

# Bowen Island Nexwlélexwm



## Environmental Atlas

Water & Topography

Sensitive Ecosystems

Stewardship

Sensitive Ecosystems & Stewardship

Sensitive Ecosystems on Private Land

Protected Areas & Eco Covenants

Groundwater Recharge Areas

Total Species Richness Model



**Bowen Island  
Conservancy**

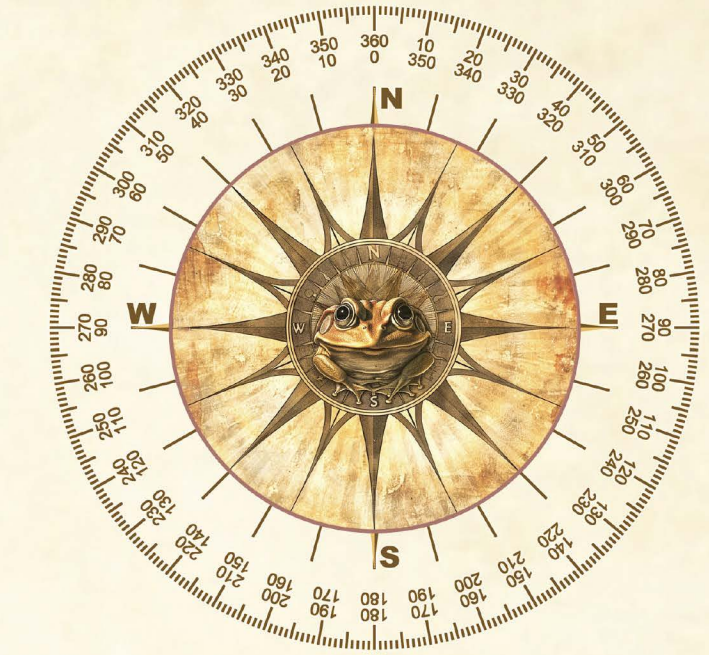
by John Dowler, William Shulba, Wendy Palen,  
Tom Sisk, Jay Matsushiba, Jeff Matheson, Daniel Martin,  
Bob Turner, Will Husby, Alan Whitehead & John Reid

~ Part of the Caring for Nature Biodiversity Initiative ~

of the Bowen Island Conservancy  
[bowenislandconservancy.org/biodiversity](http://bowenislandconservancy.org/biodiversity)






v1.3 May 2025

# Bowen Island Nexwléxwm







## Water & Topography

### LEGEND

-  Lakes & ponds
-  Wetlands
-  Summits
-  Fish bearing streams and tributaries
-  Non-fish bearing streams

Streams marked 'fish bearing' include the upper parts of streams that lack fish populations but feed into downstream areas that support salmon and/or trout populations.  
Non-fish bearing streams lack salmon and/or trout populations.

### INSET MAP

-  Water supply catchments
-  Points of water diversion (e.g. dams, intakes)
-  Surface water supply
-  Changed from surface to aquifer supply
- 1 Hood Point / Grafton Bay
- 2 Eagle Cliff
- 3 Cove Bay
- 4 Josephine Lk (also feeds #5)
- 5 Fairweather & Josephine Creek
- 6 Lee Creek
- 7 Bluewater Park
- 8 Bluewater Park
- 9 Bowen Bay
- 10 Tunstall Bay

The frame provides a coordinate grid in 1 kilometre increments.



Scale 1:18,625 • Projection: UTM NAD 83 • EPSG 26910

Bowen Island Land & Water Map v.1.3  
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Bowen Island Conservancy

*This map should not be relied upon for legal matters. Errors & omissions excepted.*

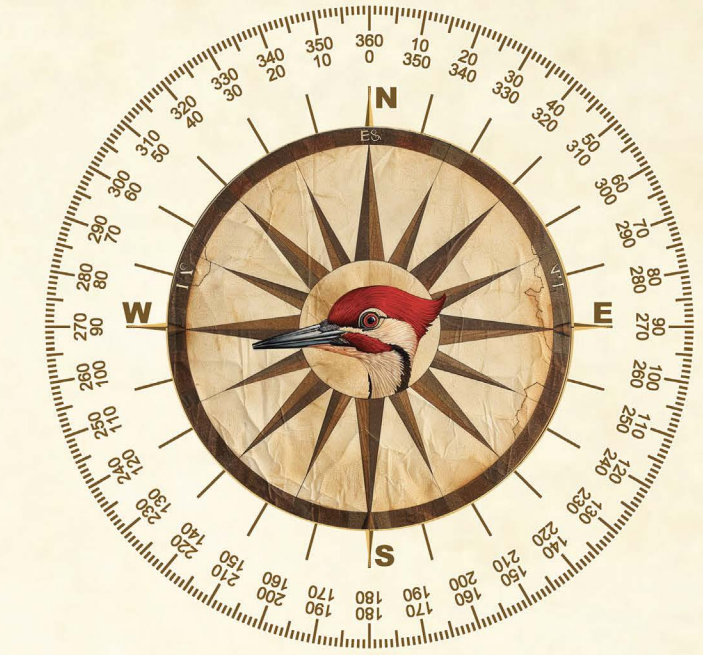
Sources - Lidar data: Metro Vancouver. Hillshade models: Jeff Matheson. Wetlands: Alan Whitehead. Lakes, streams, watersheds, contours: Bowen Island Municipality. Background texture: Freepik. Scientific advisors: Alan Whitehead, Bob Turner, Jeff Matheson, Will Husby.



Major  
Water Supply  
Catchments

← 1 km →

# Bowen Island Nexwléxwm



## Sensitive Ecosystems

These are recognized by the Province as ecologically sensitive, important, at-risk, and fragile areas that are relatively unmodified by human disturbance. Though most of the island was logged during the 19th and 20th centuries, today these areas have significant biodiversity values, providing many habitat features needed by threatened and endangered plant & animal species.

## LEGEND

Many areas have mixed ecosystem types. Shown here is the most prevalent one in each area. 'Herbaceous' & 'sparsely vegetated' areas are described here as moss/lichen bluffs.

- Old forest
- Woodland
- Moss/lichen bluffs
- Mature forest
- Old fields
- Young forest
- Wetlands
- Human-modified areas
- Intertidal zones
- Lakes & ponds
- Eelgrass
- Summits
- Streams
- Sensitive Riparian Zones
- Ecosystem Unit Boundaries

The frame provides a coordinate grid in 1 kilometre increments.



Scale 1:18,625 • Projection: UTM NAD 83 • EPSG 26910

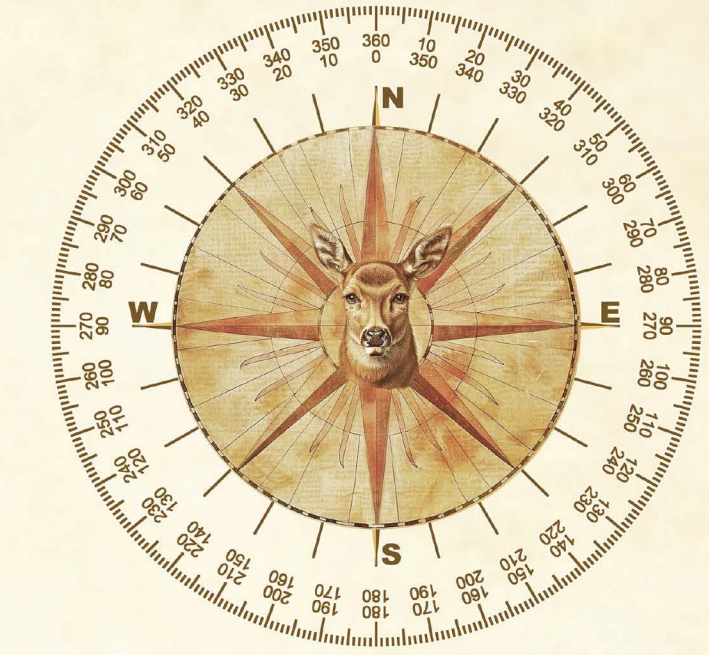
Bowen Island Sensitive Ecosystems Map v.1.3  
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Bowen Island Conservancy  
*This map should not be relied upon for legal matters. Errors & omissions excepted.*

Sources - Sensitive Area Inventory: Metro Vancouver.  
Lakes, streams, contours: Bowen Island Municipality.  
Intertidal zones: Will Husby. Wetlands: Alan Whitehead.  
Eelgrass beds: Islands Trust. Roads: Open Street Map.  
Background: Freepik. Hillshade © Esri. Science advisors:  
Alan Whitehead, Bob Turner, Jeff Matheson, Will Husby.



# Bowen Island Nexwléxwm



## Stewardship

Public and private owners share responsibility for preserving our natural world.

### LEGEND

- Ecological Reserve 48 (F7) (provincial)
- Apodaca Provincial Park (H8)
- Municipal Parks
- Private Land
- Summits
- Agricultural Land Reserve
- Metro Vancouver Parks  
Crippen Park (G3)  
Cape Roger Curtis (B9)
- Islands Trust Conservancies  
David Otter (F4)  
Singing Woods (G6)  
Fairy Fen (C9)
- Bowen Island Conservancies  
Wild Coast Nature Reserve (B10)
- Crown Land (Provincial)
- Old Growth Management Area (provincial)
- Fishbearing Streams & Tributaries
- Non-fishbearing Streams
- Riparian zone 30m each bank
- Lakes & Ponds
- Wetlands

The frame provides a coordinate grid in 1 kilometre increments.



Scale 1:18,625 • Projection: UTM NAD 83 • EPSG 26910

Bowen Island Stewardship Map v.1.3  
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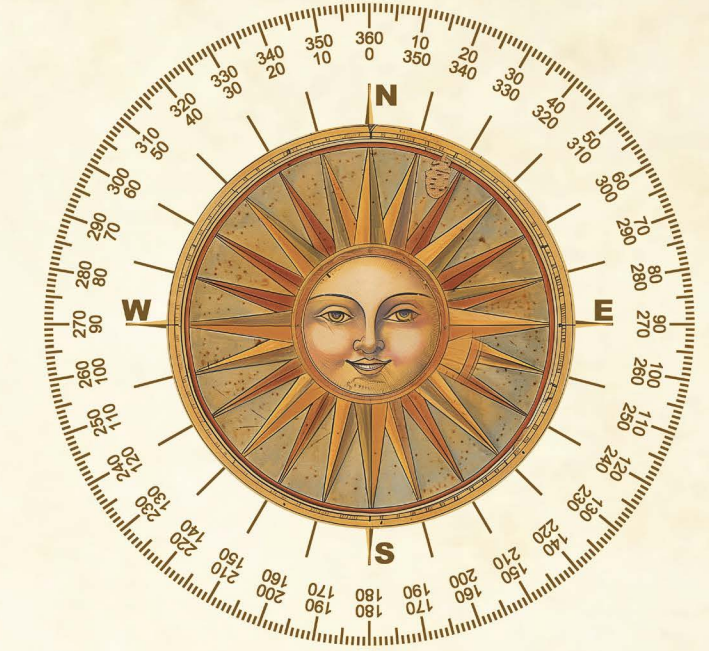
This map should not be relied upon for legal matters. Errors & Omissions excepted.

Sources - Lakes, streams, parks, stewardship areas: Bowen Island Municipality. Wetlands: Alan Whitehead. Property lines: Province of BC. Background texture: image by Freepik. Scientific advisors: Will Husby, Jeff Matheson, Bob Turner, Alan Whitehead.



1 km

# Bowen Island Nexwléxwm



## Sensitive Ecosystems & Stewardship

These are recognized by the Province as ecologically sensitive, important, at-risk, and fragile areas that are relatively unmodified by human disturbance. They have significant biodiversity values providing many habitat features needed by threatened and endangered plant & animal species.

### LEGEND

Many areas have mixed ecosystem types. Shown here is the most prevalent one in each area. 'Herbaceous' & 'sparsely vegetated' areas are described here as moss/lichen bluffs.


### STEWARDSHIP / OWNERSHIP


The frame provides a coordinate grid in 1 kilometre increments.



Scale 1:18,625 • Projection: UTM NAD 83 • EPSG 26910

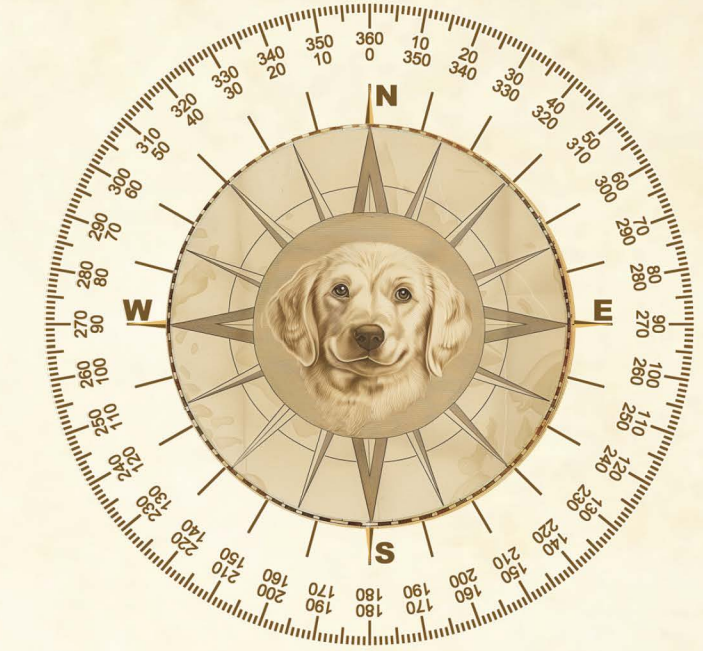
Bowen Island Sensitive Ecosystems Stewardship Map v.1.3  
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Bowen Island Conservancy  
*This map should not be relied upon for legal matters. Errors & omissions excepted.*

Sources - Sensitive Area Inventory: Metro Vancouver. Ownership boundaries: Province of BC. Lakes, streams, contours: Bowen Island Municipality. Intertidal zones: Will Husby. Wetlands: Alan Whitehead; Eelgrass beds: Islands Trust. Roads: Open Street Map. Background: Freepik. Hillshade © Esri. Scientific advisors: Alan Whitehead, Bob Turner, Jeff Matheson, Will Husby.



# Bowen Island Nexwléxwm



## Sensitive Ecosystems On Private Land

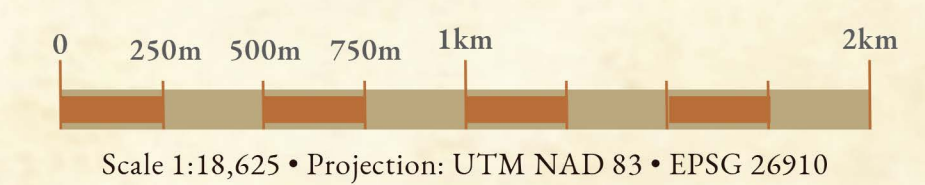
These ecologically sensitive, intact, and at-risk areas have significant biodiversity values, and provide habitat features needed by threatened and endangered plant & animal species. Private lands are where we'll grow neighbourhoods for families and safe spaces for nature. Land owners are the stewards of a lot of sensitive habitat, where pets and wild creatures share streets and back yards.

### LEGEND

Many areas have mixed ecosystem types. Shown here is the most prevalent one in each area. 'Herbaceous' & 'sparsely vegetated' areas are described here as moss/lichen bluffs. Survey year: 2016.

	Old forest		Woodland
	Mature forest		Moss/lichen bluffs
	Young forest (>5ha)		Old fields
	Human-modified areas		Wetlands
	Lakes & ponds		
	Streams		Riparian Zones
			Contours 10m
	Buildings (2018)		Ecosystem Unit Boundaries

The frame provides a coordinate grid in 1 kilometre increments.



Bowen Island Sensitive Ecosystems on Private Land  
Map v.1.2 © 2024 by John Dowler • cosmicidea.com



*This map should not be relied upon for legal matters. Errors & omissions excepted.*

Sources - Buildings: Natural Resources Canada. Sensitive Areas: Metro Vancouver. Properties: Province of BC. Wetlands: Allan Whitehead. Lakes, streams: Bowen Island Municipality. Background: Freepik. Advisors: Alan Whitehead, Bob Turner, Jeff Matheson, John Reid, Will Husby.



# Bowen Island Nexwléxwm







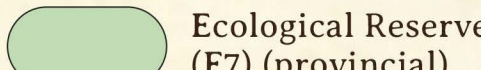

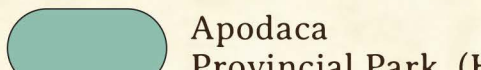



## Protected Areas & Eco Covenants

A conservation covenant is a voluntary legal agreement between a landowner and a government body or preservation society. It stays in effect when the property is sold. The landowner follows simple guidelines written by a biologist. The land remains private. As a covenant holder, Bowen Municipality gains the ability to give local habitat on private land a check-up from time to time, in concert with owners.

This map was made for the Bowen Island Conservancy, with the generous support of the Knick Knack Nook. It is complemented by the *Bowen Island Environmental Covenant Catalogue*, which identifies and provides data for all the covenants on this map. Based on available documents, there may be inaccuracies. For fully reliable information, it's best to do a land title search.


### LEGEND

- |   |  |
|---|--|
|  Lakes & ponds                           |  Wetlands                 |
|  Fish bearing streams & tributaries      |  Non-fish bearing streams |
|  Environmental Covenants                 |  Metro Vancouver Parks    |
|  Ecological Reserve 48 (F7) (provincial) |  Conservancies            |
|  Apodaca Provincial Park (H8)            |  Municipal Parks          |

The frame provides a coordinate grid in 1 kilometre increments.



Bowen Island Protected Areas & Eco Covenants Map v1.3  
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 Bowen Island Conservancy *This map should not be relied upon for legal matters. Errors & omissions excepted.*

Sources - Wetlands: Alan Whitehead. Parks, lakes, streams, watersheds, contours, covenant source docs: Bowen Island Municipality. Covenants: John Dowler; Background: image by Freepik. Advisors: Alan Whitehead, B. Buckingham, Bob Turner, Daniel Martin, Jeff Matheson, John Reid, Josephine Riley, M. Underhill, Nerys Poole, Sue Ellen Fast, Will Husby.

