          |  | Lichen/Rock Complex       |
|  | Graminoid Tundra       |  | Sand                      |
|  | Graminoid/Heath Tundra |  | Boulder/Gravel            |
|  | Dryas Tundra           |  | Rock                      |
|  | Heath Tundra           |  | Ice                       |



WGS 1984 UTM Zone 16N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)



Prepared by:

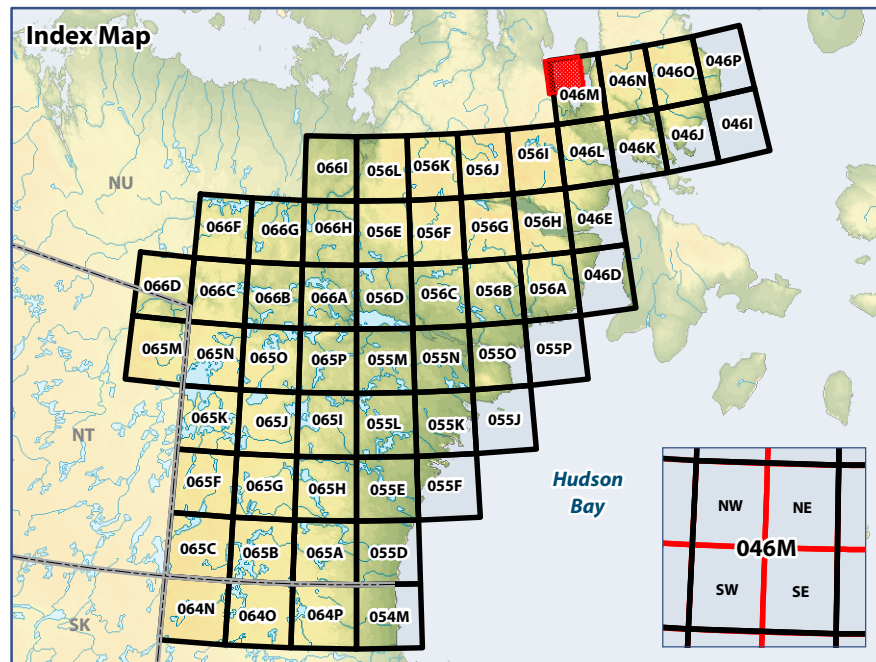




# Map 046M NW Ecological Land Classification

## Legend

-  Water
-  Cloud/Shadow

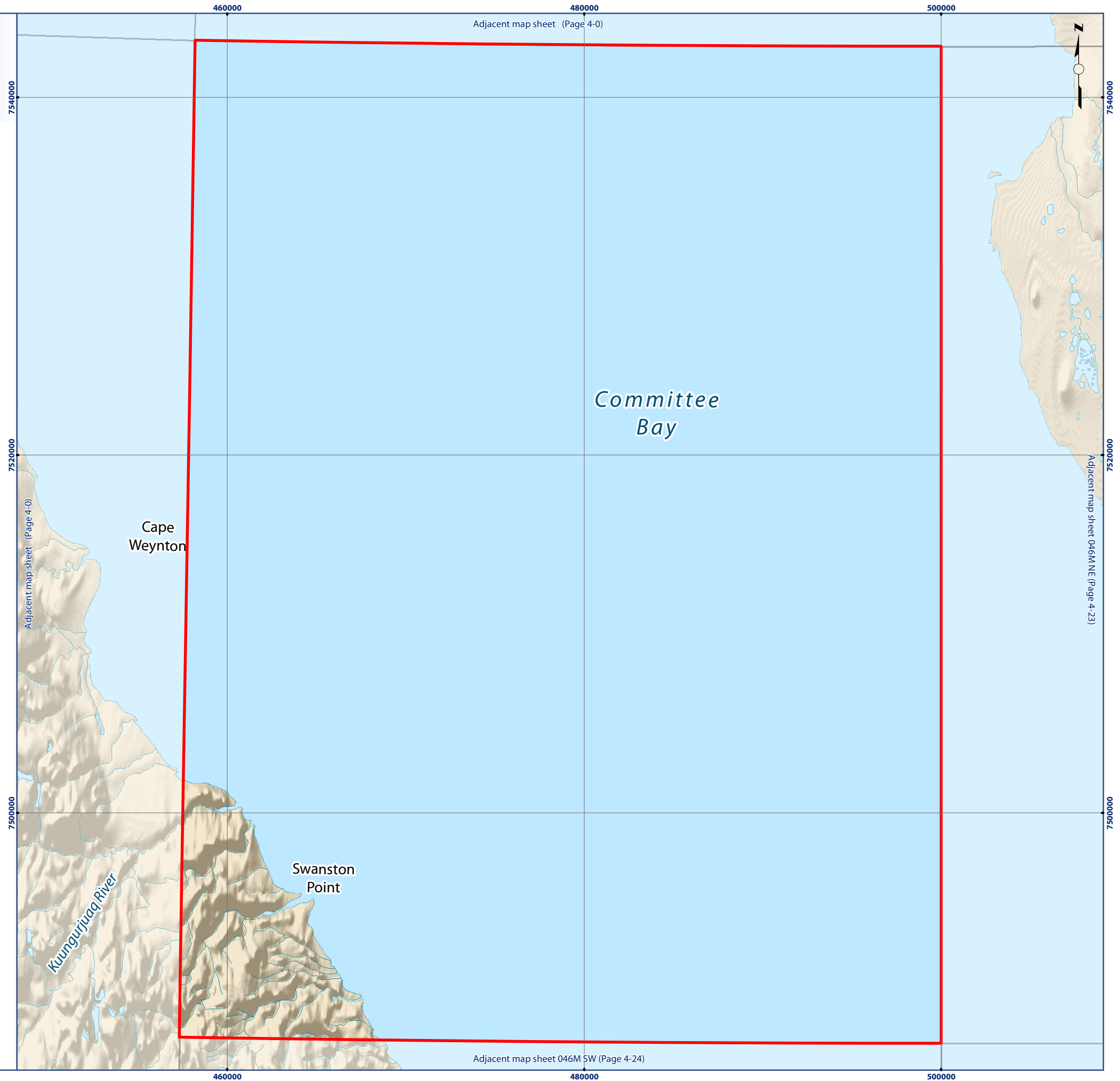


0 5 10  
Kilometres

WGS 1984 UTM Zone 16N

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



Adjacent map sheet (Page 4-0)

Adjacent map sheet (Page 4-0)

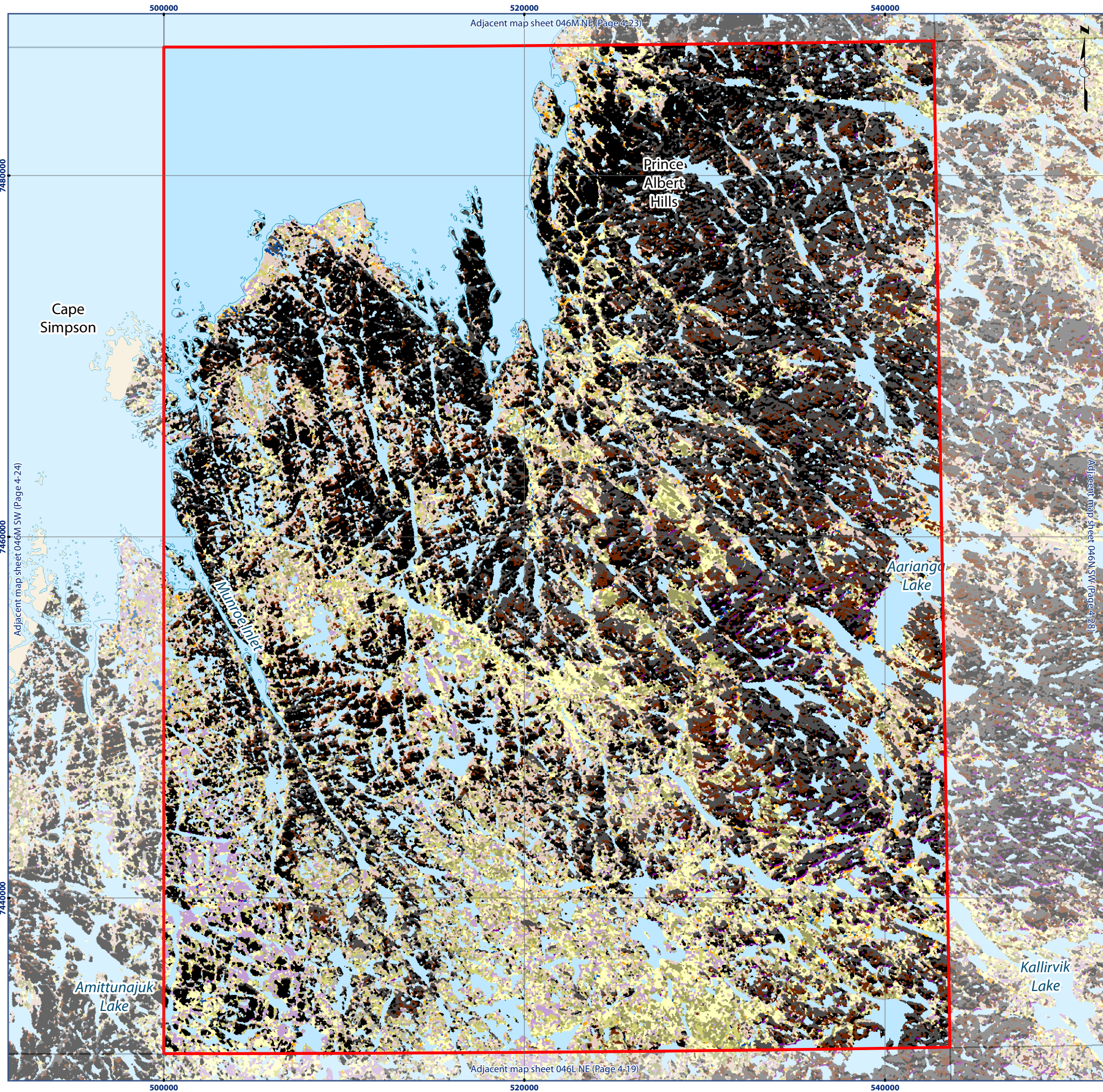
Adjacent map sheet 046M NE (Page 4-23)

Adjacent map sheet 046M SW (Page 4-24)



















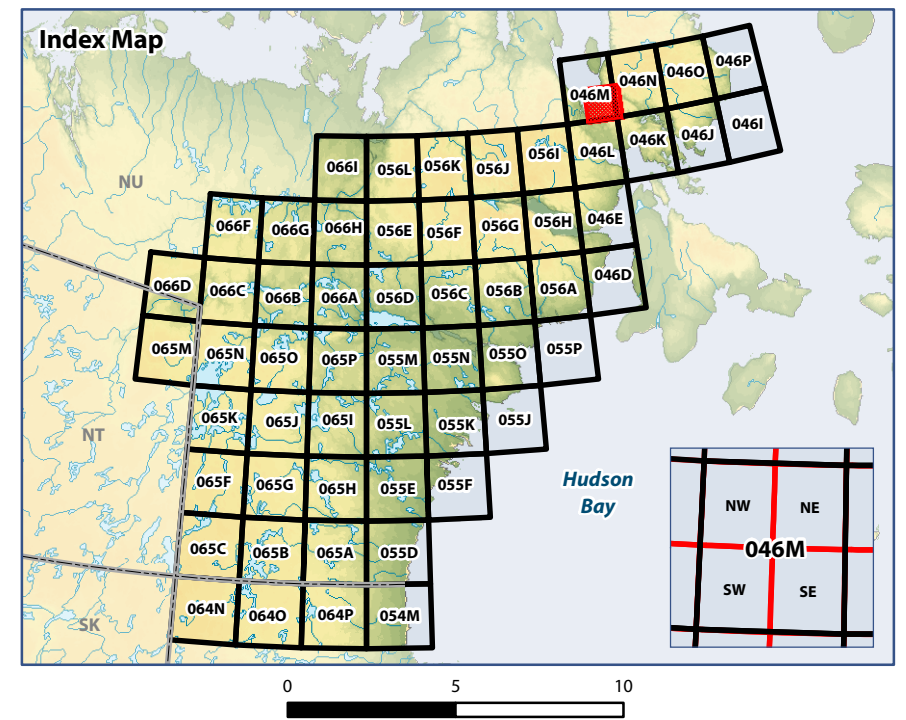




# Map 046M SE Ecological Land Classification

## Legend

- |  |   |
|--|---|
|  Water                  |  Heath Upland/Rock Complex |
|  Wet Graminoid          |  Lichen/Rock Complex       |
|  Graminoid Tundra       |  Sand                      |
|  Graminoid/Heath Tundra |  Boulder/Gravel            |
|  Dryas Tundra           |  Rock                      |
|  Heath Tundra           |  Ice                       |
|  Heath Upland           |  Cloud/Shadow              |



**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



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