

Cranberry Lake Provincial Nature Reserve Interim Management Statement

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Fort Frances, Ontario P9A 1J4



**Ministry of
Natural
Resources**

**Hon. Vincent G. Kerrio
Minister**

**Mary Mogford
Deputy Minister**



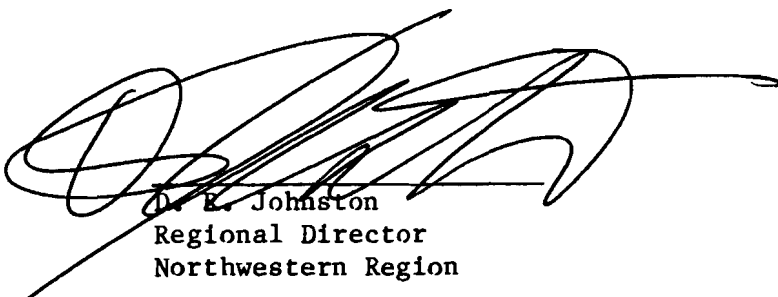
January, 1986

REGIONAL DIRECTOR'S APPROVAL STATEMENT

This Interim Management Statement will provide interim direction for the management of the Cranberry Lake Provincial Nature Reserve Park until a comprehensive Park Management Plan is prepared.

This statement will provide the basis for the subsequent preparation of the Park Management Plan.

I am pleased to approve this Interim Management Statement for the Cranberry Lake Provincial Nature Reserve.



D. E. Johnston
Regional Director
Northwestern Region

INTRODUCTION

The purpose of this Interim Management Statement is to identify:

- i) park values which are to be protected;
- ii) resource management prescriptions necessary to protect these values; and
- iii) restrictions on use of natural resources within the park.

This Interim Management Statement is not intended to replace a Park Management Plan. Rather it is intended to guide the use of natural resources and related activities within the park until such a time as a Park Management Plan is prepared.

The guidelines that have been developed are based on information contained in the Fort Frances District Land Use Guidelines.

MANAGEMENT GUIDELINES

I LAND TENURE

There are presently no forms of alienated land tenure within the park boundary.

Guideline

Requests for any form of land tenure will not be considered.

II LAND ACQUISITION/DISPOSITION

There are four patented properties presently located within the park boundary and described as follows:

S 1/2 Lot 1, Con. 3
Pratt Township
65.56 ha.

E 1/2 of S 1/2 Lot 12, Con. 4
Sutherland Township
41.28 ha.

N 1/2 Lot 12, Con. 3
Sutherland Township
82.35 ha.

W 1/2 of S 1/2 Lot 11, Con. 4
Sutherland Township
40.87 ha.

In addition, the park is largely surrounded by patented property.

Guidelines

The Ministry of Natural Resources will not actively seek to acquire the above described patented property pending the completion of the park management plan. The Ministry will however, enter into negotiations with property owners interested in disposing of property when such properties are considered significant to the management of the park.

The further disposition of Crown-owned lands will not be considered.

The Ministry will attempt to influence the use of private lands within and adjacent to the park when such uses are considered significant to the management of the park.

III EXISTING/PROPOSED DEVELOPMENT

There are no existing facilities or developments within the park with the exception of a bush trail extending along the top of the raised strandline.

Guideline

Proposals for park development will not be considered pending the completion of the park management plan. Park development will be limited to trails, necessary signage and interpretive facilities for research and educational purposes.

The present trail permits access into the nature reserve and to the patented properties listed above. This trail will be permitted to remain providing it does not detract upon known park values.

IV RECREATION ACTIVITIES

The only recreational activities that presently occur within the park area are a limited amount of sport hunting and to a lesser extent, wildlife viewing.

Guideline

The above mentioned recreational activities will be permitted to continue.

V COMMERCIAL ACTIVITIES

A portion of one trapline is included within the park boundary.

A small amount of timber has been harvested in the past from isolated patches within the park.

The two small lakes within the park (Cranberry Lake and Marsh Lake) are heavily fished for bait by one local commercial tourist operator. No other commercial activities presently exist.

Guidelines

Trapping on the existing trapline will be permitted to continue within the park area. Proposals for trapline cabins will not be considered.

Timber harvesting will not be permitted in the park.

Commercial bait fishing operations will be permitted to continue. Since the licence utilizes an aircraft to gain access to the area, provision will be made for an aircraft landing permit under the Provincial parks Act.

Mineral exploration/extraction will be permitted to continue as per the Fort Frances District Land Use Guidelines. This activity will only be authorized by the issuance of an Exploratory Licence of Occupation under Section 190 of the Mining Act.

Aggregate extraction and the extraction of peat will not be permitted within the park.

VI NATIVE INTERESTS

There are no known Native interests in the park area.

VII NATURAL RESOURCES

A number of natural resource values have been identified to date through the reconnaissance earth and life science inventories. These values include a raised strandline associated with glacial Lake Agassiz (Campbell Phase) and a distinct peatland unit exhibiting swamp and open and closed bog vegetative communities. Management efforts will be directed towards the maintenance and protection of these features.

VIII CULTURAL RESOURCES

No known cultural resources have been identified to date.

IX CLIENT SERVICES

Information on the earth and life science values of this nature reserve will be made available to the public in an attempt to foster an understanding and appreciation for this park.

X RESEARCH

More detailed earth and life science inventories will be necessary prior to the preparation of the park management plan.

XI MARKETING

A marketing strategy for this nature reserve class provincial park will be addressed during the preparation of the park management plan.

SOURCES/REFERENCES

KOR, P., "Earth Science Inventory Checklist for Gameland - Raised Beach", O.M.N.R., 1978.

NOBLE, T., "Ontario Nature Reserves Program - Life Science Inventory Check-Sheet for Cranberry and Marsh Lakes - Peatland", O.M.N.R., 1978.

Ontario Ministry of Natural Resources, Fort Frances District Land Use Guidelines , 1983

SCALE: 1 INCH 40 CHAINS



ACRES

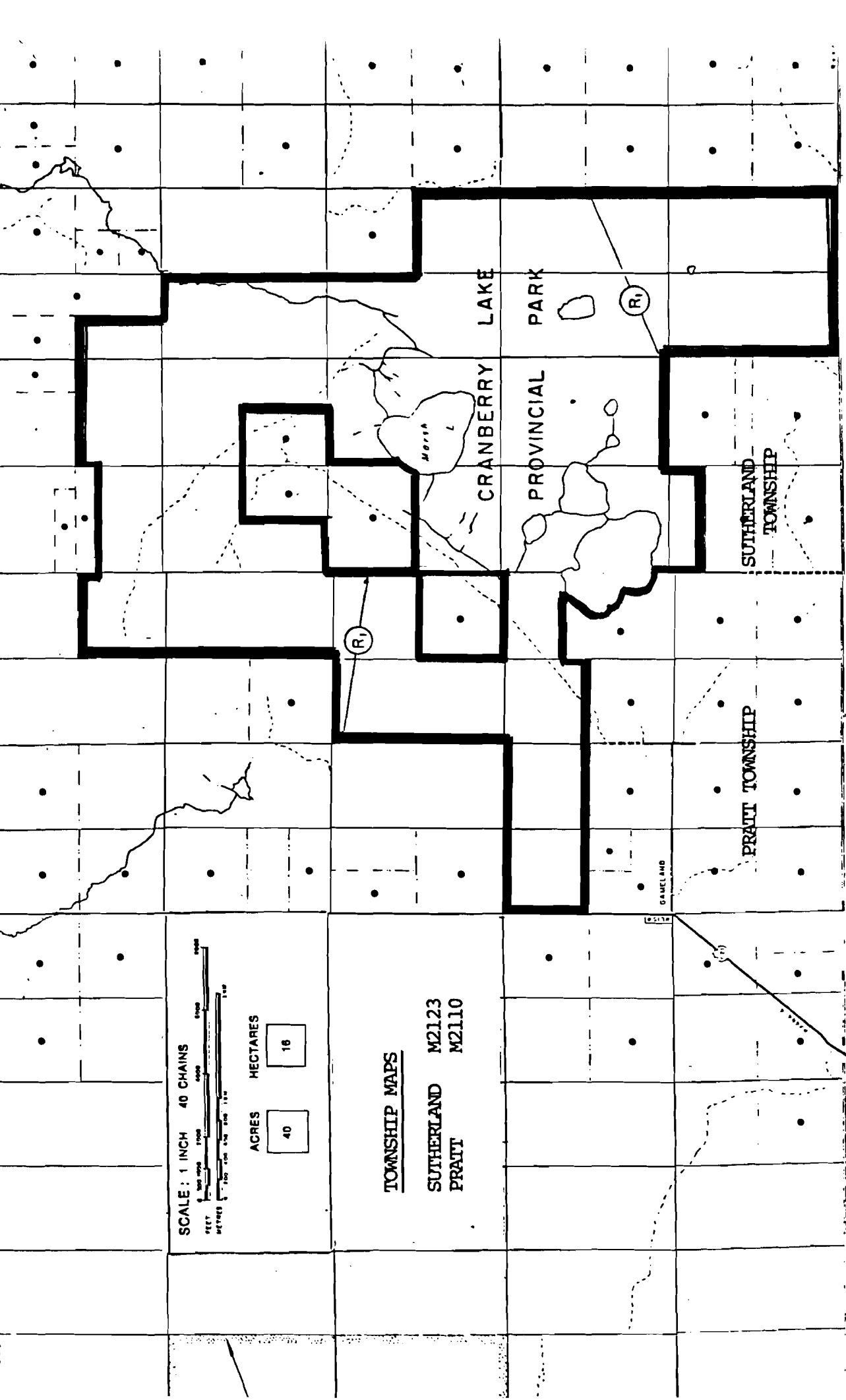
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HECTARES

16

TOWNSHIP MAPS

SUTHERLAND M2123
PRAIT M2110



BLUE Tp. M.2067

NELLES

NELLES Tp. M 21

6. GAMELAND

a. Area Description

Area 6 covers approximately 2200 hectares located northeast of Gameland in Sutherland and Pratt Townships. The area is comprised primarily of peatlands and includes two small lakes (Marsh and Cranberry).

Current uses include resident fur trapping, bait fishing, moderate deer and small game hunting, as well as a small amount of timber harvesting. Peat potential is high, while potential for metallic minerals is low. Aggregate potential is generally low although the strand line has moderate potential.

Area 6 encompasses five private properties, including one permanent residence. Access to the residence is gained along a bush road from the south and follows the strandline northward. The remainder of the area is inaccessible by road.

b. Land Use Intent

The area is being recommended for park status. The proposed park candidate would provide representation of the bog, swamp and fen communities within landscape unit 31 (Rainy River Clay Plain), as well as a raised strandline of glacial Lake Agassiz. Boundaries of the candidate area have been revised so as to exclude lands of

significant agricultural potential where these are located adjacent to areas presently being farmed.

In consideration of existing land uses within the area, it is further recommended that most of these uses be permitted to continue. The exception to this would be commercial logging which is not recommended as a continuing use. An outline of those ongoing activities which are recommended for continuation is given in the Land Use Activity section, however it must be realized that further refinement of these recommendations may be required in some instances.

The Land Use Activity section also provides guidelines for how the Ministry will attempt to influence the use of private lands located within the recommended candidate. These guidelines could be refined as more information is gathered concerning the contribution of these lands towards meeting park objectives.

Until such time as the area is established as a park, it will be managed essentially as Crown lands with private land inholdings. Traditional uses of the area will be permitted to continue provided they do not jeopardize long term park objectives, or impact on known park values to the significant detriment of their value once the park is created.

c. Land Use Activity For Area No. 6—GAMELAND

Activity	Acceptable		Recommended Guidelines
	Yes	No	
Aggregate Extraction		x	
Agriculture		x	
Bait Fishing	x		It is recommended that existing bait fishing operations be permitted to continue.
Commercial Fishing		x	
Cottaging		x	
Forestry		x	
Hunting	x		It is recommended that existing hunting activities be permitted to continue.
Mining	x		It is recommended that mineral exploration/extraction be permitted to continue.

Activity	Acceptable		Recommended Guidelines
	Yes	No	
Provincial Parks	x		Recommended for park status.
Roads		x	
Rural Residential		x	
Sport Fishing		x	
Tourism		x	
Trapping	x		It is recommended that existing trapping activities be permitted to continue.
Wildlife Viewing	x		
Wild Rice Harvesting		x	
Urban Development		x	

ONTARIO NATURE RESERVES PROGRAM - LIFE SCIENCE INVENTORY CHECK-SHEET

NAME Cranberry & Marsh Lakes - Peatland		MAP NAME Arbor Vitae		MAP NUMBER 52D/16	UTM REF. 400110								
COUNTY, DISTRICT or REGIONAL MUNICIPALITY District of Rainy River		LAT. 48° 51' N	LONG. 94° 21' W	ALT. MIN. 1125[±]	MAX. 1150								
LOCALITY Gameland		1:50,000 NTS MAP SHOWING AREA BOUNDARIES 1:250,000											
TOWNSHIP LOTS CONCESSIONS Sutherland													
AREA 4300 acres 1720 ha													
OWNERSHIP													
ADMINISTRATION													
FOREST REGION AND DISTRICT L.12-Rainy River	SITE REGION AND DISTRICT 5S-2												
MNR REGION AND DISTRICT NWR-Fort Frances	CONSERVATION AUTHORITY												
AERIAL PHOTOGRAPHS													
BASE MAP:													
<table style="width: 100%; border: none;"> <tr> <td style="border: none;">YEAR</td> <td style="border: none;">ROLL</td> <td style="border: none;">FLIGHT LINE</td> <td style="border: none;">NUMBERS</td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> </tr> </table>						YEAR	ROLL	FLIGHT LINE	NUMBERS				
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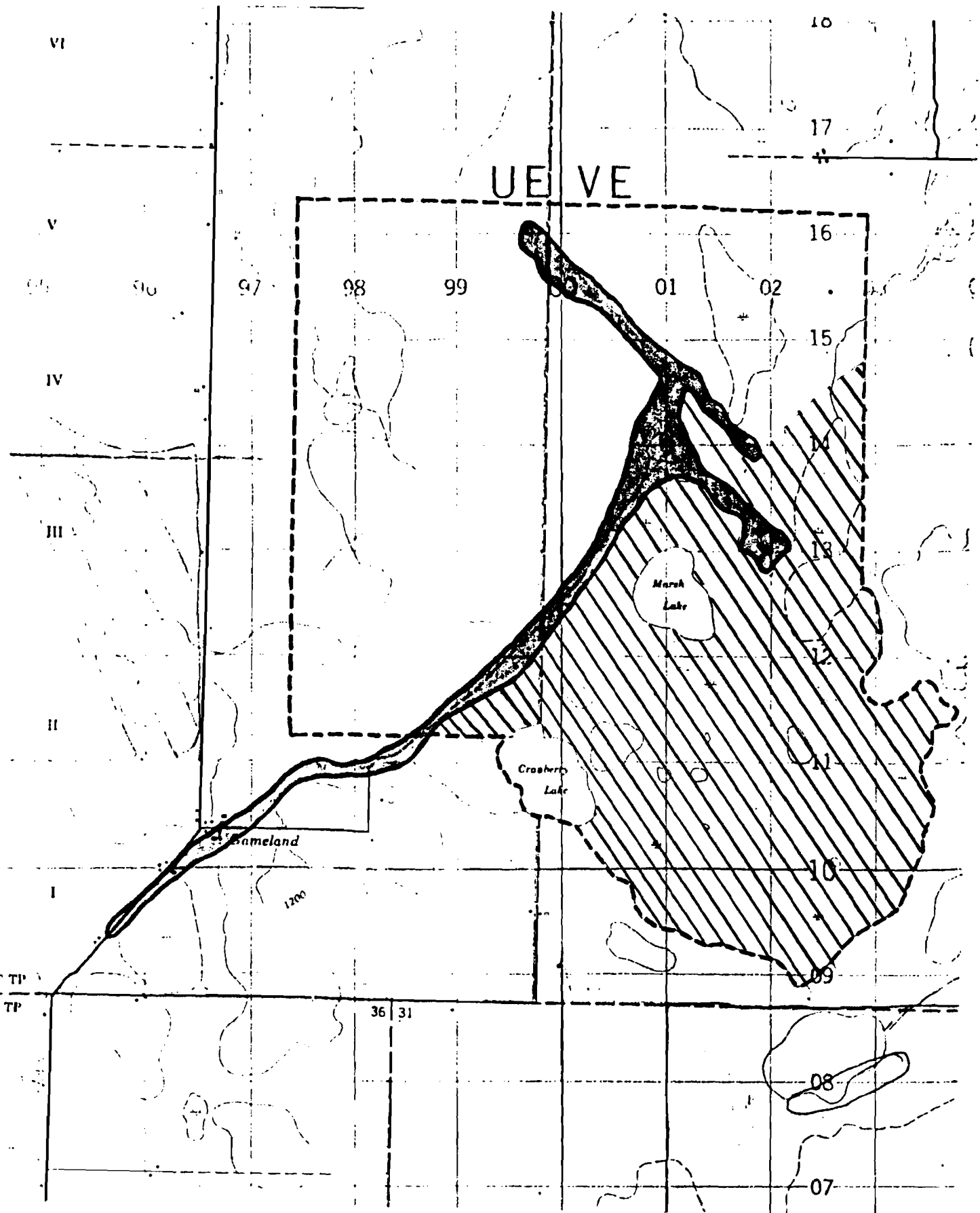
PHYSICAL AND BIOLOGICAL FEATURES

The Marsh and Cranberry Lakes area is a distinct peatland unit exhibiting swamp and open and closed bog vegetative types. Successional dynamics associated with organic terrain is vividly illustrated as bog lakes and ponds represent the wetter portion of the progression from open water to drier site types associated with edge of the peatland unit. The western boundary of this feature is coincident with a northeast-southwest trending raised beachline associated with Glacial Lake Agassiz (Johnston, W.A., 1915).

DATA SHEETS ATTACHED PHYSICAL DESCRIPTION <input type="checkbox"/> VEGETATION SUMMARY <input type="checkbox"/> EVALUATION SHEET <input type="checkbox"/> COMMUNITY DESCRS. <input type="checkbox"/> COMMUNITY COMP. LISTS <input type="checkbox"/>	SUMMARY SPECIES LISTS <input type="checkbox"/> PHYSICAL FEATURES MAP <input type="checkbox"/> VEGETATION MAP <input type="checkbox"/> BIBLIOGRAPHY <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/>	MAJOR INFORMATION SOURCES Johnston, W.A., 1915
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EVALUATION AND PRIORITIES

This unit has potential as a candidate Nature Reserve.



Outline of glacial Lake Agassiz beach ridge, and recommended candidate Nature Reserve boundary (dashed line). Scale 1:50,000.

FIELD NOTES

FIELD NO.: 8-8 NWR

DATE: 1980.08.26

AREA NAME: Marsh Lk.

LOCATION: 52D/16 (Arbor Vitae), 993116

FEATURE: Bog

ABIOTIC COMPONENTS - SLOPE -

ASPECT -

MICROCLIMATE -

DRAINAGE -

SUBSTRATE -

BIOTIC COMPONENTS - VEGETATION COMPOSITION BY STRATUM:

A) TREE - Open to treed, Sb

B) SHRUB - *Chamaedaphne calyculata*, *Kalmia polifolia*,
Andromeda glaucophylla, in open; *Ledum*
groenlandicum under Sb.

C) HERB - Species poor, *Carex* spp.

D) BRYOID - *Sphagnum* in hummocks.

- FAUNAL NOTES - Marsh Hawk

INCIDENTAL NOTES - Photos - 2
- Typical species poor bog

NAME Gameland-Raised Beach	MAP NAME Arbor Vitae	MAP NUMBER 52D/16	UTM REFERENCE 000125
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COUNTY	LAT. 48° 51'	LONG. 94° 22'	ALT. MIN. MAX. 355 m (1100ft.) 390 m (1200ft.)
TOWNSHIP Pratt, Sutherland	NTS MAP SHOWING AREA BOUNDARIES		
LOT CONCESSION Trends NE from Gameland, for 7 km along W. side of Cranberry and Marsh Lakes; 20 km NE of Rainy River.			
AREA 8446.0 acres 3418.1 ha.			
OWNERSHIP approx. 85% Crown; 15% alienated.			
ADMINISTRATION			
MNR REGION & DISTRICT CONSERVATION AUTH. NWR -Fort Frances			
AERIAL PHOTOGRAPHS - BASEMAPS			
YEAR ROLL FLIGHT LINE NUMBERS			
1965 33 4836 159-161			
33 4835 244-247			

EARTH SCIENCE FEATURES

- a low, distinct, continuous feature, consisting of sand and gravel, representing a significant constructional raised strandline of glacial Lake Agassiz (Campbell Phase)

SENSITIVITY

- susceptible to gravel extraction, but is completely intact at present; farm road along its length has not adversely affected the ridge to date

SIGNIFICANCE

- excellent representation of constructional strandline associated with glacial Lake Agassiz (Campbell Phase)

MAJOR REFERENCES

Johnston, W., 1915.

DATE COMPILED

COMPILER

Physical Features:

A low, gently hummocky predominantly single ridge trends northeastward from Gameland, on hwy 671, and ends in a complex ridge system north of Marsh Lake, Sutherland Twp. The single ridge is roughly 8 km (5 mi.) long, up to 250 m (800 ft.) wide, and generally no more than 5-7 m (15-20 ft.) high. The complex ridge system is discontinuous along a northwesterly trend for about 1.6 km (2.0 mi.), up to 500 m (1500 ft.) wide and no more than 5-7 m (15-20 ft.) high. The community of Gameland is built on the southern end of this feature, where its distinct topographic form is readily visible in the cleared fields and housing lots. Highway 671 parallels the ridge for several hundred metres south of Gameland. In a small gravel pit south of Gameland, it was observed that the ridge was composed of sand and gravel containing a high percentage of calcareous rock fragments. A farm road follows much of the length of the ridge to north of Marsh Lake; the material was observed to be similar in sample localities along this road. A low, flat wetland borders the ridge system on both sides.

The ridges were formed in a shallow glacial Lake Agassiz no more than about 12,000 B.P. The strength and continuity of the features probably indicates that they are littoral features formed in the lengthy Campbell Phase of the lake (Johnston, 1915, p.57,58). The high calcareous content indicates that the beach material was derived from the wave erosion of calcareous till, which was originally derived from the Paleozoic bedrock in Manitoba over which the Keewatin glaciers traversed. The complex ridge system at the north end of the sand beach probably represents a complex spit formed in the circulating waters of the shallow lake. The relatively flat upper surface of the wide ridge may indicate sub-aqueous formation. A general overall view of the surrounding countryside (see air photo mosaic attached) suggested that the feature may represent a baymouth bar or sand spit formed as the result of currents flowing northeastward deriving its material from the higher ground around Gameland. This is simply conjecture at this point, as more detailed studies are required.

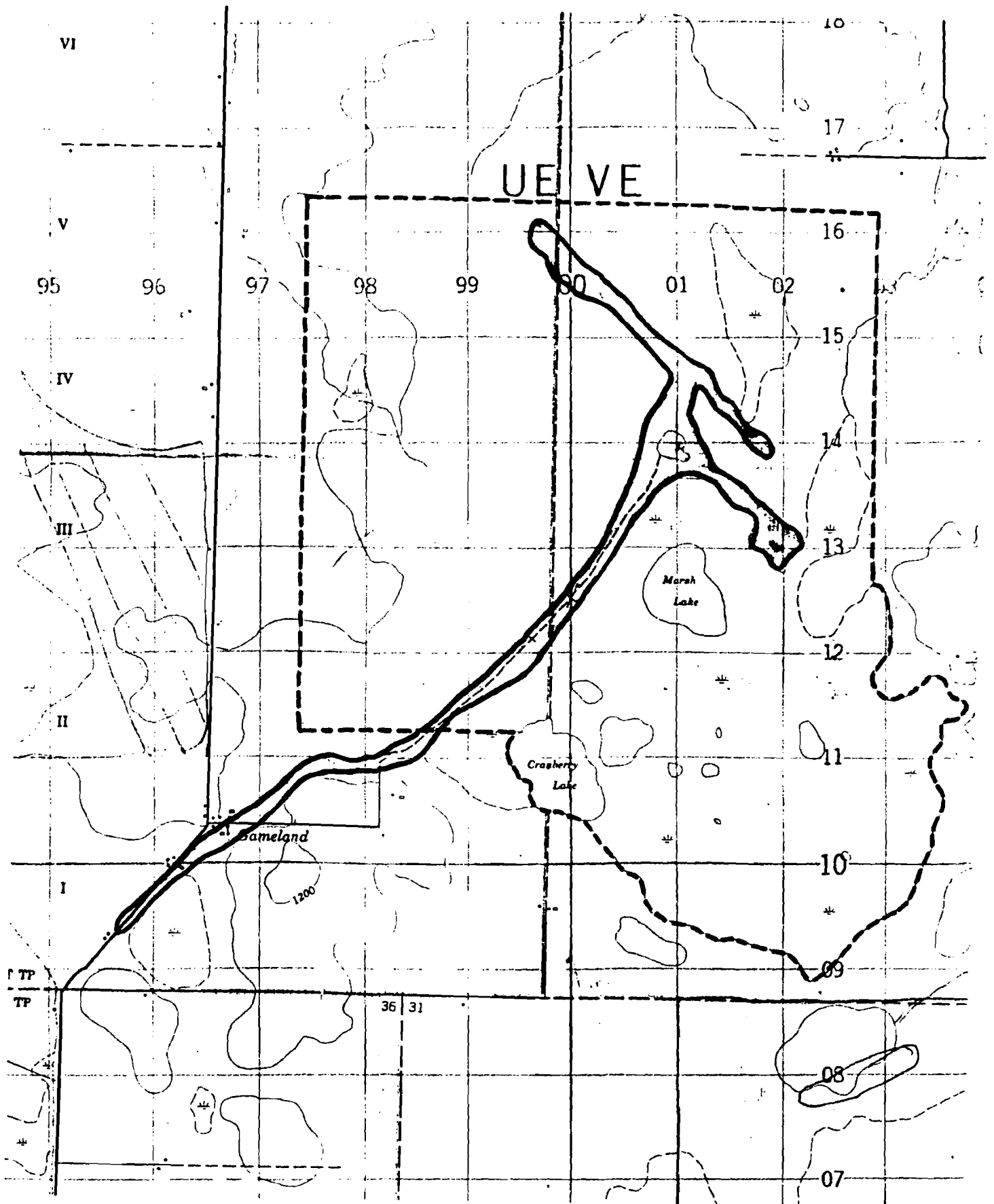
The beach feature has remained relatively free from man's influence. The southern portions are cleared and settled, forming the community of Gameland. North of the farmhouse east of Cranberry Lake, however, the ridge is marked only by a single track farm road and the occasional cutting. The ridge is otherwise well vegetated.

Significance:

Littoral features of the Campbell Phase of glacial Lake Agassiz are not uncommon in the Rainy River-Fort Frances area of Ontario; Johnston (1915, p.56-59) lists numerous such features. The Gameland occurrence is one of the best examples in the region because of its excellent form, high visibility and educational/scientific value, and its remarkable state of preservation in a dominantly rural environment. Other similar features (e.g. Spohn Twp. beach ridge, Wild Land Reserve beach ridge, Blue Twp. beach ridge) often are readily visible and of high educational and scientific value, but are extensively developed, with the building of farms and roads on their surface. The interesting geomorphological situation of the Gameland sandbar presents questions which only more detailed study may answer. The nature and extent of the Lake Agassiz environment may be interpreted from the study of this feature and its surroundings.

Recommendations:

The feature is relatively untouched north of the farmhouse east of Cranberry Lake. South of Cranberry Lake, the feature lies entirely on private land. Much of this portion of the beach ridge is on Crown land, though it seems to cut through private land as well. It appears to be in little danger of being extensively altered at present. It is recommended that at least the portion of the beach ridge north of the Cranberry Lake farmhouse be set aside as a candidate Nature Reserve to ensure its continued protection. A 3450 ha (8525 ac.) candidate boundary is suggested (see map attached). This boundary incorporates the salient properties of the beach ridge and includes the life science values of the Cranberry/Marsh Lakes wetland (see Life Science Systems Planning document, 1981).



Outline of glacial Lake Agassiz beach ridge, and recommended candidate Nature Reserve boundary (dashed line). Scale 1:50,000.

Sanleland
Lake Agassiz (Campbell) beach ridge
from Pleistocene, Operation Overthrust
Scale 1:50,000.



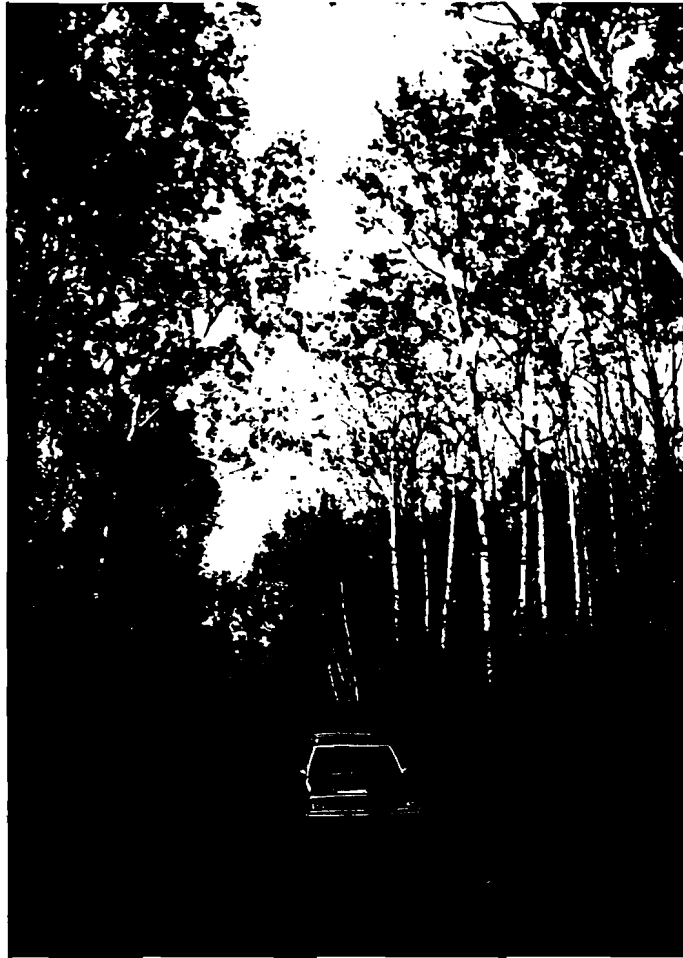


Photo showing road along centre of beach ridge, near Cranberry Lake (UTM 992116).



Photo looking northeast showing interface between edge of beach ridge (left) and clay-based marsh (right) (UTM 992116).