



Saturna Island Local Trust Committee Regular Meeting Agenda

Date: July 9, 2020
Time: 11:30 am
Location: Electronic Meeting

		Pages
1.	CALL TO ORDER	11:30 AM - 11:45 AM
2.	APPROVAL OF AGENDA	
3.	TRUSTEE REPORT	
4.	CHAIR'S REPORT	
5.	TOWN HALL AND QUESTIONS	11:45 AM - 12:00 PM
6.	COMMUNITY INFORMATION MEETING	
	None	
7.	PUBLIC HEARING	
	None	
8.	MINUTES	12:00 PM - 12:10 PM
8.1	Local Trust Committee Minutes Dated May 15, 2020 (for Adoption)	3 - 8
8.2	Section 26 Resolutions-without-meeting Report - None	
9.	BUSINESS ARISING FROM THE MINUTES	
9.1	Follow-up Action List Dated July 2020	9 - 10
10.	DELEGATIONS	
	None	
11.	CORRESPONDENCE	
	<i>Correspondence received concerning current applications or projects is posted to the LTC webpage</i>	
12.	APPLICATIONS AND REFERRALS	

13.	LOCAL TRUST COMMITTEE PROJECTS	12:10 PM - 1:15 PM	
13.1	Groundwater Sustainability Project – Verbal Update (William Shulba)		
13.2	First Nations Relationship Building – Draft Bylaw – Staff Report (Attached)		11 - 24
14.	REPORTS	1:15 PM - 1:30 PM	
14.1	Work Program Reports (attached)		
14.1.1	<u>Top Priorities Report dated July 2020</u>		25 - 25
14.1.2	<u>Projects List Report Dated July 2020</u>		26 - 26
14.2	Applications Report Dated July 2020 (attached)		27 - 30
14.3	Trustee and Local Expense Report Dated May 2020 (attached)		31 - 31
14.4	Adopted Policies and Standing Resolutions (attached)		32 - 35
14.5	Local Trust Committee Webpage		
14.6	Islands Trust Conservancy Report Dated May 2020 (attached)		36 - 37
15.	NEW BUSINESS	1:30 PM - 1:40 PM	
15.1	Contiguous Forest Mapping in the Islands Trust Area Report		38 - 69
16.	UPCOMING MEETINGS		
16.1	Next Regular Meeting Scheduled for October 15, 2020 - Electronic Meeting		
17.	TOWN HALL	1:40 PM - 2:00 PM	
18.	CLOSED MEETING		
	None		
19.	ADJOURNMENT	2:00 PM - 2:00 PM	



Saturna Island Local Trust Committee

Minutes of Regular Meeting

Date: May 15, 2020
Location: Electronic Meeting (Via Zoom Webinar)

Members Present: Laura Patrick, Chair
Paul Brent, Local Trustee
Lee Middleton, Local Trustee

Staff Present: Robert Kojima, Regional Planning Manager
Brad Smith, Island Planner
Ruth Daber, Recorder

Public: There were approximately (3) attendees via the Zoom Webinar.

1. CALL TO ORDER

Chair Patrick called the meeting to order at 11:31 a.m. She acknowledged that the meeting was being held in traditional territory of the Coast Salish First Nations.

Chair Patrick introduced Trustees Brent and Middleton, new Saturna Island Planner Smith and other staff.

2. APPROVAL OF AGENDA

By general consent the agenda was approved as presented.

3. TRUSTEE REPORT

Trustee Brent reported of his participation in inter-island Zoom meetings in his capacity as Harbours Commissioner, Parks and Rec Chair and Community Economics Sustainability Commissioner.

Trustee Middleton reported of inter-agency calls in response to COVID-19.

Trustee Middleton gave an update of the Transport Canada distance consultation regarding Southern Resident Killer Whales (SRKWs) recovery measures for 2020:

- More information would come at the Trust Council meeting in June;
- The SRKW sanctuary zones would include a 20-metre transit zone for human powered vessels;
- LTC to work with staff and express support via a letter for federal vessel speed, fishing and boat access management measures that come into effect June 1, 2020

Chair Patrick thanked both Trustees for their COVID-19 response in their community.

4. CHAIR'S REPORT

Chair Patrick mentioned the June Trust Council Meeting would be the first electronic meeting and that the deadline for delegations was firmly three weeks prior the meeting.

5. TOWN HALL AND QUESTIONS

None

6. COMMUNITY INFORMATION MEETING

None

7. PUBLIC HEARING

None

8. MINUTES

8.1 Local Trust Committee Minutes Dated April 16, 2020 (for Adoption)

By general consent, the Local Trust Committee meeting minutes of April 16, 2020 were adopted.

8.2 Section 26 Resolutions-without-meeting Report Dated May 2020

Received for information.

9. BUSINESS ARISING FROM THE MINUTES

9.1 Follow-up Action List Dated May 2020

Planner Smith mentioned that all was complete regarding his input and he will do some follow-up.

Trustee Middleton explained that there was no intent to write a letter of local government support until SRKW's recovery measures were officially released.

10. DELEGATIONS

None

11. CORRESPONDENCE

Correspondence received concerning current applications or projects is posted to the LTC webpage

12. APPLICATIONS AND REFERRALS

None

13. LOCAL TRUST COMMITTEE PROJECTS

13.1 Draft OCP Wording - First Nations Relationship Building- Staff Report

Planner Smith provided an update on the First Nations Relationship Building project, to introduce draft wording for inclusion in the Saturna Island Official Community Plan No. 70, 2001 (OCP), and to seek direction on next steps.

SA-2020-014

It was Moved and Seconded,

that the Saturna Island Local Trust Committee direct staff to draft OCP bylaw amendments in acknowledgement and reconciliation of First Nations place, context and inherent rights.

CARRIED

SA-2020-015

It was Moved and Seconded,

that the Saturna Island Local Trust Committee direct staff to update the First Nations Relationship Building project charter with revised timelines.

CARRIED

Planner Smith explained the next steps.

13.2 Draft Bylaws- National Park Zoning - Staff Report

Planner Smith gave an update on the progress to date with the Gulf Islands National Park Reserve Lands Zoning project, to introduce draft bylaw amendments to the Saturna Island Official Community Plan No. 70, 2001 (OCP) and Saturna Island Land Use Bylaw No. 119, 2018 (LUB), and to seek direction on next steps.

Planner Smith explained the following points:

- The maps included in the report proposed two distinct zonings;
- He asked the LTC to look at the maps in detail;
- He will work with Lisa Wilcox to draft a letter to First Nations; and
- This draft letter would advise potential implications, seek input and offer engagement.

There was a discussion regarding referring draft bylaws for comment to adjacent LTCs and Parks and Recs Commission and to amend the wording, if adjacent LTCs were not to be referred for comment.

Trustee Middleton thanked staff for progressing the project and asked to clarify zoning terminology.

Regional Planning Manager (RPM) Kojima gave background information referring to initial creation of the National Park Reserves and explained all other Southern Gulf Islands had changed their OCPs accordingly some years earlier. Potential loss of density and tax payments were mentioned regarding hesitation to change the OCP.

SA-2020-016

It was Moved and Seconded,

that the Saturna Island Local Trust Committee direct staff to undertake referrals, excluding Mayne, South Pender and North Pender Local Trust Committees, in respect of proposed Bylaw No. 129 cited as "Saturna Island Official Community Plan Bylaw No. 70, 2000, Amendment No. 1, 2020".

CARRIED

SA-2020-017

It was Moved and Seconded,

that the Saturna Island Local Trust Committee direct staff to undertake referrals, excluding Mayne, South Pender and North Pender Local Trust Committees, in respect of proposed Bylaw No. 130 cited as "Saturna Island Land Use Bylaw No. 119, 2018, Amendment No. 1, 2020".

CARRIED

SA-2020-018

It was Moved and Seconded,

that the Saturna Island Local Trust Committee direct staff to update the Gulf Islands National Park Reserve Lands Zoning project charter with revised timelines.

Trustee Middleton clarified that referrals were to be undertaken prior first reading.

The question on the motion was then called.

CARRIED

Planner Smith clarified a referral to the Saturna Parks Commission would be undertaken. A Community Information Meeting (CIM) may be considered as a next step following referrals.

14. REPORTS

14.1 Work Program Reports

14.1.1 Top Priorities Report dated May 2020

Trustee Middleton enquired about changing the expired timeline of the Groundwater Sustainability Project.

RPM Kojima explained that those on the Local Planning Committee would receive an update the following week.

Planner Smith mentioned he would invite William Shulba to give an update at the next Saturna Island LTC on July 9th, 2020.

Chair Patrick invited Saturna Island LTCs to send questions through her for the upcoming Strategic Planning Committee. She also mentioned the Saltwater Mapping Project.

Planner Smith mentioned rewording in “First Nations Relationship Building” project description in report to provide more information and next steps.

14.1.2 Projects List Report Dated May 5, 2020

Received for information.

14.2 Applications Report Dated May 2020

Trustee Brent noted that applications were moving at a slow pace.

Planner Smith responded he will seek to close-out some applications and that Islands Trust’s involved tasks had mostly been completed.

14.3 Trustee and Local Expense Report Dated February 2020

Received for information.

14.4 Adopted Policies and Standing Resolutions

Trustee Middleton mentioned two additional Standing Resolutions of the February 14th, 2020 Saturna LTC were in the process to be added to the log about:

- A letter of support for SRKW’s recovery measures,
- Whale watching boat licensing and regulating.

Planner Smith confirmed the work in progress on updating the Standing Resolutions log for reports and website.

14.5 Local Trust Committee Webpage

No comments were made.

14.6 Islands Trust Conservancy Report Dated February 2020

Received for information.

15. NEW BUSINESS

15.1 Annual Report - Request for Decision

Chair Patrick referred to the report on page 51.

The LTC explained the wording regarding the SRKW related work should be mentioned.

SA-2020-019

It was Moved and Seconded,

that the Saturna Island Local Trust Committee add to the annual report for Saturna Island, that “The Saturna Island Local Trust Committee also passed three standing resolutions in support of efforts to enhance protections to avoid extinction of the Southern Resident Killer Whales.”

CARRIED

16. UPCOMING MEETINGS

16.1 Next Regular Meeting Scheduled for July 9, 2020 - Electronic Meeting

There was a discussion regarding the possibility to meet in person in July versus electronically.

17. TOWN HALL

Chair Patrick invited the public to speak.

John Hutchinson commented on using the electronic meeting platform the first time and welcomed new Saturna Planner, Brad Smith.

Planner Smith mentioned regarding writing to First Nations that a letter would be presented to LTC for review prior submission.

18. CLOSED MEETING

None

19. ADJOURNMENT

By general consent the meeting was adjourned at 12:21 p.m.

Laura Patrick, Chair

Certified Correct:

Ruth Daber, Recorder



Follow Up Action Report

Saturna Island

14-Feb-2020

Activity	Responsibility	Dates	Status
1 Letter to be sent from the chair to the appropriate agencies/people regarding the LTCs resolution supporting interim sanctuary zones for the recovery of Southern Resident Killer Whales (SKRWs). (see minutes and contact Trustee Middleton for further details).	Clare Frater Mike Richards	Target: 31-Jul-2020	In Progress
2 Letter to be sent from the chair to the appropriate agencies/people regarding the LTCs resolution supporting the regulation of commercial whale watching boats similar to the regulatory regime in the adjacent Washington State waters. (see minutes and contact Trustee Middleton for further details).	Clare Frater Mike Richards	Target: 31-Jul-2020	In Progress

15-May-2020

Activity	Responsibility	Dates	Status
1 13.1 Staff to draft OCP bylaw amendments in acknowledgement and reconciliation of First Nations place, context and inherent rights.	Brad Smith Jas Chonk	Target: 19-Jun-2020	Completed
2 13.1 Staff to update First Nations Relationship Building project charter	Brad Smith	Target: 29-May-2020	Completed
3 13.2 Staff to update National Parks Reserve Lands zoning project charter	Brad Smith	Target: 29-May-2020	Completed

Follow Up Action Report

Saturna Island

15-May-2020

Activity	Responsibility	Dates	Status
4 13.2 Staff to draft letter for LTC review and then send National Park Reserve rezoning referral letters to First Nations and affected agencies (ie Parks Canada, CRD, Saturna Parks Commission)	Brad Smith Lisa Wilcox Maple Hung	Target: 31-Jul-2020	In Progress
5 15.1 LPS Staff to provide updated resolution wording to TAS re: Saturna LTC annual report section approval	Robert Kojima	Target: 29-May-2020	Completed
6 8.1 April 16, 2020 LTC special meeting minutes adopted as presented	Maple Hung	Target: 05-Jun-2020	Completed
7 14.4 Staff to update standing resolutions page with 2 additional whale related resolutions passed Feb 14, 2020	Brad Smith Maple Hung	Target: 29-May-2020	Completed
8 Staff to invite Water Specialist to provide update/Saturna results re: SGI groundwater project at July 9, 2020 LTC meeting	Brad Smith	Target: 19-Jun-2020	Completed



File No.: SA-6500-20 First Nations
Relationship Building

DATE OF MEETING: July 6, 2020

TO: Saturna Island Local Trust Committee

FROM: Brad Smith, Island Planner
Southern Team

COPY: Robert Kojima, Regional Planning Manager
Lisa Wilcox, Senior Intergovernmental Policy Advisor

SUBJECT: First Nations Relationship Building – First Reading of Draft Bylaw

RECOMMENDATION

1. **That the Saturna Island Local Trust Committee Bylaw No. 132, cited as “Saturna Island Official Community Plan Bylaw No. 70, 2000, Amendment No. 2, 2020”, be read a first time.**
2. **That the Saturna Island Local Trust Committee has reviewed the Islands Trust Policy Statement Directive Policies Checklist and determined that proposed Bylaw No. 132 is not contrary to or at variance with the Islands Trust Policy Statement.**

REPORT SUMMARY

The purpose of this staff report is to present draft Bylaw No. 132 to the Saturna Island Local Trust Committee (LTC) for consideration of first reading. The intent of the bylaw amendment is to revise the Saturna Island Official Community Plan No. 70, 2001 (OCP) to include wording in acknowledgement and reconciliation of First Nations place, context and inherent rights.

The recommendations above are supported as:

- The recognition and acknowledgement of First Nations place, context and inherent rights within the OCP is consistent with the reconciliation objectives of the Islands Trust and the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP); as well as Bill 41 *Declaration on the Rights of Indigenous Peoples Act (DRIPA)*;
- First Nations were provided draft OCP amendment wording via a referral letter sent in October 2019 no responses were received;
- Giving first reading to the draft bylaw and another round of referrals will help to further clarify First Nations and government agency perspectives with the proposed OCP amendment; and,
- Staff have made revisions to the wording provided to First Nations in October 2019, and thus it would be prudent to hold off on giving second reading to Bylaw 132 (along with scheduling a Community Information Meeting and Public Hearing) until formal referrals are completed.

BACKGROUND

The First Nations Relationship Building Project began in 2017. At the July 18, 2019 regular LTC meeting staff presented a revised project charter for LTC endorsement. The LTC passed the following resolution:

SA-2019-044

It was Moved and Seconded,

that the Saturna Island Local Trust Committee endorse the project charter, dated July 10, 2019, regarding the preparation of OCP amendments to reflect First Nations presence on Saturna Island.

Carried

As a first step in the project, staff developed draft wording for potential inclusion within the OCP and vetted this wording to First Nations for review and comment in October 2019. No responses were received.

Subsequently, staff met in April 2020 to review the draft wording, and edits were made to shorten the overall length of the wording while not diminishing its intent. This amended language was presented to the LTC for consideration at the May 5, 2020 LTC meeting. At this meeting, the LTC passed the following resolution:

SA-2020-014

It was Moved and Seconded,

that the Saturna Island Local Trust Committee direct staff to draft OCP bylaw amendments in acknowledgement and reconciliation of First Nations place, context and inherent rights.

Carried

Staff are now seeking direction from the LTC with respect to draft Bylaw No. 132, which is included as Attachment 1. The wording in Bylaw No. 132 mirrors what was presented to LTC on May 5, 2020.

The completed Islands Trust Policy Statement Checklist is included as Attachment 2.

The LTC also passed a resolution at the May 5, 2020 meeting directing staff to update timelines in the project charter. The updated charter is included as Attachment 3.

Additional project information, including previous staff reports, is located here:

<http://www.islandstrust.bc.ca/islands/local-trust-areas/saturna/projects-initiatives/first-nations-relationship-building/>

ANALYSIS

Regulatory

Islands Trust Policy Statement

The two most relevant policy statements in the Islands Trust Policy Statement are:

5.6 Cultural and Natural Heritage

5.6.2 *Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification, protection, preservation and enhancement of local heritage.*

5.6.3 *Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the preservation and protection of the heritage value and character of historic coastal settlement patterns and remains.*

The proposed bylaw amendment is consistent with these directives (see Attachment 3).

Official Community Plan

There are no specific policies in the OCP that speak directly to the proposed bylaw amendment. However, the amendment is consistent with the stated object of the policies of the OCP that seek to *preserve and protect the area's community and its environment and amenities through sustainable or limited use.*

The new wording is proposed to be inserted in the OCP immediately following **Part A - Introduction**, and preceding **A.1. Review Process for the Plan**. There will be no specific heading for the new section.

Land Use Bylaw

There are no impacts of the proposed OCP bylaw amendment on Saturna Island Land Use Bylaw No. 119, 2018 and no consequential amendments are required.

Islands Trust Reconciliation Action Plan

The proposed OCP amendment is consistent with the goals and objectives of the Islands Trust Reconciliation Action Plan 2019-2022; and is consistent with legislative objectives of the *Declaration on the Rights of Indigenous Peoples Act* Province of British Columbia.

Consultation

Statutory Requirements

In accordance with regular statutory requirements, a public hearing is required for any bylaw amendment and it is normal practice to hold a Community Information Meeting (CIM) prior to that.

It is recommended that LTC not proceed with a CIM and public hearing until formal referrals are complete and second reading is given to allow for the draft bylaw to be in as final form as possible.

LTC could choose to schedule the CIM in conjunction with the public hearing, which would be a reasonable approach given the proposed amendments are unlikely to raise significant community concerns or objections. Based on direction from LTC, staff will schedule a public hearing and CIM after second reading of the bylaw.

If the proposed changes advance to public hearing, the public hearing notice would be posted as per statutory and bylaw requirements in advance of the public hearing.

First Nations

Draft wording for potential inclusion within the OCP was provided to the following First Nations:

- BOŖÉĆEN (Pauquachin) First Nation
- MÁLEXEL (Malahat) Nation
- Scia'new (Beecher Bay) First Nation
- SEMYOME (Semiahmoo) First Nation
- SŖÁUTW (Tsawout) First Nation
- Tsawwassen First Nation

- T'Sou-ke Nation
- WJOLELP (Tsartlip) First Nation
- WSIKEM (Tseycum) First Nation

There was no response to the initial letter sent in October 2019. These First Nations will be provided amended draft wording as part of the formal bylaw referral process should LTC decide to proceed with first reading.

Other Referrals

Staff are proposing that the bylaw be referred to the following agencies, the LTC may wish to refer to additional agencies:

- Ministry of Municipal Affairs and Housing
- Ministry of Indigenous Relations & Reconciliation
- Mayne Island Local Trust Committee
- North Pender Island Local Trust Committee
- South Pender Island Local Trust Committee

Rationale for Recommendation

Based on the foregoing, the recommendation on page 1 is supported as:

- The recognition and acknowledgement of First Nations place, context and inherent rights within the OCP is consistent with the reconciliation objectives of the Islands Trust and the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP); as well as Bill 41 *Declaration on the Rights of Indigenous Peoples Act*;
- First Nations were provided draft OCP amendment wording via a referral letter sent in October 2019 and no responses were received;
- Giving first reading to the draft bylaw and another round of referrals that will help to further clarify First Nations and government agency perspectives with the proposed OCP amendment; and,
- Staff have made revisions to the wording provided to First Nations in October 2019, and thus it would be prudent to hold off on giving second reading to Bylaw 132 (along with scheduling a Community Information Meeting and Public Hearing) until formal referrals are completed.

ALTERNATIVES

1. Request further information

The LTC may request further information prior to directing staff to draft an OCP bylaw amendment. If selecting this alternative, the LTC should describe the specific information needed and the rationale for this request.

Resolution:

That the Saturna Island Local Trust Committee request that staff provide the following additional information:_____.

2. Undertake referrals prior to consideration of First Reading

The LTC may decide to direct staff to undertake referrals prior to consideration of First Reading/

Resolution:

That the Saturna Island Local Trust Committee direct staff to undertake referrals regarding Bylaw No. 132.

3. Direct revisions to the draft bylaw

The LTC may decide to direct staff to make revisions to the draft bylaw prior to consideration of First Reading.

Resolution:

That the Saturna Island Local Trust Committee direct staff to make the following revisions to draft Bylaw No. 132:_____.

4. Schedule a public hearing and CIM prior to giving bylaw second reading.

The LTC may request that staff schedule a public and CIM prior to giving the bylaw second reading.

Resolutions:

That the Saturna Island Local Trust Committee direct staff to schedule a Public Hearing for Bylaw No. 132.

That the Saturna Island Local Trust Committee direct staff to schedule a Community Information Meeting in conjunction with the Public Hearing for Bylaw No 132.

5. Receive for information

The LTC may receive the report for information.

6. Proceed no further with the project.

The LTC may decide to proceed no further with the project.

Resolution:

That the Saturna Island Local Trust Committee proceed no further with the First Nations Relationship Building project.

NEXT STEPS

Based on direction from the LTC, staff will:

- Proceed with bylaw referrals to First Nations and government agencies
- Prepare report summarizing results of referrals and recommended next steps (October LTC meeting)

Submitted By:	Brad Smith, Island Planner	June 29, 2020
Concurrence:	Robert Kojima, Regional Planning Manager	July 2, 2020

ATTACHMENTS

Attachment 1. Draft Bylaw No. 132

Attachment 2. Islands Trust Policy Statement Directives Checklist

Attachment 3. Updated project charter

DRAFT

SATURNA ISLAND LOCAL TRUST COMMITTEE BYLAW NO. 132

A BYLAW TO AMEND SATURNA ISLAND OFFICIAL COMMUNITY PLAN BYLAW NO. 70, 2000

The Saturna Island Local Trust Committee enacts in open meeting assembled as follows:

1. CITATION

This Bylaw may be cited for all purposes as “Saturna Island Official Community Plan Bylaw No. 70, 2000, Amendment No. 2, 2020”.

2. SCHEDULES

Saturna Island Official Community Plan No. 70, 2000 is amended as shown on Schedule 1, attached to and forming part of this bylaw.

3. SEVERABILITY

If any provision of this Bylaw is for any reason held to be invalid by a decision of any Court of competent jurisdiction, the invalid provision must be severed from the Bylaw and the decision that such provision is invalid must not affect the validity of the remaining provisions of the Bylaw.

READ A FIRST TIME THIS	DAY OF	20
PUBLIC HEARING HELD THIS	DAY OF	20
READ A SECOND TIME THIS	DAY OF	20
READ A THIRD TIME THIS	DAY OF	20
APPROVED BY THE EXECUTIVE COMMITTEE OF THE ISLANDS TRUST THIS	DAY OF	20
APPROVED BY THE MINISTER MUNICIPAL AFFAIRS AND HOUSING THIS	DAY OF	20
ADOPTED THIS	DAY OF	20

CHAIR

SECRETARY

**SATURNA ISLAND LOCAL TRUST COMMITTEE
BYLAW NO. 132**

SCHEDULE 1

The Saturna Island Official Community Plan No. 70, 2000, is amended as follows:

1. Schedule A of the Saturna Island Local Trust Committee Bylaw No. 70, cited as, “Saturna Island Official Community Plan Bylaw No. 70, 2000” is amended by inserting the following text immediately below Part A – Introduction and preceding A.1 Review Process for the Plan:

Coast Salish Peoples, including the W̱SÁNEĆ, have lived and resided on or near Saturna Island since time immemorial.

The history of Coast Salish Peoples is sustained in the language, place names, village sites, cultural and sacred sites that encompass the whole of the Islands Trust Area. Coast Salish Peoples have seen and lived the transformation of their lands and waters since contact. This tide of change has greatly impacted the eco-system that sustained them, and the cultural heritage of the first peoples of the Salish Sea. Coast Salish Peoples have and will continue to be a thriving people, government, and community, connected to the lands and waters through spiritual, cultural, and traditional knowledge for generations to come.

The W̱SÁNEĆ Peoples speak a language called SENĆOŦEN, and have a rich and vibrant economic, social, cultural, and spiritual life that is connected to these lands and waters. The lands and waters of the W̱SÁNEĆ Peoples is enriched with history, place names, village sites, cultural sites, and sacred sites and the islands and waters form the basis of their language, culture, and spiritual life within the Salish Sea.

Saturna Island is the location of the STÁUTW (Tsayout) First Nation and W̱SIKEM (Tseycum) First Nation reserve #7. The importance and inherent rights and jurisdiction that this area holds to the W̱SÁNEĆ Peoples continues now and into the future and the stewardship of these lands and waters for their children’s children endures.



Islands Trust

POLICY STATEMENT DIRECTIVES ONLY CHECK LIST

Bylaw and File No: 132 (OCP)
SA-6500-20 First Nations Relationship Building
LTC Endorsement:

PURPOSE

To provide staff with the Directives Only Checklist to highlight issues addressed in staff reports and as a means to ensure Local Trust Committee address certain matters in their official community plans and regulatory bylaws and Island Municipalities address certain matters in their official community plans and to reference any relevant sections of the Policy Statement.

POLICY STATEMENT

The Policy Statement is comprised of several parts. Parts I and II outline the purpose, the Islands Trust object, and Council's guiding principles. Parts III, IV and V contain the goals and policies relevant to ecosystem preservation and protection, stewardship of resources and sustainable communities.

There are three different kinds of policies within the Policy Statement as follows:

- Commitments of Trust Council which are statements about Council's position or philosophy on various matters;
- Recommendations of Council to other government agencies, non-government organizations, property owners, residents and visitors; and
- Directive Policies which direct Local Trust Committees and Island Municipalities to address certain matters.

DIRECTIVES ONLY CHECK LIST

The Policy Statement Directives Only Checklist is based on the directive policies from the Policy Statement (Consolidated April 2003) which require Local Trust Committees to address certain matters in their official community plans and regulatory bylaws and Island Municipalities to address certain a matters in their official community plans in a way that implements the policy of Trust Council.

Staff will use the Policy Statement Checklist (Directives Only) to review Local Trust Committee and Island Municipality bylaw amendment applications and proposals to ensure consistency with the Policy Statement. Staff will add the appropriate symbol to the table as follows:

- ✓ if the bylaw is **consistent** with the policy from the Policy Statement, or
- ✗ if the bylaw is **inconsistent (contrary or at variance)** with a policy from the Policy Statement, or
- N/A if the policy is not applicable.

Part III Policies for Ecosystem Preservation and Protection

CONSISTENT	NO.	DIRECTIVE POLICY
	3.1	Ecosystems
N/A	3.1.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification and protection of the environmentally sensitive areas and significant natural sites, features and landforms in their planning area.
N/A	3.1.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the planning, establishment, and maintenance of a network of protected areas that preserve the representative ecosystems of their planning area and maintain their ecological integrity.
N/A	3.1.5	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the regulation of land use and development to restrict emissions to land, air and water to levels not harmful to humans or other species.
	3.2	Forest Ecosystems
N/A	3.2.2	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the protection of unfragmented forest ecosystems within their local planning areas from potentially adverse impacts of growth, development, and land-use.
	3.3	Freshwater and Wetland Ecosystems and Riparian Zones
N/A	3.3.2	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address means to prevent further loss or degradation of freshwater bodies or watercourses, wetlands and riparian zones and to protect aquatic wildlife.
	3.4	Coastal and Marine Ecosystems
N/A	3.4.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the protection of sensitive coastal areas.
N/A	3.4.5	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the planning for and regulation of development in coastal regions to protect natural coastal processes.

PART IV: Policies for the Stewardship of Resources

CONSISTENT	NO.	DIRECTIVE POLICY
	4.1	Agricultural Land
N/A	4.1.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification and preservation of agricultural land for current and future use.
N/A	4.1.5	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the preservation, protection, and encouragement of farming, the sustainability of farming, and the relationship of farming to other land uses.
N/A	4.1.6	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the use of adjacent properties to minimize any adverse affects on agricultural land.

CONSISTENT	NO.	DIRECTIVE POLICY
N/A	4.1.7	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the design of road systems and servicing corridors to avoid agricultural lands unless the need for roads outweighs agricultural considerations, in which case appropriate mitigation measures shall be required to derive a net benefit to agriculture
N/A	4.1.8	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address land uses and activities that support the economic viability of farms without compromising the agriculture capability of agricultural land.
N/A	4.1.9	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the use of Crown lands for agricultural leases.
	4.2	Forests
N/A	4.2.6	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the need to protect the ecological integrity on a scale of forest stands and landscapes.
N/A	4.2.7	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the retention of large land holdings and parcel sizes for sustainable forestry use, and the location and construction of roads, and utility and communication corridors to minimize the fragmentation of forests.
N/A	4.2.8	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the designation of forest ecosystem reserves where no extraction will take place to ensure the preservation of native biological diversity.
	4.3	Wildlife and Vegetation
	4.4	Freshwater Resources
N/A	4.4.2	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address measures that ensure neither the density nor intensity of land use is increased in areas which are known to have a problem with the quality or quantity of the supply of freshwater, water quality is maintained, and existing, anticipated and seasonal demands for water are considered and allowed for.
N/A	4.4.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address measures that ensure water use is not to the detriment of in-stream uses
	4.5	Coastal Areas and Marine Shorelands
N/A	4.5.8	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the needs and locations for marine dependent land uses.
N/A	4.5.9	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the compatibility of the location, size and nature of marinas with the ecosystems and character of their local planning areas.
N/A	4.5.10	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the location of buildings and structures so as to protect public access to, from and along the marine shoreline and minimize impacts on sensitive coastal environments.
N/A	4.5.11	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address opportunities for the sharing of facilities such as docks, wharves, floats, jetties, boat houses, board walks and causeways.
	4.6	Soils and Other Resources
N/A	4.6.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the protection of productive soils.

PART V: Policies for Sustainable Communities

CONSISTENT	NO.	DIRECTIVE POLICY
	5.1	Aesthetic Qualities
N/A	5.1.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the protection of views, scenic areas and distinctive features contributing to the overall visual quality and scenic value of the Trust Area.
	5.2	Growth and Development
N/A	5.2.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address policies related to the aesthetic, environmental and social impacts of development.
N/A	5.2.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address any potential growth rate and strategies for growth management that ensure that land use is compatible with preservation and protection of the environment, natural amenities, resources and community character.
N/A	5.2.5	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address means for achieving efficient use of the land base without exceeding any density limits defined in their official community plans.
N/A	5.2.6	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification of areas hazardous to development, including areas subject to flooding, erosion or slope instability, and strategies to direct development away from such hazards.
	5.3	Transportation and Utilities
N/A	5.3.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the development of a classification system of rural roadways, including scenic or heritage road designations, in recognition of the object of the Islands Trust.
	5.3.5	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the impacts of road location, design, construction and systems.
N/A	5.3.6	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the designation of areas for the landing of emergency helicopters.
N/A	5.3.7	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the development of land use patterns that encourage establishment of bicycle paths and other local and inter-community transportation systems that reduce dependency on private automobile use.
	5.4	Disposal of Waste
N/A	5.4.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification of acceptable locations for the disposal of solid waste.

CONSISTENT	NO.	DIRECTIVE POLICY
	5.5	Recreation
N/A	5.5.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the prohibition of destination gaming facilities such as casinos and commercial bingo halls.

N/A	5.5.4	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the location and type of recreational facilities so as not to degrade environmentally sensitive areas, and the designation of locations for marinas, boat launches, docks and anchorages so as not to degrade sensitive marine or coastal areas.
N/A	5.5.5	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification of sites providing safe public access to beaches, the identification and designation of areas of recreational significance, and the designation of locations for community and public boat launches, docks and anchorages.
N/A	5.5.6	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification and designation of areas for low impact recreational activities and discourage facilities and opportunities for high impact recreational activities.
N/A	5.5.7	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the planning for bicycle, pedestrian and equestrian trail systems.
	5.6	Cultural and Natural Heritage
✓	5.6.2	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the identification, protection, preservation and enhancement of local heritage.
✓	5.6.3	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address the preservation and protection of the heritage value and character of historic coastal settlement patterns and remains.
	5.7	Economic Opportunities
N/A	5.7.2	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address economic opportunities that are compatible with conservation of resources and protection of community character.
	5.8	Health and Well-being
N/A	5.8.6	Local Trust Committees and Island Municipalities shall, in their official community plans and regulatory bylaws, address their community's current and projected housing requirements and the long-term needs for educational, institutional, community and health-related facilities and services, as well as the cultural and recreational facilities and services.

POLICY STATEMENT COMPLIANCE	
✓	COMPLIANCE WITH TRUST POLICY
	NOT IN COMPLIANCE WITH TRUST POLICY for the following reasons:

First Nations Relationship Building - Charter v3

Saturna Island Local Trust Committee

Date: May 27, 2020

Purpose: To continue to build meaningful relationships with First Nations with an interest in Saturna Island.

Background: The Saturna Local Trust Committee (LTC) initiated a project as one of their top priorities to allow for a project that facilitates a long term First Nations relationship building program that reflects a thriving and sustainable relationship with First Nations.

At present Saturna LTC wishes to bring OCP language up to date to be inclusive of reconciliation and First Nations acknowledgement and understanding. In support of the principles of United Nations Declaration of the Rights of Indigenous Peoples (UNDRIP) and the Truth and Reconciliation Commission of Canada (TRC).

Objectives

- Amend Saturna OCP to reflect First Nations presence on Saturna Island, as per the Islands Trust Reconciliation Declaration.

In Scope

- Research First Nations History on Saturna Island with the goal of preparing mapping and place names recognition
- Prepare text amendments to the OCP recognizing First Nations acknowledgement on Saturna Island

Out of Scope

- Research and comment on First Nations heritage designations
- Extraordinary research
- Land Use Bylaw amendments
- Initiate a process with CRD to discuss on-island signage

Workplan Overview

Deliverable/Milestone	Date
1) Research First Nations wording in other OCPs	Sep 2019—Apr 2020
2) Prepare draft OCP First Nations Language for review	May 2020
3) Prepare report, recommended OCP amendments, and referrals to First Nations	Jun—Aug 2020
4) Schedule a CIM	Sep 2020
5) Prepare draft OCP amendment bylaw and final staff report for LTCs consideration	Oct 2020
6) Public hearing for OCP amendment bylaw	Nov 2020

Project Team

<i>Smith, Island Planner</i>	Project Manager
Lisa Wilcox	Senior Intergovernmental Policy Advisor
Jas Chonk	Admin Support
Maple Hung	Admin Support

RPM Approval:

Robert Kojima

Date: July 10, 2019

LTC Endorsement:

Resolution #: SA-2019-044

Budget

Budget Source: 20-21 Fiscal—Saturna LTC

Fiscal	Item	Cost (\$)
2020-21	First Nations Engagement	1000
2020-21	Public Hearing	1500
	Contingency	500
	Total	3000.00

Top Priorities Report

Saturna Island

1. *First Nations Relationship Building*

Responsible

Dates

Review of OCP to include references to First Nations.
 Project Charter endorsed July 18, 2019
 Letter Sent to First Nations as per Project Charter
 Update to be given at February 14, 2020 LTC meeting.
 Staff to continue working with First Nations.

Rec'd: 16-Sep-2016

2. *Groundwater Sustainability Project*

Responsible

Dates

Phase 1: Mapping and data analysis
 update to be given at February 14, 2020 LTC meeting

William Shulba

Rec'd: 09-May-2019
 Target: 31-Mar-2020

3. *Review and amendment of Zoning and OCP Designations on National Park Reserve Lands*

Responsible

Dates

Prepare OCP and LUB amendments for the LTCs consideration of first reading

Brad Smith

Rec'd: 24-Oct-2019

Projects Report

Saturna Island

1. <i>Shoreline Review</i>	Responsible	Date Received
		17-Jun-2016
2. <i>Amenity Zoning and Accessible Housing Review</i>	Responsible	Date Received
		04-Oct-2018
3.	Responsible	Date Received
Review of drinking water regulations		18-Jul-2019
4.	Responsible	Date Received
Secondary suites - potable water source		18-Jul-2019
5. <i>Watershed Lands - DPA</i>	Responsible	Date Received
		18-Jul-2019



Applications

Agricultural Land Reserve

File Number	Applicant Name	Date Received	Purpose
SA-ALR-2019.1	Money, John	13-Aug-2019	Application for a boundary adjustment subdivision in the ALR
Planner: Brad Smith			
Planning Status			
<u>Status Date:</u> 26-Jun-2020			
ALC has denied application - applicant considering options			
<u>Status Date:</u> 29-May-2020			
ALC has indicated that application is now pending review - deadline for submission of additional info May 12.			
<u>Status Date:</u> 06-Nov-2019			
Staff forwarded application to ALC.			

Development Permit

File Number	Applicant Name	Date Received	Purpose
SA-DP-2020.1	Hall, Ronald	23-Jun-2020	206 Narvaez Bay Road - Application for a DP in a protection area.
Planner: Brad Smith			
Planning Status			
<u>Status Date:</u> 24-Jun-2020			
Fees recieved			
<u>Status Date:</u> 23-Jun-2020			
PTA created file, waiting for fees.			



Applications

Rezoning

File Number	Applicant Name	Date Received	Purpose
SA-RZ-2018.1	Ronald Hall & Saturna Garage and Contracting	15-Jan-2018	Application to amend the OCP and LUB to rezone two properties.

Planner: Brad Smith

Planning Status

Status Date: 07-May-2020

New Planner will follow-up with applicant to confirm status of file

Status Date: 18-Oct-2018

Adoption on hold pending direction from applicant to proceed with consideration

Status Date: 23-Sep-2018

Bylaws approved by executive committee.

Subdivision

File Number	Applicant Name	Date Received	Purpose
SA-SUB-2017.1	RONALD H HALL	22-Nov-2017	Referral of a subdivision to create one new lot.

Planner: Brad Smith

Planning Status

Status Date: 26-Jun-2020

Applicant has submitted development permit application as per OCP requirement for DPA 2 Bluffs

Status Date: 07-May-2020

New Planner will follow-up with applicant to confirm status of file

Status Date: 18-Nov-2019

PTA was notified that the BC Hydro response letter is the only one outstanding as per MoTi (Owen Page).



Applications

Subdivision

File Number	Applicant Name	Date Received	Purpose
SA-SUB-2018.1	RONALD HALL	01-Feb-2018	Referral of a subdivision to create one new lot.

Planner: Brad Smith

Planning Status

Status Date: 07-May-2020

New Planner will follow-up with applicant to confirm status of file

Status Date: 06-Apr-2018

Staff sent response to MoTI April 4, 2018.

Status Date: 15-Feb-2018

Fees received, notified LTC, gave file to Planner.

File Number	Applicant Name	Date Received	Purpose
SA-SUB-2018.2	JORDAN ELLIOT	06-Jun-2018	105 Payne Road - referral of boundary adjustment subdivision

LITKE c/o POLARIS
LAND SURVEYING

Planner: Brad Smith

Planning Status

Status Date: 07-May-2020

New Planner will follow-up with applicant to confirm status of file

Status Date: 30-Oct-2018

Response sent to MOTI Oct 30, 2019.

Status Date: 23-Jul-2018

Emailed scanned letter, receipt and cheque to Applicant, mailed originals; emailed Subd Ref Review application to LTC cc Planner and MoTI. Gave folder to Planner.



Applications

Subdivision

File Number	Applicant Name	Date Received	Purpose
SA-SUB-2020.1	Nepenthe Holdings Limited	13-Mar-2020	Lot 3, Section 18, Saturna Island, Cowichan District, Plan 11979 Except Part in Plan 17076 - Referral of a subdivision application for proposed 3 lots.
Planner: Brad Smith			
Planning Status			
Status Date: 26-Jun-2020 Fees paid - file opened			
Status Date: 16-Jun-2020 PTA emailed applicant - have not heard back or received fees yet.			
Status Date: 16-Apr-2020 Emailed the applicant once again regarding his payment, have not received his e-transfer yet.			

Islands Trust
LTC EXP SUMMARY REPORT F2021
Invoices posted to Month ending May 2020

660 Saturna	Invoices posted to Month ending May 2020	<u>Budget</u>	<u>Spent</u>	<u>Balance</u>
65000-660	LTC "Trustee Expenses"	191.00	0.00	191.00
LTC Local				
65200-660	LTC - Local Exp - LTC Meeting Expenses	2,118.00	250.65	1,867.35
65210-660	LTC - Local Exp - APC Meeting Expenses	352.00	0.00	352.00
65220-660	LTC - Local Exp - Communications	250.00	0.00	250.00
65230-660	LTC - Local Exp - Special Projects	294.00	0.00	294.00
TOTAL LTC Local Expense		<u>3,014.00</u>	<u>250.65</u>	<u>2,763.35</u>
Projects				
73001-660-4077	Saturna First Nations Relations	2,000.00	0.00	2,000.00
73001-660-4110	Saturna National Park Zoning	2,000.00	0.00	2,000.00
TOTAL Project Expenses		<u>4,000.00</u>	<u>0.00</u>	<u>4,000.00</u>

Standing Resolutions Log

Saturna Island

Resolution Number	Action	Date
2020-006 (Standing) Whereas the waters of the Saturna Island Local Trust area extend to the US border in Boundary Pass and Georgia Strait, the Saturna Island Local Trust Committee resolves that in the waters of the Local Trust area commercial whale watching boats be regulated and or licensed to mirror the regulatory regime under development in the adjacent waters of Washington State.	Carried	14-Feb-2020
2020-005 (Standing) Be it resolved that the Saturna Island Local Trust Committee fully supports the interim sanctuary zone for the recovery of Southern Resident Killer Whales (SRKW) in the waters of the Saturna Island Local Trust Area.	Carried	14-Feb-2020
2019-047 (Standing) Be it resolved that in the waters of the Saturna Local Trust Area we support large commercial vessel speed reduction initiatives as part of the Southern Resident Killer Whale 2019 Conservation agreement signed between Canada and shipping industry stakeholders. We acknowledge voluntary speed reduction efforts in the Local Trust Waters and view the requirement to reduce transit speeds in support of SRKW recovery to be the equivalent of a voluntary bylaw in the Saturna Local Trust Area.	Carried	18-Jul-2019
2019-036 (Standing) that the Saturna Island Local Trust Committee only authorize enforcement against unlawful short term vacation rentals, unless one of the following circumstances exists: 1. There is more than one complainant from the immediate neighbourhood; 2. The complaint is made by a representative of an improvement district and it concerns overuse of water; 3. The complaint concerns use of a common driveway servicing at least two separate lots; 4. There is a written complaint by owners or residents in the immediate neighbourhood about bona fide nuisance issues such as noise or parking congestion related to the STVR.	Carried	09-May-2019

Standing Resolutions Log

Saturna Island

Resolution Number	Action	Date
2019-011 (Standing) that the Saturna Island Local Trust Committee directs staff to take enforcement action against unlawful dwellings only if one of the following conditions exists: There is a complaint from an immediate neighbour; or there is a referral from an agency responsible for health and safety issues that is doing concurrent enforcement. Nothing in this enforcement policy should be interpreted as giving permission to violate the Land Use Bylaw and the Saturna Island Local Trust Committee may change this policy at any time and may give direction to expand enforcement activities at any time.	Carried	17-Jan-2019
2018-050 (Standing) - Proposed or amended licenses for non-medical cannabis retail establishments require an application to the local trust committee. - The application process shall comprise a public consultation component, which includes at least one notification to neighbours, one public meeting, posting of public notices and one advertisement in a local periodical. - The public consultation process shall be determined by the local trust committee after initial review of the proposal. - However, as a minimum, the local trust committee will mail or otherwise deliver a notice to all owners and residents of properties within a 500 metre radius of the subject property where the establishment is proposed at least 10 days before adoption of a resolution providing comment on the application. The required notice shall include the following information: - o Name of the applicant and a description of the proposal in general terms - o The location of the proposed establishment and the subject site - o The place where, and date and time when, both a public meeting will be held and a resolution of the local trust committee considered. - o The name and contact information of the Islands Trust planning staff member who can provide copies of the proposed or amended license application - o How public comments may be submitted to the local trust committee.	Carried	04-Oct-2018

Standing Resolutions Log

Saturna Island

Resolution Number	Action	Date
2012-011 (Standing)	Carried	09-Feb-2012
It was Moved and Seconded that where a Liquor Control and Licensing Branch Special Occasion License referral relates to a property where Saturna Island Land Use Bylaw No. 78, 2002 permits public assembly uses, such as halls, recreation facilities or restaurants, and where there have been no issues related to parking or past complaints for the preceding three years, planning staff may approve the Special Occasion License without referral to the Local Trust Committee. All other Special Occasion License referrals are to be referred to the Local Trust Committee for consideration		
2011-000 (Standing)	Carried	22-Jun-2011
It was Moved and Seconded that the Saturna Island Local Trust Committee adopt a Standing Resolution to direct staff to place the in camera minutes on the agenda when there is a need to close the meeting or at least once a year.		
2009-009 (Standing)	Carried	25-Feb-2009
It was Moved and Seconded that the Saturna Island Local Trust Committee draft minutes be adopted by Resolution without meeting within 30 days of the meeting and posted to the website.		



Standing Resolutions Log

Saturna Island

Resolution Number	Action	Date
2007-016 (Standing)	Carried	16-May-2007
It was Moved and Seconded that staff be directed to not take enforcement action against property owners when a travel trailer or camper is located on a lot when: - The travel trailer or camper is being used for recreational purposes by the owners of the lot and; - The travel trailer or camper is being used intermittently and for short periods not exceeding two months. Notwithstanding this direction, staff is to take action to prevent the recreational use of travel trailers or campers on inappropriately zoned land if: - The travel trailer or camper is being used as a second residence or; - The trailer or camper is situated within the setbacks for a structure or; - There are serious safety issues, unsightliness, noise, or health problems related to the use or; - A complaint based on the above three items is received from a person who owns neighboring property. Nothing in this direction should be interpreted by a property owner as giving permission to violate the Land Use Bylaw and the Saturna Island Trust Committee may change this policy at any time and may give direction to enforce the Bylaw at any time.		



Islands Trust Conservancy Report to Local Trust Committees and Bowen Island Municipality May, 26 2020

Islands Trust Conservancy Board News

Island Trust Conservancy (ITC) conducted its first public, electronic Zoom meeting as a means of reducing contact during the COVID-19 pandemic. The ITC Board was informed of staff work transitions resulting from the novel virus. All information about ITC's response to COVID-19 is posted to the Islands Trust and Islands Trust Conservancy websites.

Regional Conservation Plan Updates

The science-based and community-informed Regional Conservation Plan guides the work of ITC. The ITC continues to work towards four long-term goals and 25 objectives that further conservation in the entire Trust Area. For more information, visit www.islandstrustconservancy.ca/media/84821/itc_2018-11_rcp-2018-2027-web_final.pdf.

Goal 1 – Science-based Conservation Planning

The ITC Board received the *Climate Projections for Islands Trust Area* report http://www.islandstrustconservancy.ca/media/84991/itc_climateprojectionsreport_final.pdf and approved a Climate Change Project Charter.

ITC staff collaborated with Local Planning Services on the Contiguous Forest Mapping Project. The information was received by Trust Council at its June meeting.

Goal 2 – Strong relationships with First Nations

The ITC Board considered revisions to its Vision Statement to reflect its Reconciliation Declaration. The Board directed staff to bring further revisions to a future meeting and requested that staff also bring the ITC Mission Statement concurrently for consideration.

A/Manager Emmings gave an overview of the staff reconciliation retreat on May 7, 2020 and indicated that staff will meet in the near future to continue to integrate actions into work plans that reflect the Conservancy's commitment to its Reconciliation Declaration.

Goal 3 – Protection of core conservation areas

Property Management

Annual monitoring activities are delayed due to COVID-19. Staff are planning for a reduced monitoring season to accommodate travel restrictions, but visits to most properties will occur.

The ITC Board directed staff to prepare a budget request for the 2021-2022 fiscal year to address management of wildfire risks on ITC conservation properties.

The ITC Board approved nature reserve management plans on Denman Island (see island updates below).

Land Acquisition and Covenants

The ITC Board approved a Natural Area Protection Tax Exemption Program conservation proposal for North Pender Island (see island updates below).

Goal 4 – A strong voice for nature conservation

The ITC Board received a briefing on 30th Anniversary activities. The Islands Trust Conservancy's 30th Anniversary plans will highlight accomplishments and focus on the future and biodiversity.

ITC conservation covenant landowners received the *Caring for Your Conservation Covenant* newsletter and a 'Communications and Engagement Questionnaire'.

ITC, in collaboration with the Coastal Douglas-fir and Associated Ecosystems Partnership (CDFCP), Raincoast Conservation Foundation, and several island conservancies, produced forest ecosystem information sheets for each local trust area. These will be mailed out to 375 owners of forested land in the early summer.

The ITC Board approved its 2019-2020 financial statement and text for its Annual Report and considered a draft agenda for the July 14th ITC / Executive Committee liaison meeting.

Activities by Local Trust Area/Island Municipality

Denman – The ITC Board approved the 2020 updates of the Inner Island Nature Reserve Management Plan and the Lindsay Dickson Nature Reserve Management Plan. The Board also approved the first Valens Brook Nature Reserve Management Plan. Once approved by conservation partners, these will be posted to the Islands Trust Conservancy website at <http://www.islandstrustconservancy.ca/protected-places/caring/>.

The ITC Board approved a \$5,000 Opportunity Fund Grant for the Denman Conservancy Association. Opportunity Fund information is available at <http://www.islandstrustconservancy.ca/initiatives/supporting-local-land-trusts/opportunity-fund-grants/>

Gabriola - Invasive species were managed in Elder Cedar Nature Reserve and one conservation covenant on Gabriola Island.

Galiano - Invasive species were managed in one conservation covenant on Galiano Island.

North Pender – ITC approved a conservation proposal to place a NAPTEP covenant on 3.99 ha on Clam Bay Road, North Pender Island.

Salt Spring - Invasive species were managed in three conservation covenants on Salt Spring Island.

Please feel free to contact the Islands Trust Conservancy for more details.

Kate-Louise Stamford, Chair kstamford@islandstrust.bc.ca

Islands Trust Conservancy itcmail@islandstrust.bc.ca

REQUEST FOR DECISION

To: Trust Council **For the Meeting of:** June 16, 2020
From: Local Planning Committee **Date Prepared:** June 11, 2020
SUBJECT: Contiguous Forest Mapping Project

RECOMMENDATION:

That the Trust Council circulate the “Contiguous Forest Mapping in the Islands Trust Area Report” prepared by Cabin Forestry Ltd, and the “Map Book, Forest Ecosystems in the Islands Trust” to local trust committees and Bowen Island Municipality for information.

CHIEF ADMINISTRATIVE OFFICER’S COMMENTS:

This work is undertaken at the direction of the Local Planning Committee and in cooperation with the Islands Trust Conservancy, and the Coastal Douglas-fir and Associated Ecosystems Conservation Partnership (CDFCP). The completion of this work fulfils Trust Council Strategic Plan Strategy No. 1, and provides material for undertaking Strategy No. 2.

1 PURPOSE:

To present the results of the contiguous forest mapping project requested and funded by the Islands Trust Local Planning Committee.

2 BACKGROUND:

At its regular business meeting on June 11, 2020, the Local Planning Committee passed the following two resolutions:

That the Local Planning Committee request that Staff develop a Project Charter, budget, scope and timeline creation of model development permit areas for Local Trust Committee-Bowen Island Official Community Plans bylaws to protect Coastal Douglas-fir zones throughout the Trust Area, and information from upcoming delegation to TC and work being done on salt spring island be incorporated into the project.

That the Local Planning Committee forward the “Contiguous Forest Mapping in the Islands Trust Area Report” prepared by Cabin Forestry Ltd, and the “Map Book, Forest Ecosystems in the Islands Trust” to Trust Council with a recommendation to circulate to local trust committees and Bowen Island Municipality for information.

The Islands Trust and Islands Trust Conservancy (ITC) are working to advance Coastal Douglas-fir (CDF) protection throughout the Islands Trust Area, and to prioritize protection of remaining areas of contiguous forest cover.

In August, 2019, the Local Planning Committee passed resolution 2019-016:

That the Local Planning Committee direct staff to spend up to \$15,000 to map contiguous tracks of the Coastal Douglas-fir zone and its associated ecosystems in partnership with the Coastal Douglas-fir and Associated Ecosystems Conservation Partnership (CDFCP).

Islands Trust staff worked with Islands Trust Conservancy Staff to contract, through a competitive process, Cabin Forestry Ltd. to conduct this work. The project objective was to map patches of connected forest across the full extent of the Islands Trust Area, including all islands and islets, with a goal of identifying important areas of contiguous forest for protection.

The A/Manager and A/Ecosystem Protection Specialist worked closely with planning staff and the contractor to develop appropriate methodology to identify contiguity and to determine 'quality' or ability of patches to provide ecosystem functions. At draft stages planners were engaged to ensure that the final map products are suitable to inform their work and to meet the needs of the Local Planning Committee.

The final product consists of a report, a series of maps, and spatial data that can be integrated with our existing TAPIS mapping, to be used by planners and other Islands Trust and ITC staff.

This work completes Trust Council Strategic Plan Strategy No 1:

Map contiguous tracks of the Coastal Douglas fir zone (CDF) and associated ecosystems to aid in protection of that zone and its associated ecosystems.

The work also informs Trust Council Strategic Plan Strategy No. 2:

Create a model development permit for Local Trust Committee-Bowen Island Official Community Plans bylaws to protect Coastal Douglas fir zones throughout the Trust Area

Work won Strategy 2 is envisioned to occur in Fiscal Year 2021/22, and as such a budget and Project Charter has not been created for this work.

3 IMPLICATIONS OF RECOMMENDATION

ORGANIZATIONAL:

No implications.

FINANCIAL:

Consideration of budget for FY2021/22 to include work on Strategic Plan Strategy No. 2

POLICY:

Consistent with Islands Trust Council Strategic Plan.

IMPLEMENTATION/COMMUNICATIONS:

Staff will forward copies of the report and maps to local trust committees and Bowen Island Municipality.

FIRST NATIONS:

No implications.

OTHER:

No other implications.

4 RELEVANT POLICY(S):

2.3.1 Council Committees policy

2.3.2 Local Planning Committee Terms of Reference

6.2.1 Priority Setting/Review guidelines

5 ATTACHMENT(S):

- 1 *Contiguous Forest Mapping in the Islands Trust Area*, report prepared by CABIN Forestry Ltd, March 2020.
- 2 Map Book, *Forest Ecosystems in the Islands Trust*, containing maps for each Trust Area (low resolution attached, high resolution maps available).

RESPONSE OPTIONS

Recommendation:

That the Trust Council circulate the “Contiguous Forest Mapping in the Islands Trust Area Report” prepared by Cabin Forestry Ltd, and the “Map Book, Forest Ecosystems in the Islands Trust” to local trust committees and Bowen Island Municipality for information.

Alternative:

As directed by Trust Council.

Prepared By: David Marlor, Director, Local Planning Services

Reviewed By/Date:

Contiguous Forest Mapping in the Islands Trust Area

Prepared by:

Cabin Resource Management
Unit 20A - 100 Kalamalka Lake Road
Vernon, BC V1T 9G1

For:

Islands Trust
200 - 1627 Fort Street
Victoria, BC V8R 1H8



Islands Trust



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1.0 Executive Summary

Cabin Resource Management was hired by the Islands Trust to map contiguous forest patches in consultation with the Islands Trust Conservancy (ITC). The goal of the mapping exercise was to identify contiguous forest patches within the Islands Trust Area in order to provide the Islands Trust with information to underpin policy, regulatory and legal conservation tools that protect Coastal Douglas-fir forests and their associated ecosystems. This mapping was identified as an essential step in the Islands Trust's report titled ["Protecting the Coastal Douglas-fir Zone & Associated Ecosystems: An Islands Trust Toolkit."](#)

After the initial proposal of using overlays of Terrestrial Ecosystem Mapping (TEM) and disturbance layers in a Geographic Information System (GIS), various subsequent analyses were evaluated by the project team and members of the ITC staff. Consultation with ITC staff was focused on the identification of ecological values and careful consideration of the geographic scale of the planning activities that would be informed by the resulting product. Following the identification of the ecological parameters, Islands Trust staff provided input on the draft mapping products and these products were adjusted to reflect planning needs. The resulting maps and data sets show the distribution of forested ecosystems in the Islands Trust Area, differentiating between established forests and forested ecosystems in earlier structural stages; a stand quality rating was calculated considering low or high intensity of effects based on road density and structure locations.

2.0 Background Information

The Islands Trust and the Coastal Douglas-fir and Associated Ecosystems Conservation Partnership have emphasized the protection of Coastal Douglas-fir (CDF) and associated ecosystems in order to maintain their unique ecological value and the numerous ecosystem services they provide. Mapping of the CDF and associated ecosystems is essential to the establishment of conservation priorities and the administration of regulatory tools such as zoning and Development Permit Areas (DPAs) which can serve to protect these values.

3.0 Approach and Rationale

Through consultation with the ITC, a constraints mapping and inventory approach¹ was taken to identify and map contiguous forest patches. The patches were subsequently ranked by the presence and the type of disturbance within the forested area. The consultation

¹ Constraints mapping is used in land use planning to minimize negative effects to a landscape and to identify areas of high or low sensitivity. Areas of constraint are present when there is higher potential for environmental impact or where there are high value natural resources (e.g. older forest).

process focused strongly on accurate problem definition and avoiding the incorporation of implicit biases in the model design.

TEM polygons were chosen as the basic spatial unit of the analysis. Each TEM polygon has a defined spatial boundary and unique attributes. The individual polygons provide spatially explicit information that describes the distribution of ecological features on the landscape. These TEM polygons can be aggregated to larger patch sizes composed of sets of polygons which share common attributes. Where these attributes define a forested ecosystem, the aggregated set of adjacent units may form a contiguous area where boundaries are shared. At the landscape level, defined by islands, the aggregated patch size is an informative metric. For instance, this can tell us how much recruitment stage forest is present versus established forest for an island. While large aggregated polygons may store a quantitative summary of their individual TEM components, any variation within the patch cannot be shown on the maps. The value of maintaining TEM polygons as intact spatial units is that their boundaries and attributes are defined by a standard process and the attributes can be queried to provide more information than is symbolized in map layouts.

In ranking contiguous forest patches, proposed approaches included evaluation of patch size, and defining interior versus edge affected patches. Much of the relevant literature regarding contiguity and continuity of forested ecosystems focuses on large fauna, most of which are absent from the Islands Trust study area. The chosen approach did not use contiguity criteria from any specific animal species to limit the spatial distribution of forested ecosystems as the use of such criteria risked de-valuing or excluding patches that did not meet the criteria for that particular species. For instance, it was recognized during modelling parameter discussions that if a minimum patch size criterion was set, it would discount small patches that otherwise provide important refuge for many wildlife species. Likewise, a similar result would be realized if only "interior forest" patches set back from the forest edge were considered high-quality or included in the final data set.

The following analyses were undertaken to describe the forested components of the Islands Trust land base:

1. Use of Terrestrial Ecosystem Mapping: TEM was acquired by the ITC between 2007 and 2011 and was updated in 2017. The TEM formed the basis of both the disturbance layers generated in this analysis and the classification of contiguous forest patches. TEM polygons are based on air-photo interpretation at 1:10,000 to 1:20,000 scale and field sampling. Each polygon has attributes that indicate the ecosystems types (site units) within the polygons, their relative representation and attributes such as structural stage. Anthropogenic features are also attributed as unique Map Codes in the TEM (*Standard for Terrestrial Ecosystem Mapping in British Columbia*, 1998).

2. Incorporation of disturbances into analyses: Provincial road and structure location data sets were used to augment the information contained in the TEM. Because of the significant investment in TEM mapping made by the Islands Trust and the ecological merits of the data, it was intended that the integrity of that data set be preserved in any data products resulting from the subsequent analysis. As such, information was added to the polygon framework of the TEM without modifying the TEM polygons spatially. The approach was first subtractive, removing anthropogenically modified sites on the landscape. The threshold for anthropogenic disturbance was set at 20%. The assumption was made that above this threshold the value of ecological communities would decrease in response to losses of habitat availability. This threshold is consistent with the low-risk target for maintaining habitat representation across a Coastal Douglas-fir landscape described in *Conservation Planning in the Coastal Douglas-fir Ecosystem* (Holt, 2007). Natural non-forest ecosystems were then removed from the data set, and impacts on the remaining forested area were identified.

Road presence was determined to be a negative impact on the score of patch quality where it occurred above a linear density threshold. Unless they were greater than 20% of a polygon in the original TEM, roads were not considered to break contiguity of forest patches. The presence of roads is generally considered to affect both plant and animal communities. The impacts may include the avoidance of roads by certain species, direct mortality of species, as well as negative effects associated with the use of roads by humans and the increased colonization of habitat by invasive plant species. The general effects of roads on large vertebrate population at the landscape scale is well supported, however site-level effects on specific species may be more difficult to generalize (USFS, 2001). The threshold at which road density affects animal populations varies widely by species, with estimates ranging from 0.36 - 1.9 km/km² for large mammals and avoidance distances ranging from 35 m for salamanders and 300 m for deer (Robinson et al, 2010). These effects may be due to either presence of the infrastructure or motor vehicle traffic. Road features that were considered infrequently used by the public, or that were designated for non-motorized use only, were excluded from the analysis. Polygons with road densities greater than 1 km/km² were considered high road density polygons, and this layer was included in patch quality analysis.

Structure location point density was classified using the Jenks natural breaks classification method. Where structure location points occurred at high densities in TEM polygons, the TEM polygons were classified as anthropogenic non-forest sites. At low structure densities, the forest ecological quality of TEM polygons was reduced. This procedure attempted to fill gaps in the disturbance mapping present in the TEM.

The potential edge effects created by structures location points were not quantified because they did not bisect polygons and were not always visible in aerial photos. The low-density structures were not considered to have equivalent effects to road edges but may still cause lesser edge effects which are not accounted for in the analysis.

3. "Naturalness" was classified: Forest patches were described using a three-class system representing their relative "naturalness". All forest ecosystems were retained in the analysis.
4. Identification of areas with restoration potential: The final forest polygon layer was divided into early and late structural stage classes. The purpose of this was to identify polygons that have not matured into the "young forest" stage but have the potential to increase in structural complexity as they age.

4.0 Analysis Procedure

1. TEM Disturbance Mapping
 - a) Non-forest polygons were identified in the TEM. Non-forest attributes are indicated by a '00' code in the Site Series field. Polygons which represented 20% or greater non-forest area were identified.
 - b) Non-forest polygons with 20% or greater anthropogenic disturbance were identified. Polygons with Map Codes corresponding to the following definitions were flagged: 'Cultivated Field', 'Cultivated Orchard', 'Cultivated Vineyard', 'Exposed Soil', 'Golf Course', 'Gravel Pit', 'Industrial', 'Pasture', "Reservoir", 'Road Surface', 'Rural Development', 'Transmission Line', 'Urban/Suburban'.
2. Additional Disturbance Calculation
 - a) The Structure Point data set from the BC Wildfire Service was used to identify structures which were not present in the TEM data used above.
 - i. The structure density per TEM polygon was calculated as the number of structures within each polygon boundary divided by the polygon area in hectares. The resulting data were classified using Jenks breaks, rounded to the nearest whole number.

Range	Class	Non-Forest Polygon
<=1	1	NO
>1, <=4	2	NO

>4, <=9	3	YES
>9, <=21	4	YES
>21, <=86	5	YES

- ii. Polygons with a structural density of Class 3 or higher were considered to have anthropogenic modification equivalent to the anthropogenic map codes identified above and were removed from the forested area. Class 2 was considered to have a lesser influence on the forested ecosystem and were considered in the classification of forest ecosystem quality below. Class 1 was considered to have a negligible effect.
- b) Roads from the Digital Road Atlas were used to identify additional linear disturbance not represented in the TEM.
 - i. Roads that were classified as 'driveway', 'pedestrian', 'recreation', 'restricted' and 'resource' were removed from the analysis.
 - ii. The linear density of roads within each polygon was calculated by dividing the total length of all road segments within each polygon by the area of the enclosing polygon.
 - iii. The resulting data were grouped into two classes – 'High' and 'Low' where road density was greater than 1 km / km² and less than or equal to 1 km / km². The polygons with high road density classes were considered to have an influence on forested ecosystems and were not excluded from the forested area but were used in rating forest ecosystem quality.

3. Forest Patch Classification

- a) Forested polygons were divided into two classes. For each TEM polygon 'Established Forest' was identified where the Structural Stage was greater than 4 in at least 50% of the combined deciles of the polygon. The remaining forested polygons were classified as 'Recruitment Forest'.
- b) The 'naturalness' of each forested polygon was rated using the following criteria ranking disturbance:

Disturbance	Modifier
No Disturbance	0
Road Class High	-1
Road Class Low	0
Structure Class 2	-1

Structure Class 1	0
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- c) The cumulative disturbance scores were represented by the following patch quality classes:

Map Class	Disturbance Level	Score
3	Low	0
2	Moderate	-1
1	High	-2

5.0 Results

Forest mapping in the Islands Trust reveals highly variable spatial patterns of forest distributions between islands. Visual interpretation of the data shows corridors between larger contiguous patches, the dominance of stands in the recruitment stage of their growth, and different matrices of forest patches and disturbances. For instance, the mapping of Bowen Island shows corridors between large established forest patches with relatively undisturbed interiors (Figure 1). Whereas the mapping of northern portion of Salt Spring Island shows a more diffuse distribution of smaller patches of different quality and structural stage classes (Figure 2). Another unique pattern is observed on North Pender where Class 1 mature forest is sparsely distributed within an anthropogenically dominated landscape (Figure 3). Many islands show a combination of these patterns. Complete map layouts for the local trust areas are appended to this document and are available in digital form.

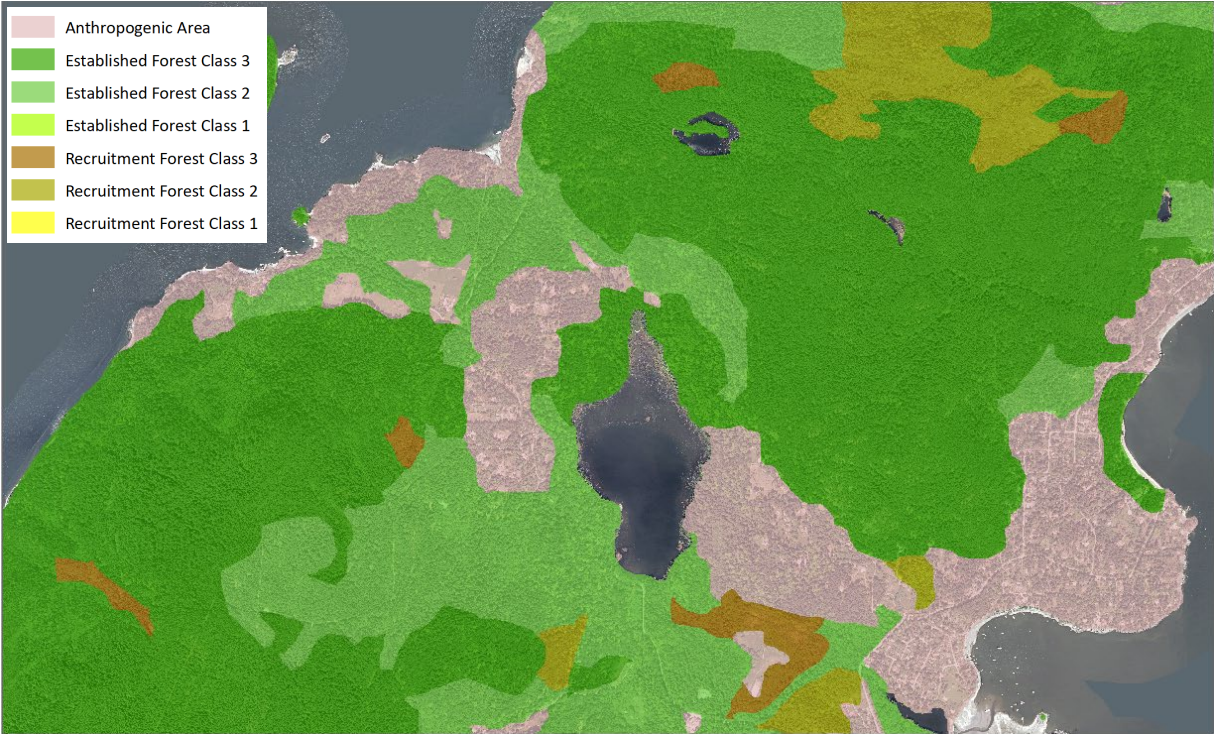


Figure 1. Corridors connecting large established forest areas on Bowen Island.



Figure 2. Diffuse patches of forested ecosystems in different structural stages on Salt Spring Island.

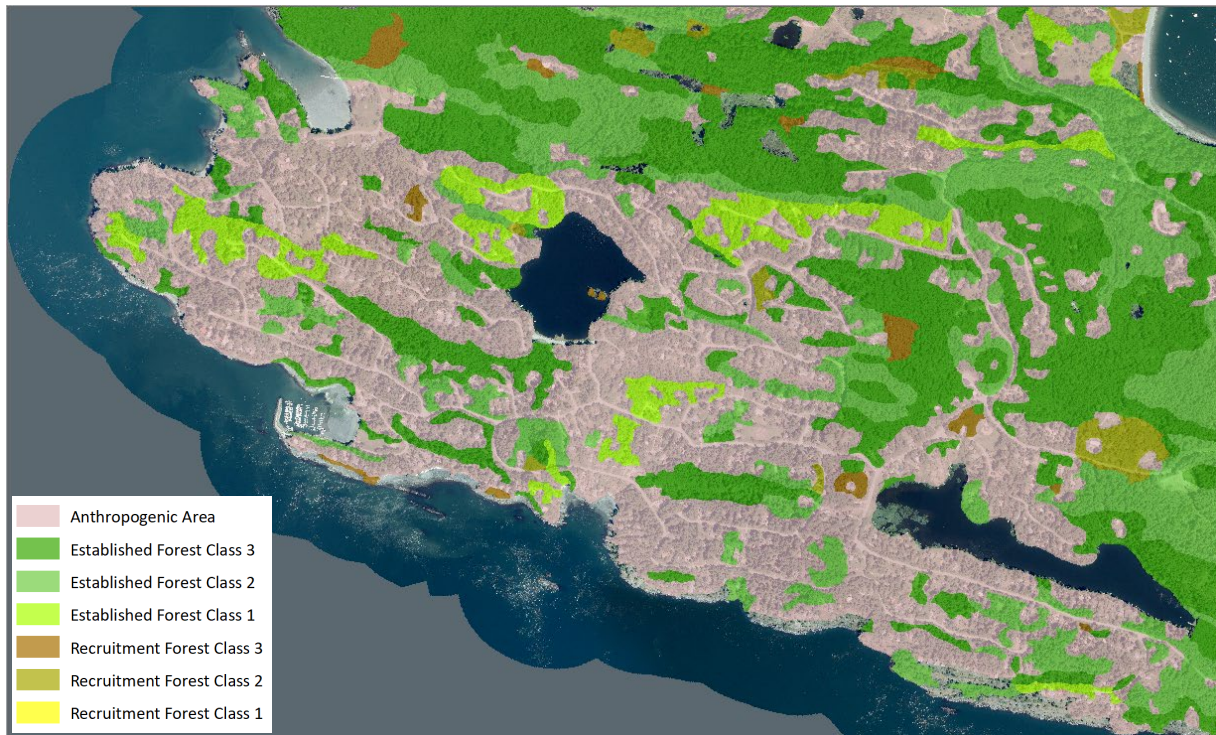


Figure 3. Small mature patches embedded in matrix of anthropogenic landscape features on North Pender.

6.0 Interpretation and Use

Using the provided mapping, management decisions can be contextualized in the forested, non-forest, and anthropogenic landscape. The data provided here can be used to inform the planning of Development Permit Areas (DPA) or recommend zoning restrictions in some areas, provided site-level ground truthing is completed. However, the key utility of this product is to help planners understand the wider spatial context in which those specific decisions are being made and to emphasize the unique patterns in each local trust area which bear on those decisions.

The variability observed in the spatial organization and size distribution of the patches between islands, as well across islands, provides an important context for site-level management decisions. However, the degree of variability described by this mapping places the weight of decision making on a case-by-case interpretation of the results.

Interpretation of these map products to define conservation goals, particular to each island or local trust area, will help inform key management decisions. For instance, restoration efforts could be focused on areas where early succession forests are dominant. Likewise, where the forested landscape is composed of small isolated patches of established forest, protection measures may be appropriate to increase connectivity between patches, to



protect this scarce resource. The provided map products can be used to identify areas of connectivity between forest patches, prioritize their protection from development pressures, or identify areas of potential connectivity towards which restoration can be focused. Some combination of these strategies should be utilized in each trust area, but the balance and emphasis of management actions must rest on a detailed assessment of the needs and values of each local trust area and incorporate a variety of data, local and traditional knowledge. Local trust area specific GIS models or decision support systems may have utility, but a detailed synthesis of available knowledge and an articulation of values is critical to this process.

It is recognized that logging occurs on private land in the Islands Trust. It may be difficult to anticipate these activities as parcels change ownership and the values of the owners change over time. It may be prudent to encourage the long term, sustainable management of private forests and the incorporation of public values into this management. The mapping tools currently available to the Islands Trust can be useful in developing measures which take into consideration the existing level of fragmentation of the forested ecosystems. For instance, existing road openings and forest edges and can be used to minimize the creation of new disturbances. Alternative silviculture systems such as single tree or small patch selection could also be used to maintain canopy cover over the landscape.

7.0 Limitations

The most challenging limitation inherent in this type of analysis is the scale and accuracy of the underlying mapping. Since primary data collection was outside the scope of this project, it relied on the previously collected TEM data. This was mapped at the 1:10,000-1:20,000 scale, depending on the island. This level of precision means that decisions which require highly detailed mapping should employ a measure of "ground truthing" to verify the accuracy of TEM boundaries and attributes in the field. While considerable effort was made within the scope of this project to ensure the TEM data attributes followed conventional standards, errors and omissions may be present which would require additional field work to correct. Some of these errors may have been introduced by land use changes which occurred after the completion of this initial field work. Likewise, the identification and mapping of contiguous forest was generalized, as it was not specific to any species habitat and therefore avoided over specifying the model. Relevant ecological questions might become evident at finer scales that are not addressed here. These mapping products should be used to contextualize site-level decisions within the forested landscape but not be relied on to execute them.



8.0 Considerations for Future Work

Constraints mapping and inventory of forested ecosystems in the Islands Trust may form the basis of further analysis or provide context for other types analysis of the Trust's forest ecosystems.

Trust Area Specific Modelling and Mapping: The present model could be further developed to reflect the conservation planning goals of each trust area and the development challenges they face. This could resemble a refinement of the patch quality ratings to incorporate conservation values which have been identified per island.

LiDAR Analysis of Forest Resources: LiDAR could be used to update the present analysis with greater precision and accuracy. This will identify both recent openings and small openings in the canopy that are not presently accounted for in the TEM, and would provide a more accurate inventory of forest resources. Furthermore, the identification of veteran trees from this data set may have value for planning around natural heritage values. Additionally, LiDAR may be used in some cases to expedite the ground-truthing of DPA or zoning sites.

Resiliency and Climate Change: This inventory of forest resources in the Islands Trust could be improved by an assessment of the resiliency of stands to a changing climate and modelling compositional changes of forest ecosystems. These models can help inform long-term, multi-generational decision-making.

Carbon: Using a detailed forest inventory, the current and potential storage and sequestration rates of forest carbon can be calculated under different management scenarios. As the carbon economy matures, these models may become critical to responsible management of forest resources and provide an economic incentive for sustainable forest management.

9.0 References

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United States Department of Agriculture Forest Service. 2001. *Forest Roads: A Synthesis of Scientific Information*. General Technical Report PNW-GTR-509.

10.0 Appendices

A. Decision criteria for constraints and forest mapping.

Map Feature	Objective	Analysis	Decision criteria
Anthropogenic Non-forest	Identify anthropogenically modified polygons	TEM data classification	>= 20 % non-forest polygon (Site Series = '00') and TEM Map Code represents anthropogenic landscape feature. (Holt, 2001).
Natural Non-forest	Identify natural non-forest polygons	TEM data classification	>= 20 % non-forest and TEM map code represents natural non-forest features such as rock outcrops, open water, etc.
Roads	Model disturbance caused by roads	Density analysis	Road density is over or under a threshold of 1 km / km ² . (USDA, 2001).
Structures	Model disturbance caused by structures	Density analysis	Structure density is classified by Jenks breaks. Higher classes represent disturbances not captured in TEM but observed in ortho photography.
Structural stage	Distinguish between structurally complex mature forest and early succession forests.	TEM data classification	Established Forest has TEM Structural Stage > 4 in >= 50 % of polygon. The remainder are Recruitment Forest stands in early succession.

B. Summary of forested TEM units by local trust area.

STRUCTURAL STAGE CLASS		Established Forest			Recruitment Forest			Total (ha)
PATCH QUALITY CLASS		1	2	3	1	2	3	
TRUST AREA	BM		1,162	2,543		148	93	3,947
	DE		729	674		1,162	421	2,986
	EX			29			14	43
	GB	17	2,094	517		821	79	3,528
	GL		2,594	910	3	1,456	220	5,183
	GM	8	1,641	6,312	18	366	460	8,803
	HO		568	835		2	371	1,776
	LA		1,392	4,551		34	151	6,129
	MA	15	673	869		61	92	1,709
	NP	34	1,184	2,171	2	174	152	3,717
	SA	14	1,336	1,565	2	98	163	3,178
	SP	2	301	387		35	17	742
	SS	14	3,360	5,273		1,827	2,825	13,300
	TH		1,205	1,947		366		3,518
Total (ha)		105	18,239	28,583	24	6,549	5,059	58,559



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VERNON, BC, V1T9G1
778-475-3655

Prepared By:

A handwritten signature in black ink, appearing to be "Liam Quan".

Liam Quan, FIT
Resource Analyst
Cabin Resource Management

Reviewed By:



Mike Crone, RPF
Partner
Cabin Resource Management

May 4, 2020

"I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work."



Trust Area **BM**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
- Federal/Provincial Parks, Nature Reserves And Protected Areas
- Trust Area Boundary

This map series shows forested ecosystems in the Islands Trust. It contrasts these against anthropogenically modified landscape features to illustrate the matrix of forest patches of different types across the landscape.

"Recruitment Forest" designates stands in early structural stages and includes forests in stages of development up to the pole/sapling stage.
"Established Forest" designates young to old forests.

Preliminary analysis removed Anthropogenic (heavily disturbed) areas as well as Natural, Non-Forest areas. For each forested polygon, the level of disturbance was assessed based on road and structure density.

Class 3: undisturbed or minor disturbance
Class 2: moderate disturbance
Class 1: high disturbance

Refer to the associated report, *Contiguous Forest Mapping in the Islands Trust Area*, Cabin Resource Management, 2020.

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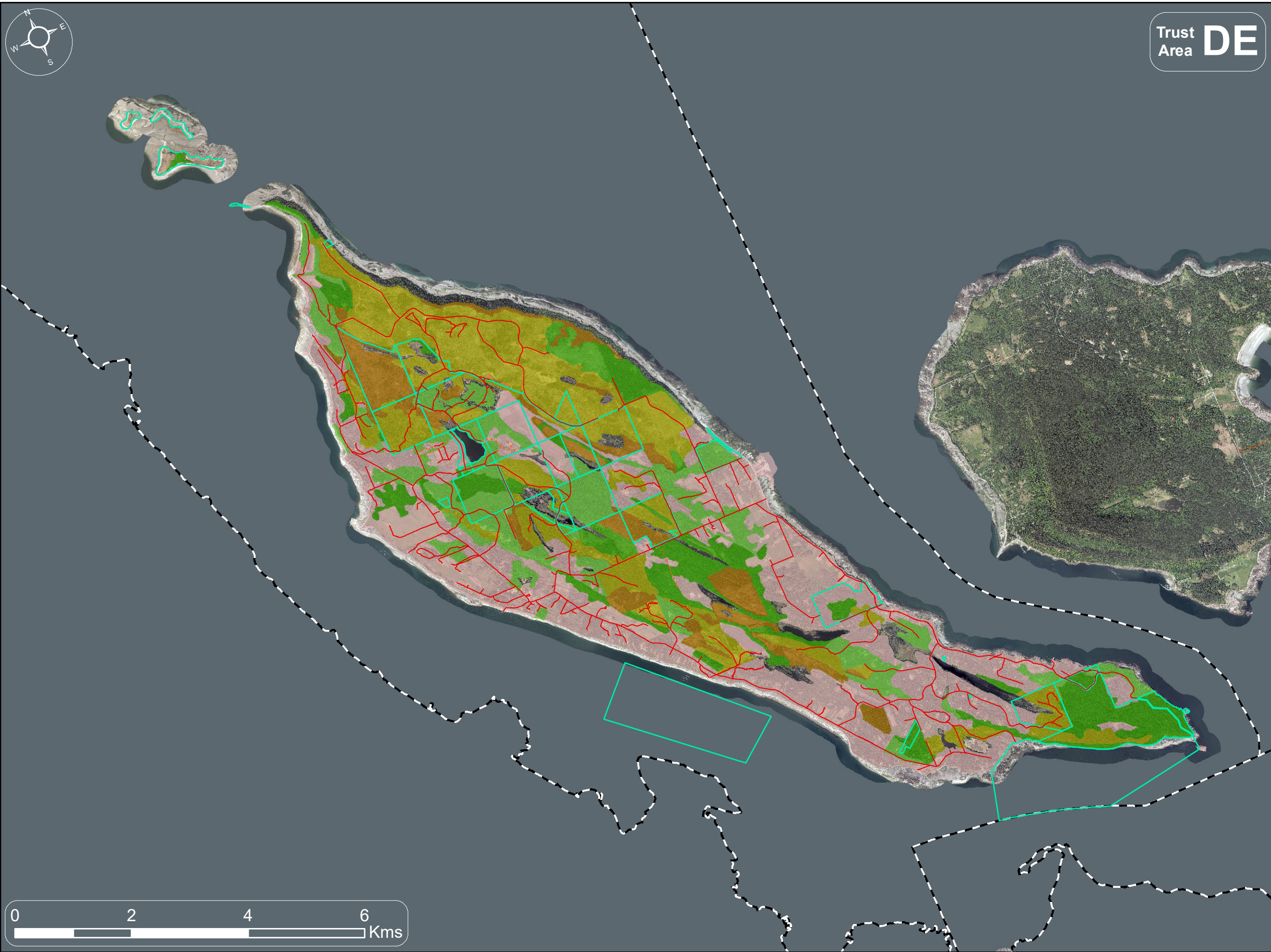


Islands Trust

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RESOURCE MANAGEMENT





Trust Area **DE**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
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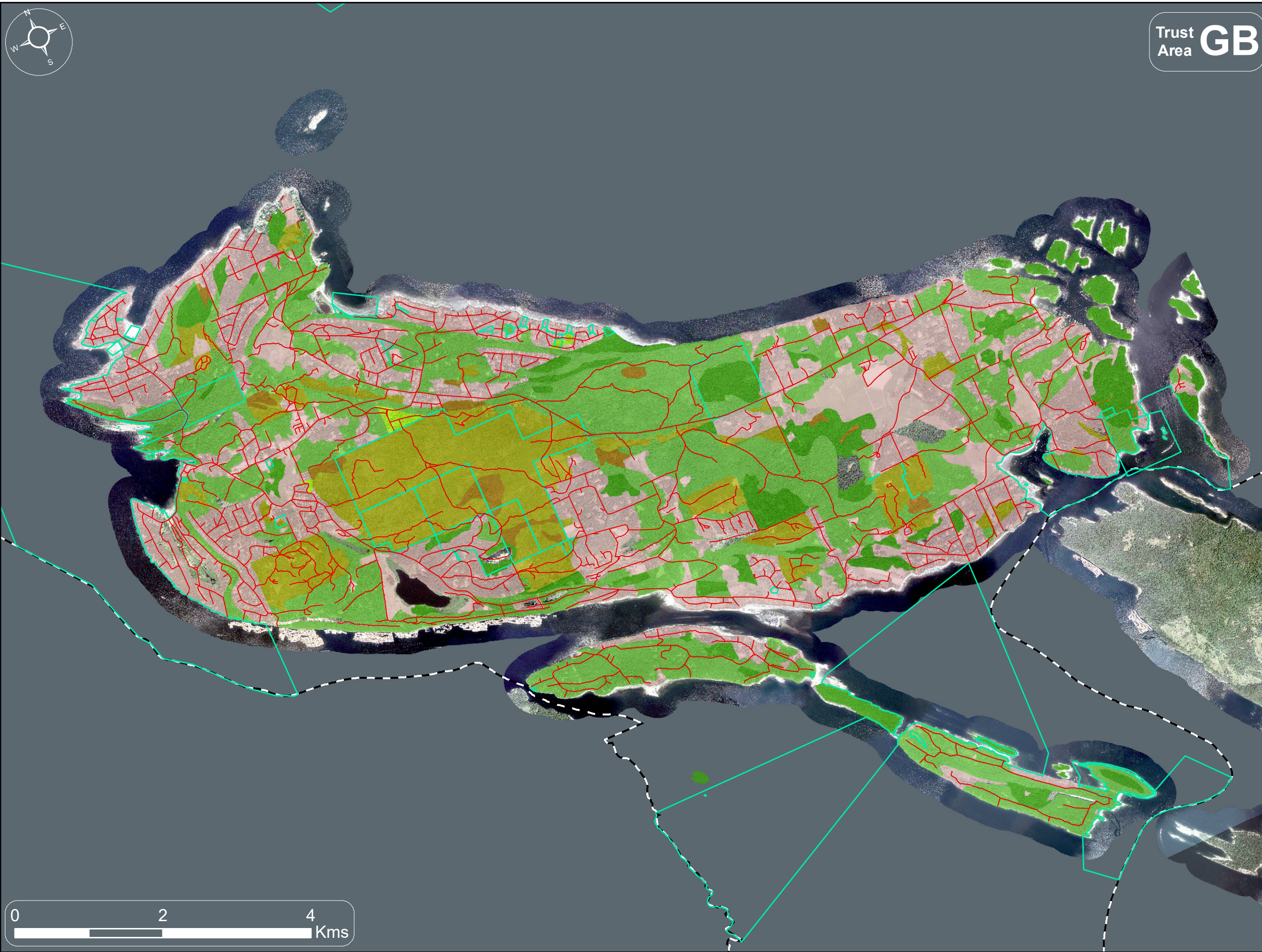
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Islands Trust



RESOURCE MANAGEMENT



Trust Area **GB**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
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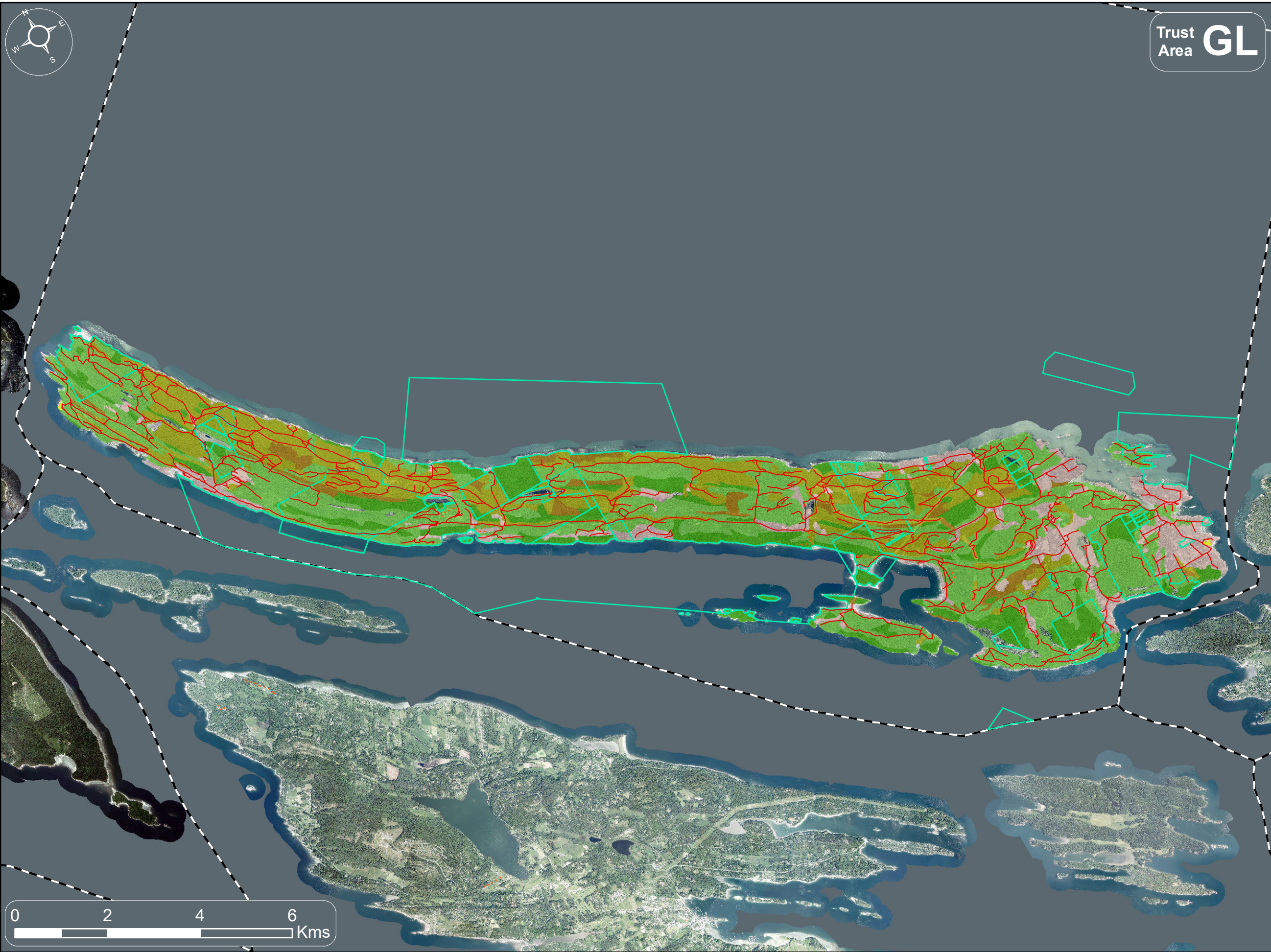
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Islands Trust



RESOURCE MANAGEMENT



Trust Area **GL**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
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Islands Trust

CABIN

RESOURCE MANAGEMENT



Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
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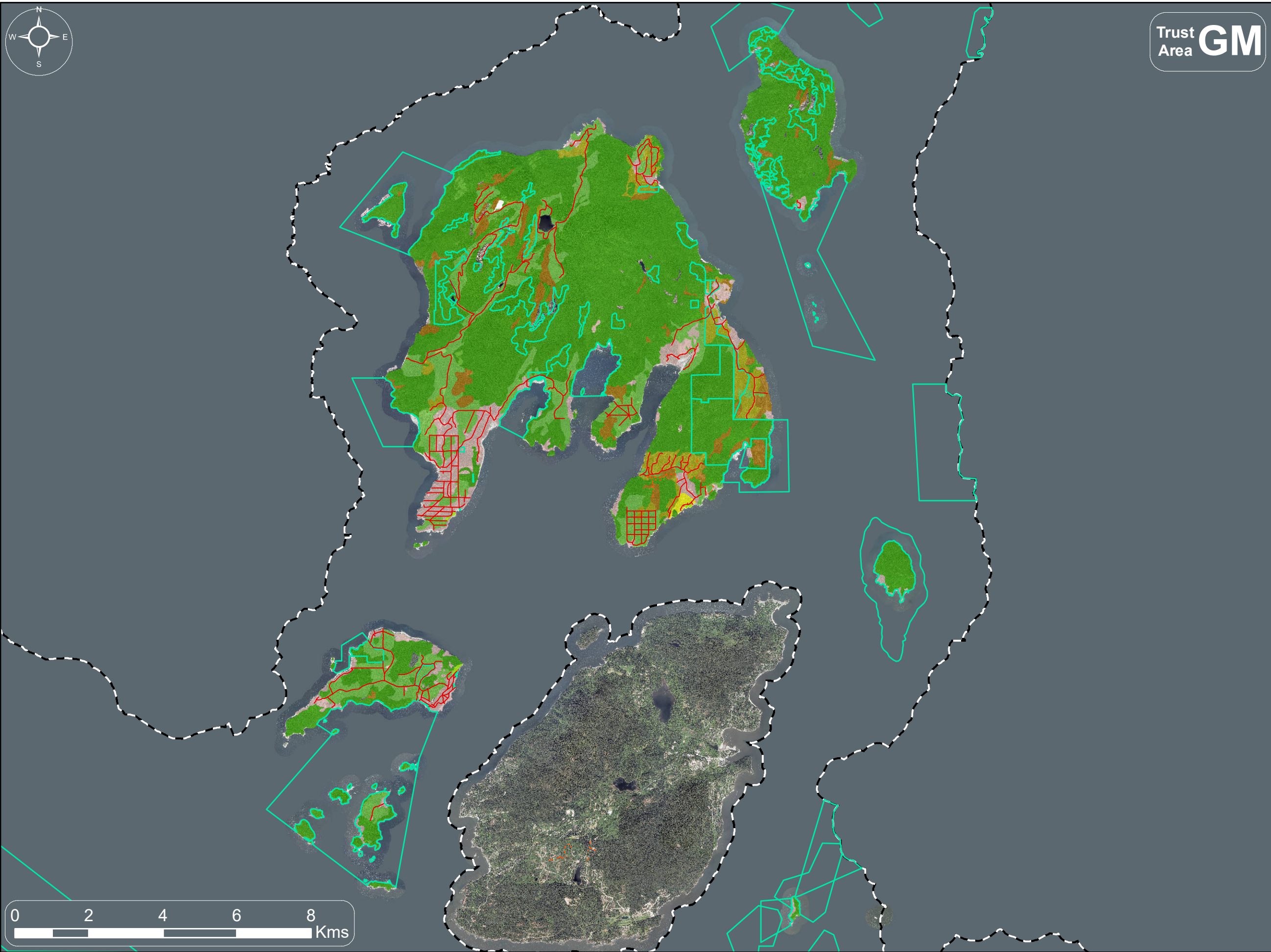
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RESOURCE MANAGEMENT





Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
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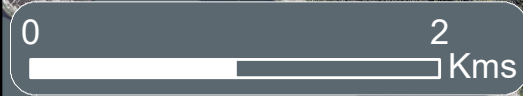
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Islands Trust



RESOURCE MANAGEMENT





Trust
Area **LA**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
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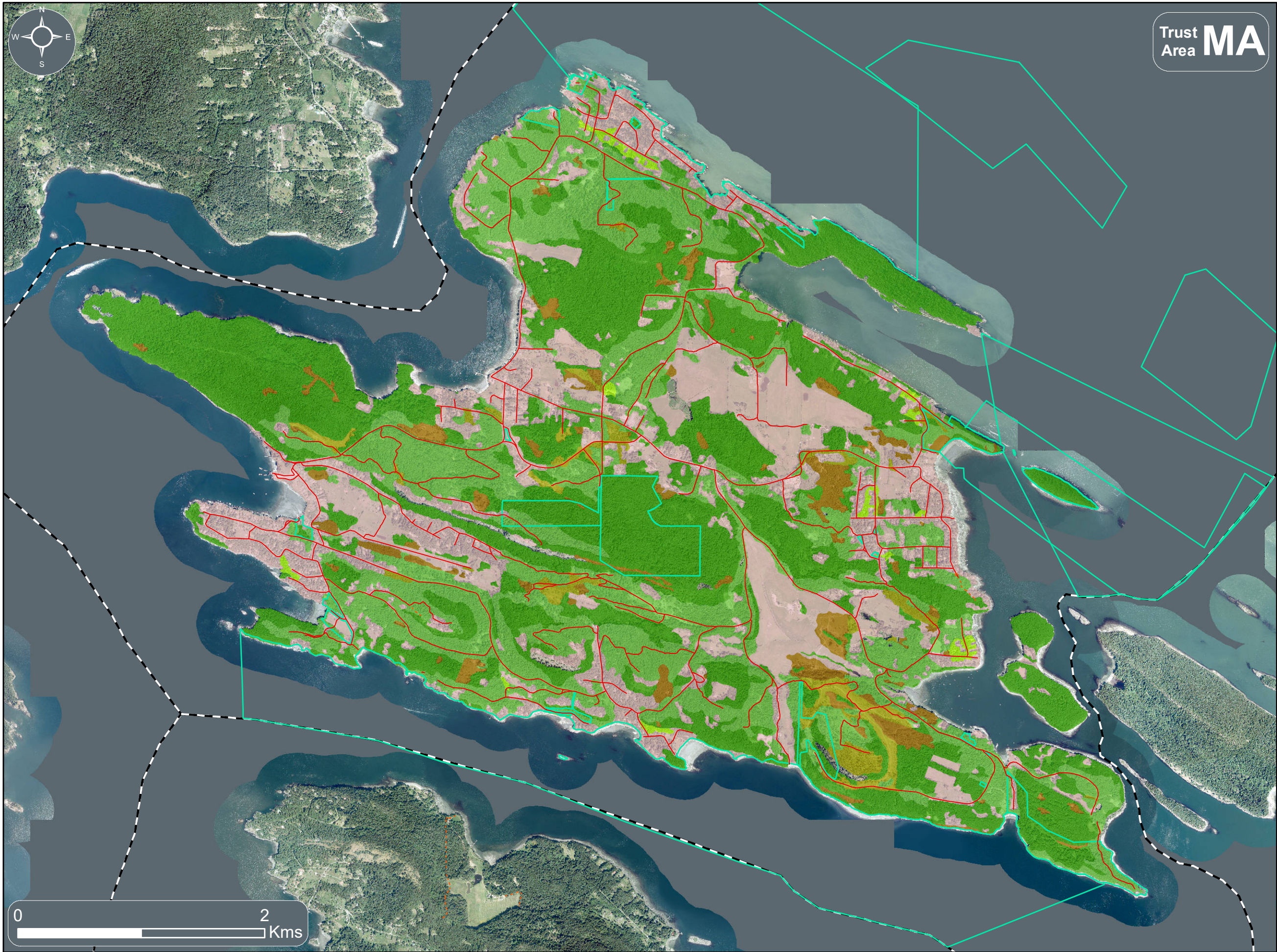
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Islands Trust

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RESOURCE MANAGEMENT



Trust Area **MA**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
- Federal/Provincial Parks, Nature Reserves And Protected Areas
- Trust Area Boundary

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RESOURCE MANAGEMENT



Trust Area **NP**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
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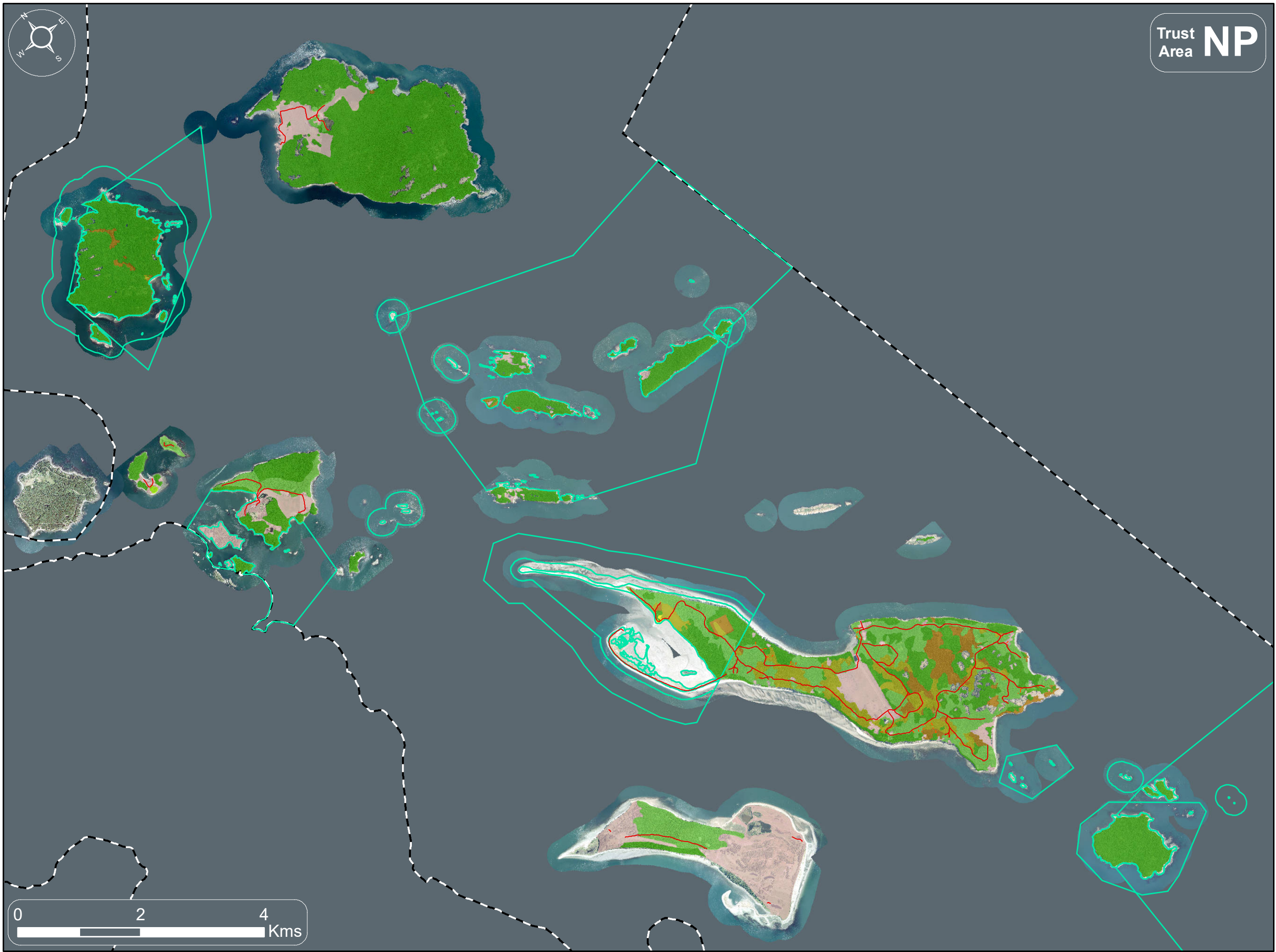
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RESOURCE MANAGEMENT



Trust
Area **NP**

Forest Ecosystems In The Islands Trust

- - - Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
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- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
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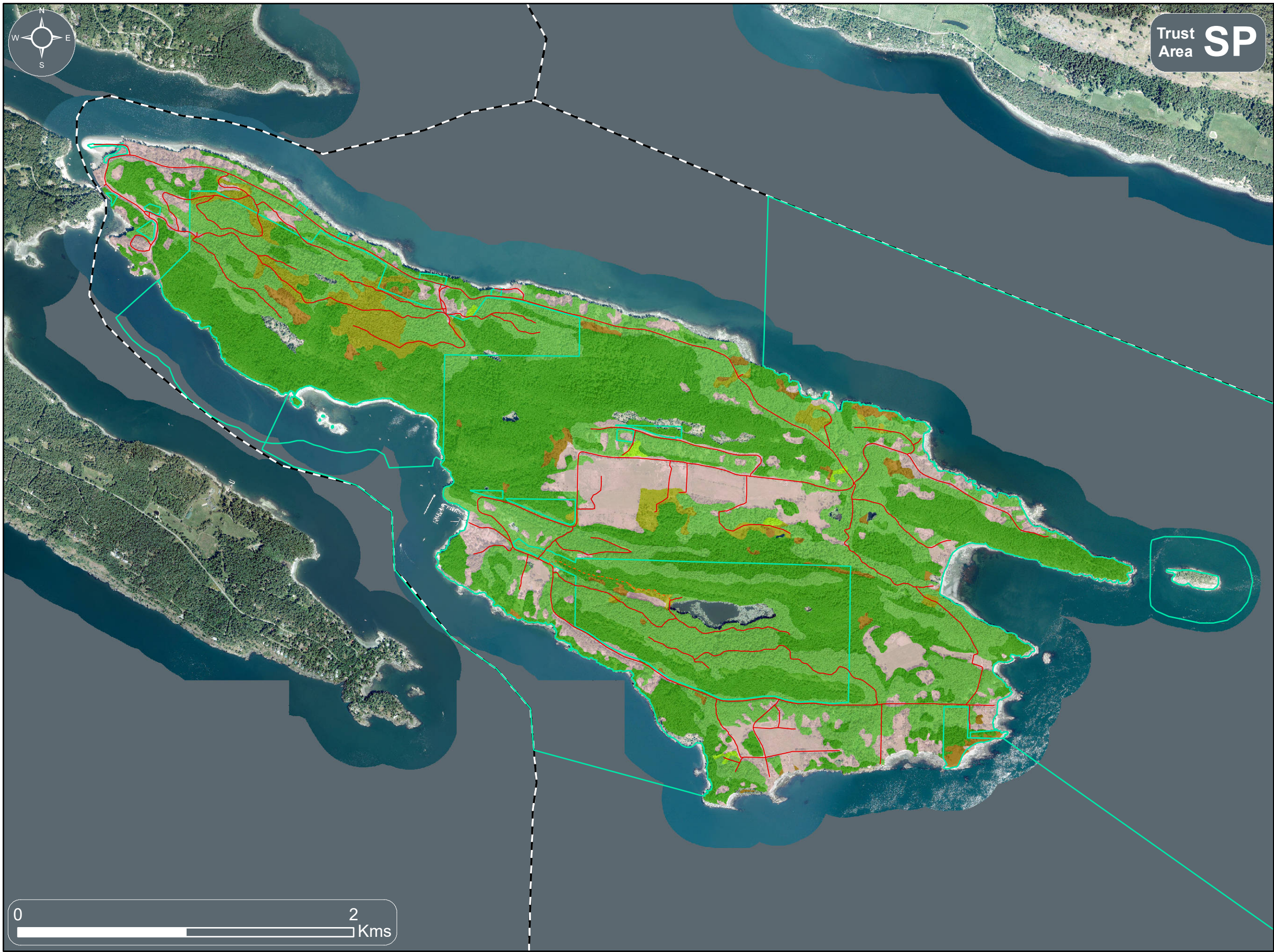
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Trust Area **SP**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
- Federal/Provincial Parks, Nature Reserves And Protected Areas
- Trust Area Boundary

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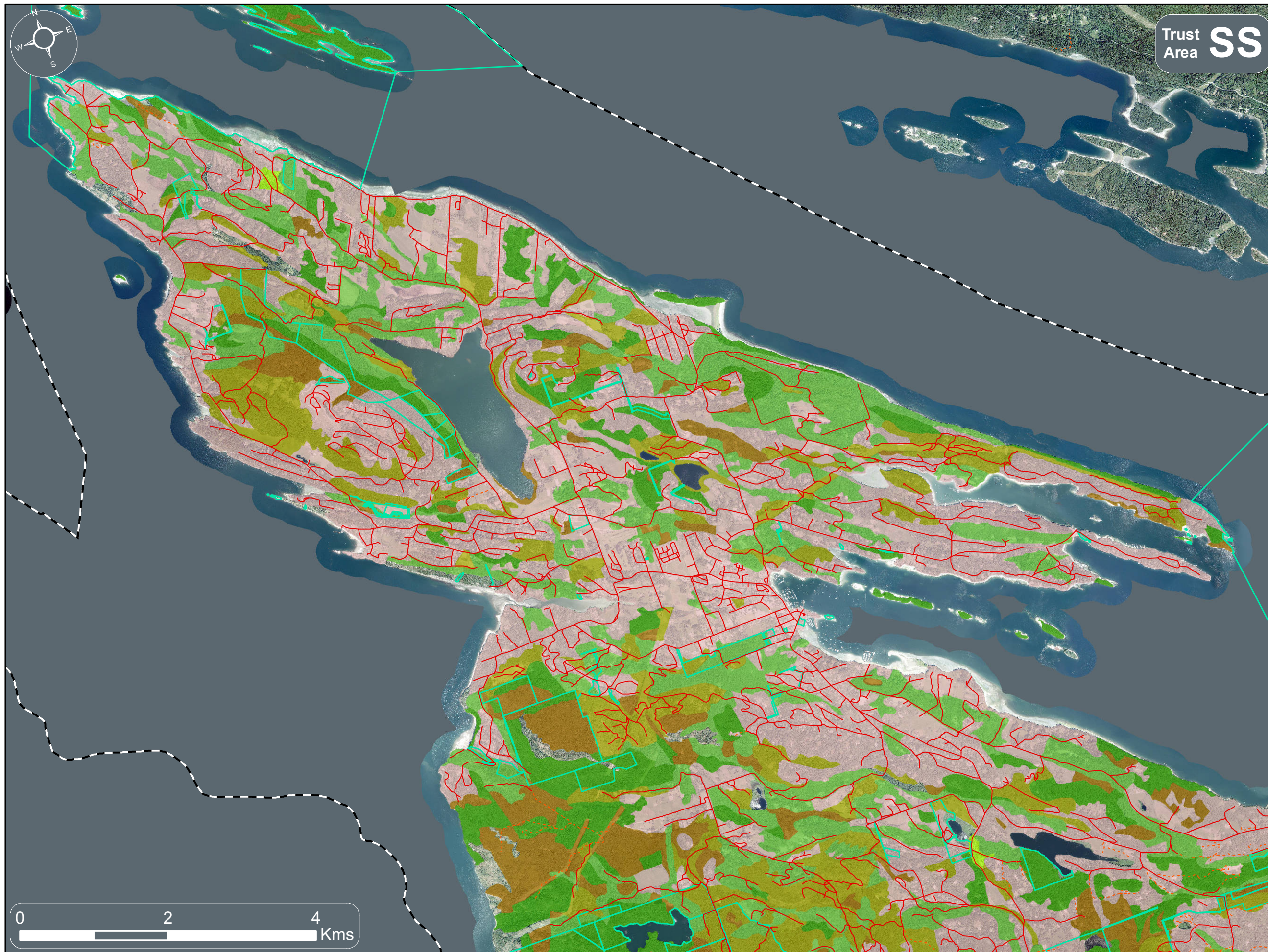
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RESOURCE MANAGEMENT



Trust Area **SS**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
- Federal/Provincial Parks, Nature Reserves And Protected Areas
- Trust Area Boundary

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Trust Area **SS**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
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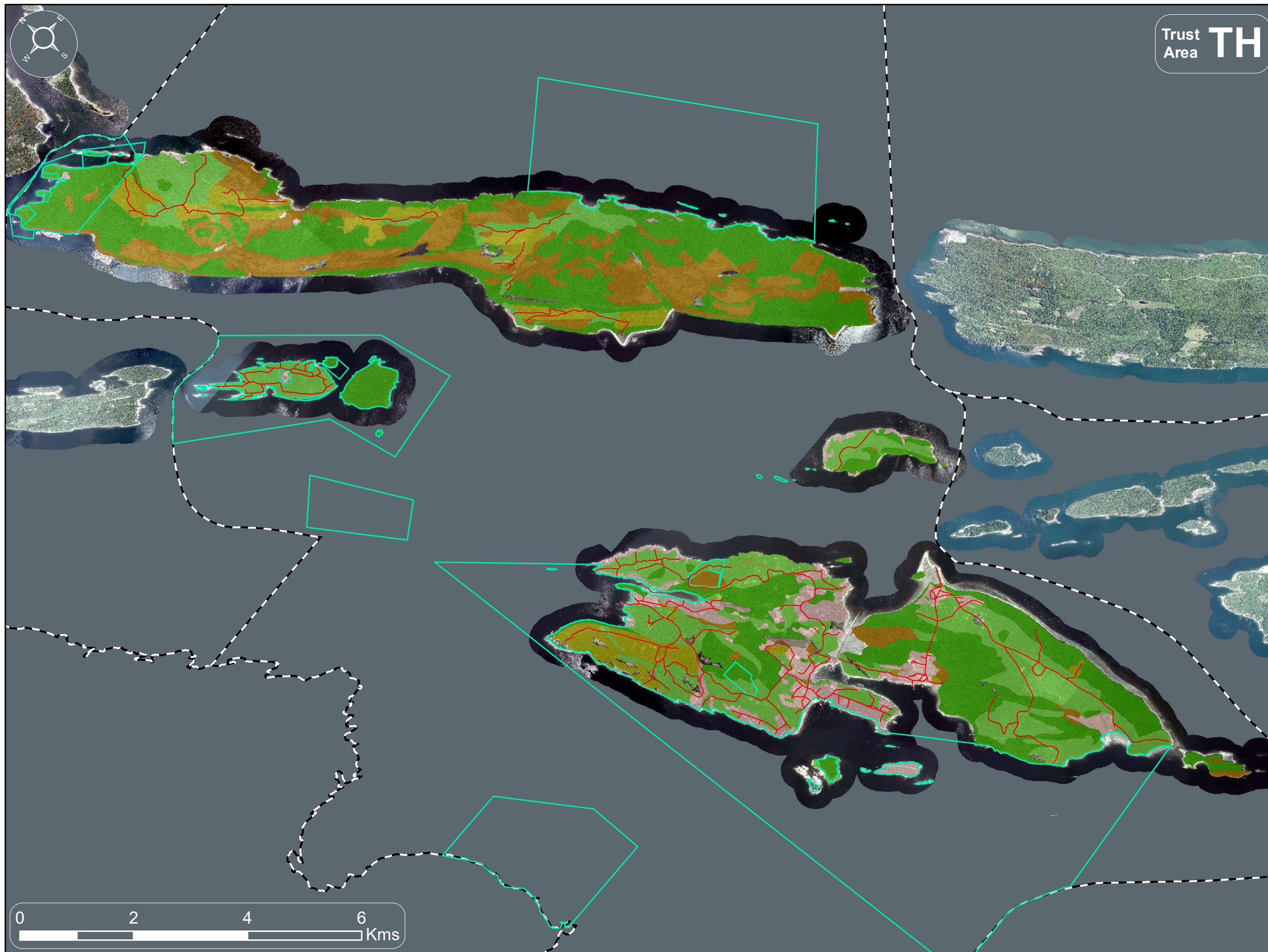
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RESOURCE MANAGEMENT



Trust Area **TH**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
- Recruitment Forest Class 2
- Recruitment Forest Class 1
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- Trust Area Boundary

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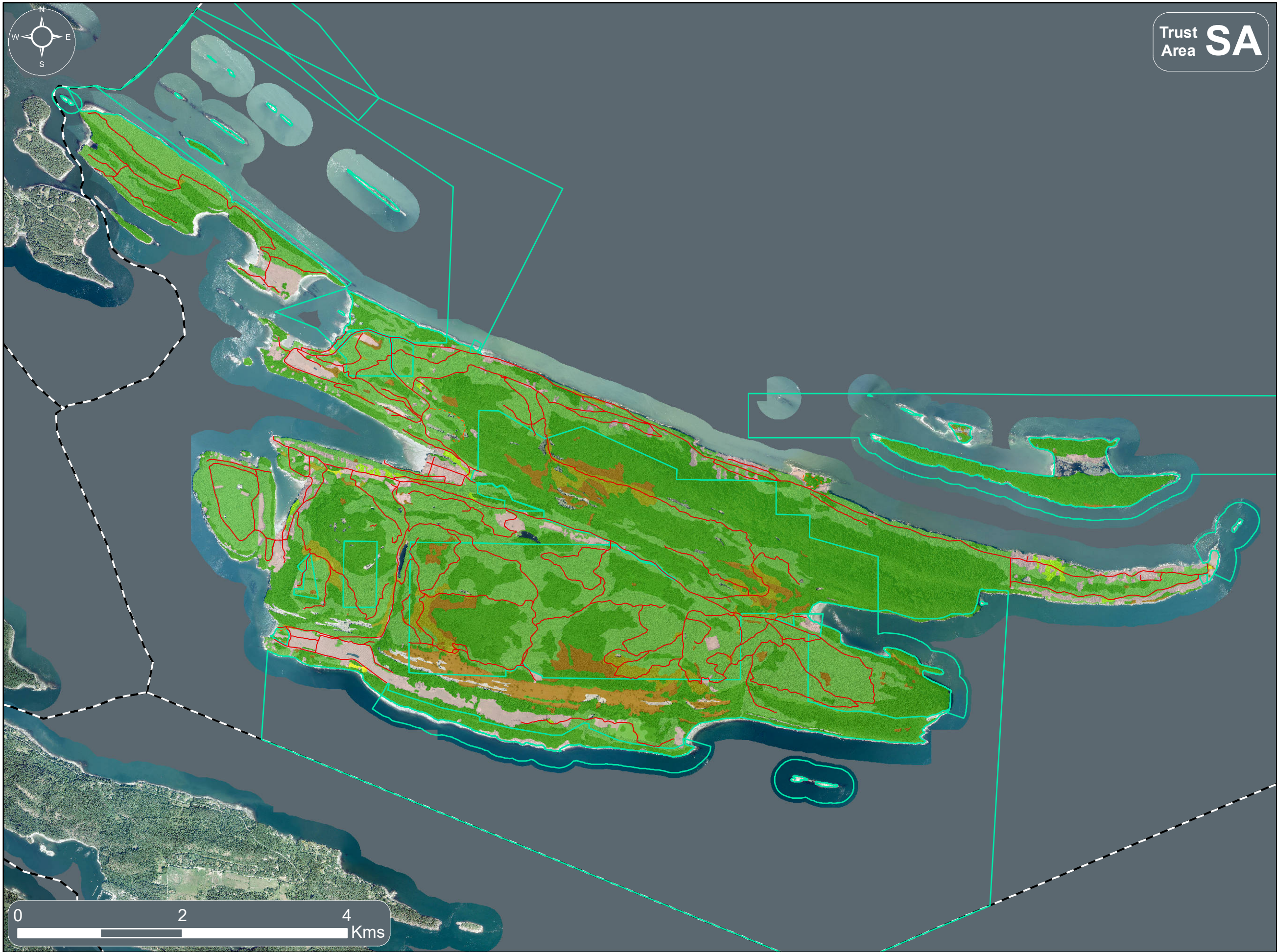
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Islands Trust



RESOURCE MANAGEMENT



Trust Area **SA**

Forest Ecosystems In The Islands Trust

- Private Road/Driveway
- Road
- Anthropogenic Area
- Established Forest Class 3
- Established Forest Class 2
- Established Forest Class 1
- Recruitment Forest Class 3
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