



## STRATEGIC OVERVIEW OF THE CANADIAN RAMSAR PROGRAM





North American Wetlands Conservation Council (Canada)



Environment Canada

Canadian Wildlife Service canadien Service

Environnement Canada

de la faune

Printed September 1996 Ottawa, Ontario

This document, Strategic Overview of the Canadian Ramsar Program, has been produced as a discussion paper for Ramsar site managers and decision makers involved in the implementation of the Ramsar Convention within Canadian jurisdictions. The paper provides a general overview of the development, current status and opportunities for the future direction of the Ramsar program in Canada. Comments and suggestions on the content of this paper are welcome at the address below.

Copies of this paper are available from:

 ☑ Habitat Conservation Division Canadian Wildlife Service Environment Canada Ottawa, Ontario
 K1A 0H3

Phone: (819) 953-0485 Fax: (819) 994-4445

Également disponible en français.



Over. 50% recycled paper including 10% post-consumer fibre. Plus de 50 p. 100 de papier recyclé dont 10 p. 100 de fibres post-consumation

# STRATEGIC OVERVIEW OF THE CANADIAN RAMSAR PROGRAM

## Prepared by:

Clayton D.A. Rubec and Manjit Kerr-Upal

September 1996

Habitat Conservation Division
Canadian Wildlife Service
Environment Canada

## TABLE OF CONTENTS

The Ramsar (	Convention	1
Ramsar in No	orth America	2
Ramsar in Ca	ınada	2
Canada's Rai	msar Database	3
Jurisdiction Ecozonal a	f Canada's Ramsar Sitesal Distribution	4 4
Wetland Clas	sification Analysis	8 9
Management Responsibl	of Canadian Ramsar Sitese Authorities for Ramsar in Canadaions for a National Ramsar Committee for Canada	9 13
Conclusions.		15
References		16
Appendix 1:	Ramsar Database Description	17
Appendix 2:	Potential Structure and Activities of a Canadian Ramsar Committee.	18
Appendix 3:	Summary of Opportunities	20

#### THE RAMSAR CONVENTION

The Convention on Wetlands of International Importance, known as the "Ramsar Convention", is a global conservation instrument that promotes the protection and wise use of wetland ecosystems that are important to flora and fauna as well as to a major segment of the World's population. The Convention has been in effect since 1971 and was named after the city in Iran where it was first signed. As of July 1996, 93 nations are Ramsar Convention Contracting Parties, making the Convention one of the most widely adopted conservation treaties in the World.

The Convention requires Contracting Parties to identify and nominate *Wetlands of International Importance* based on criteria developed by the Convention. As of July 1996, 808 wetland sites covering over 54 million hectares (ha) have been designated around the World. By signing the Convention Contracting Parties have agreed to the following conditions:

- (1) maintain the ecological character of their designated Ramsar sites;
- (2) report to the Convention on changes in the ecological character of sites;
- (3) secure these sites for long-term conservation through appropriate regulatory or land use management procedures;
- (4) develop management plans for the sites; and
- (5) implement wetland wise use principles in national land and water use programs and policies.

The Convention focuses on the development of sustainable use of wetland resources by people through its *Wise Use Guidelines* which were established in 1990. To accomplish this, the Convention facilitates the application of research and knowledge through international scientific panels. The Convention also administers the Small Grants Fund, a fund that promotes wetland conservation projects as well as the identification and protection of wetlands around the World. The Convention adopted a *1997-2002 Strategic Plan* in March 1996 charting a six-year course for its activities.

**Opportunity No. 1:** The Government of Canada in cooperation with the provincial and territorial governments, should continue to play an active role in promoting the objectives of the Ramsar Convention internationally through advice and program assistance to other Contracting Parties.

#### RAMSAR IN NORTH AMERICA

North America encompasses 16% of the World's land and freshwater surface area, including an estimated wetland area of 185 million ha. Of this total wetland area, over 14.9 million ha, or about eight percent of the continent's wetlands, are designated as "Wetlands of International Importance" under the Ramsar Convention. In North America, the designated area is comprised of 52 sites, 33 in Canada, 15 in the United States and four in Mexico.

Canada, Mexico and the United States are active partners in the Ramsar Convention, with the North American Ramsar region encompassing these three nations. Many of the North American Ramsar sites are focus areas of the North American Waterfowl Management Plan (NAWMP). Examples within NAWMP's Canadian Habitat Joint Venture program are Quill Lakes in Saskatchewan, Lake Saint Francis in Ontario, and Malpeque Bay in Prince Edward Island. Other Ramsar sites, such as the Queen Maud Gulf and Rasmussen Lowlands in Canada's Northwest Territories, are focus areas for the Arctic Goose Joint Venture, another NAWMP program. The NAWMP and Ramsar Convention are complementary examples of international cooperation working to conserve wetlands. The three nations' joint delivery of the North American Waterfowl Management Plan is one of the continent's most successful international environmental initiatives. It is also an example of the delivery of the Wise Use Principles promoted by the Ramsar Convention.

Opportunity No. 2: Canada, in cooperation with the other North American Ramsar partners (Mexico and the United States), should expand the use of the Ramsar regional framework to promote improved management of continental wetland ecosystems and dependent wildlife populations as well as implement the objectives of the North American Waterfowl Management Plan.

#### RAMSAR IN CANADA

Canada acceded to the Ramsar Convention in 1981 and its subsequent amendments, the 1982 Paris Protocol and the 1987 Regina Amendments. With its accession, the Government of Canada committed itself to the implementation of the objectives and obligations associated with this international wetland conservation treaty. As a result of that commitment, 33 Ramsar sites have been designated across Canada; they are distributed throughout Canada's provinces and territories. These Canadian sites cover over 13 million ha of wetlands, about 10% of the total wetland area estimated to exist in the nation (National Wetlands Working Group 1988). Canada's contribution represents almost 25% of the wetland area designated world-wide under the Convention to date.

Guidance to Contracting Parties on the development of management plans for Ramsar sites has been the subject of several specific documents produced as a result of the meetings at the Conference of the Contracting Parties. A report entitled *Management* 

of Canadian Ramsar Sites (Rubec 1994) describes the guidance provided by the Convention and summarizes the status of management and management plans for the Ramsar sites in Canada. A *Procedures Manual* for the nomination and designation of Canadian Ramsar sites has also been published (Environment Canada 1994). This publication discusses Canada's guidelines and procedures for nominating sites to the *List of Wetlands of International Importance* and summarizes the adopted international criteria for determining site eligibility. A national Ramsar information booklet entitled *Canada and the Ramsar Convention* has also been published (Environment Canada 1995).

#### CANADA'S RAMSAR DATABASE

A national Ramsar database, derived from the original and updated, standardized site descriptions of Canada's Ramsar sites was created in August 1996 by the Habitat Conservation Division of the Canadian Wildlife Service. Information on the location (within provinces, territories, ecozones and wetland regions), size, major ecological features, selection criteria, ownership and other information was transferred into a Microsoft Access database file. Five interrelated tables were created: Administration, Classification, Ecological Information, Landcover and Activities, and Tenure. The fields within all these five tables are listed in Appendix 1.

A wide variety of analyses may be performed with this database, a selection of which have been completed and discussed in this report. Although there are a few gaps in the database that will eventually be completed, it is a valuable data set on the distribution and representativeness of Canada's current Ramsar Site Network. Copies of the Ramsar database are available to those who are interested.

## **DISTRIBUTION OF CANADA'S RAMSAR SITES**

Canada has not yet defined a systematic approach to the designation of its Ramsar sites. To date, sites have been predominantly chosen on the basis of their importance to waterfowl and migratory bird populations as well as their protected area status. Seventy-five percent of Canada's designated Ramsar sites' land area is on federally protected lands and waters such as in national wildlife areas, national parks and migratory bird sanctuaries. A broader basis of Canada's landscape for future Ramsar Sites should be encouraged, drawing upon both its ecological and jurisdictional characteristics.

As illustrated in Figure 1, the first Ramsar site in Canada was designated in 1981. The largest number of Ramsar site nominations occurred in 1982 and 1987 when 15 sites (10.5 million ha) and 11 sites (2.5 million ha) were nominated respectively. During these two years, the 26 designated sites represent 80% of the total number and 99% of the total area of Canadian Ramsar sites nominated to date. The progress made in this period was a result of a concerted cooperative effort by federal and provincial/territorial wildlife agencies to fulfil a national commitment that has ensured the establishment of Ramsar sites in all political jurisdictions.

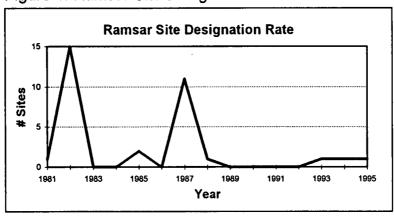


Figure 1. Ramsar Site Designation Rate

#### Jurisdictional Distribution

By 1988, Ramsar sites had been designated in all Canadian provinces and territories. Today, with 59% of the national total, the Northwest Territories possess the largest percentage of land area designated under the Ramsar Convention, almost 7.7 million hectares. Ontario has the largest number of Ramsar sites; seven representing a total of almost 2.5 million hectares. The distribution of Canada's sites by province is summarized in Table 1.

#### **Ecozonal and Ecoregional Distribution**

Ecozones are large ecosystem units that contain distinctive sets of non-living and living resources that are ecologically related as a system (Wiken 1986). Ecoregions are subdivisions of these ecozones, representing a much smaller, more homogeneous ecosystem. As of 1996, Ramsar sites are present in 12 of Canada's 15 ecozones and 25 of the 217 ecoregions in Canada. The ecoregion framework used for this analysis was developed by Wiken *et al.* (1992) and the Ecological Stratification Working Group (1996).

Figure 2 illustrates the spatial distribution of the current Ramsar Site Network within an ecozonal framework. The Southern Arctic ecozone (SA) has the largest total area of land designated under the Ramsar Convention, largely due to Queen Maud Gulf, the World's largest Ramsar site. Some 48% of Canada's total Ramsar designated area is encompassed in this site. The Montane Cordillera (MC) and the Boreal Plains (BP) ecozones include 19% and 16% of the total Ramsar area respectively.

Table 1. Distribution of Canada's Ramsar Site Network

PROVINCE / TERRITORY	RAMSAR SITE NAME	AREA (ha)	% OF TOTAL			
Alberta	Beaverhill Lake	18 050	15.95			
	Hay-Zama Lakes	50 000				
	Peace-Athabasca Delta	321 300				
	Whooping Crane Summer Range*	1 689 500				
British Columbia	Alaksen	586	0.06			
	Creston Valley	6 970				
Manitoba	Oak Hammock Marsh	3 600	0.20			
	Delta Marsh	23 000				
New Brunswick	Mary's Point	1 200	0.14			
	Shepody Bay	12 200				
	Tabusintac River Estuary and Lagoon	4 382				
Newfoundland	Grand Codroy Estuary	925	0.01			
Northwest Territories	Dewey Soper	815 900	59.01			
	McConnell River	32 800	į			
	Polar Bear Pass	262 400				
	Queen Maud Gulf	6 278 200				
	Rasmussen Lowlands	300 000				
Nova Scotia	Chignecto	1 020	0.22			
	Musquodoboit Harbour Outer Estuary	1 925				
	Southern Bight-Minas Basin	26 800				
Ontario	Long Point	13 730	18.82			
	Mer Bleue	3 100				
	Point Pelee	1 564				
	Polar Bear Provincial Park	2 408 700				
	Southern James Bay*	25 290				
	St. Clair	244				
Prince Edward Island	Malpeque Bay	24 440	0.19			
Quebec	Baie de L'Isle Verte	2 028	0.05			
	Cap Tourmente	2 398				
	Lake Saint Francis	2 214				
Saskatchewan	Last Mountain Lake	15 602	0.61			
	Quill Lakes	63 500				
Yukon	Old Crow Flats	617 000	4.74			
TOTAL: 13 030 568 ha						

<sup>\*</sup>Sites that lie partly in the Northwest Territories.

Figure 2. Ramsar Site Network within Canada's Ecozones

	_	_	_	_	_	١.
L	е	a	е	n	а	ı.

	Legena.				
AC	Arctic Cordillera	MWP	Mixedwood Plains		
AM ·	Atlantic Maritime	NA	Northern Arctic		
BC	Boreal Cordillera	Р	Prairies		
BP	Boreal Plains	PM	Pacific Maritime		
BS	Boreal Shield	SA	Southern Arctic		
HP	Hudson Plains	TC	Taiga Cordillera		
MC	Montane Cordillera	TP	Taiga Plains		
		TS	Taiga Shield		

In terms of the number of sites per ecozone, Figure 3 shows that the Atlantic Maritime (AM), Mixedwood Plains (MWP) and Prairie (P) ecozones contain the most number of sites with eight, five and four respectively. It should be noted, however, that the combined total area of all these sites is less than two percent of the total Ramsar site area. Ecozones with only one Ramsar site, namely the Montane Cordillera (MC), Pacific Maritime (PM), Taiga Cordillera (TC) and Taiga Plains (TP) could be target areas for future Ramsar sites. No Ramsar sites are present in three ecozones, the Arctic Cordillera (AC), Taiga Shield (TS) and Boreal Cordillera (BC). All of these ecozones should be incorporated into the future Ramsar site network to ensure a general ecological representation of all wetlands in Canada's landscape.

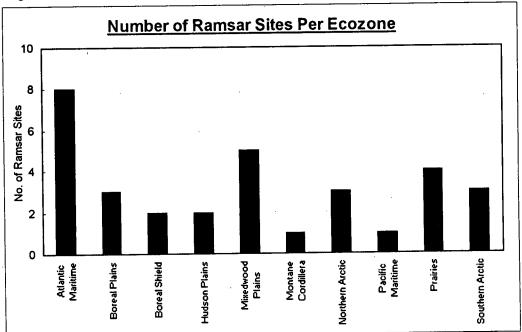


Figure 3. Number of Ramsar Sites Per Ecozone

Ecoregions, a much more detailed ecological unit than ecozones, are expectantly less represented by Canada's current Ramsar Site Network. Less than 12% of Canada's ecoregions include designated Ramsar sites. Ecoregions 123, 132, 135, 136, 156 and 162 (as outlined by the Ecological Stratification Working Group 1996) each have at least two Ramsar sites and would not necessarily be focus areas for future site nominations. Although Canada could concentrate its efforts on achieving full ecozonal distribution, wetland sites in ecoregions not already represented should also be favoured.

## Wetland Regions Distribution

The Wetland Regions of Canada, identified as a primary framework for implementing the goals and strategies of The Federal Policy on Wetland Conservation (Government of Canada 1991) would serve as a framework for implementing Ramsar goals equally as well as ecozones. One of the major considerations in developing the Policy was its delivery of Canada's commitments to the Ramsar Convention. Provincial wetland policies and programs also contribute to the delivery of these commitments.

Table 2 presents a summary of the distribution of Canadian Ramsar sites in terms of the *Wetland Regions of Canada* framework (National Wetlands Working Group 1986). This framework is a useful basis for an ecological gap analysis of the Ramsar Site Network's representativeness of Canada's diverse wetland forms. Of particular note should be the wetland regions that have no representative wetlands as well as those with only one. Only 15 of Canada's 39 wetland regions and subregions include Ramsar sites.

Table 2. Ramsar Distribution within Wetland Region Framework

No. of Sites	Wetland Region*
0	BAe, BAg, BAi, BAn, BAo, BHh, BMh, BMt, MCc, MCn, MCs, ME, Mic, Min, Mis, MRc, MRn, MRs, OA, OPn, OPs, PI, SAc, SAo
1	AH, AL, BAc, BMc, TP
2	BL, PCa, PCg, SH, SL
3	AM, BAm, BHc
4	BAa
5 (or more)	TE (6)

<sup>\*</sup> Wetland Regions (National Wetlands Working Group 1986).

Legend. Canadian Wetland Regions\*

A Arctic	BM Mid-Boreal	O Oceanic
AH High Arctic	BMc Continental	OA Atlantic Oceanic
<ul> <li>AL Low Arctic</li> </ul>	BMh Humid	OP Pacific Oceanic
AM Mid-Arctic	BMt Transitional	OPn North Coast
BA Atlantic Boreal	MC Coastal Mountain	OPs South Coast
BAa Acadian	MCn North	PC Continental Prairie
BAc Coastal	MCc Central	PCa Aspen Parkland
BAe Eastern	MCs South	PCg Grassland
BAg Gulf	ME Eastern Mountains	Pl Intermountain Prairie
BAi Interior	MI Interior Mountains	S Subarctic Arctic
BAm Maritime	MIn North	SH High Subarctic
BAn Northern	Mlc Central	SL Low Subarctic
BAo Oceanic	Mls South	SA Atlantic Subarctic
BH High Boreal	MR Rocky Mountains	SAc Coastal
BHc Continental	MRn Northern	SAo Oceanic
BHh Humid	MRc Central	TE Eastern Temperate
BL Low Arctic	MRs Southern	TP Pacific Temperate

<sup>\*</sup> Wetland Regions (National Wetlands Working Group 1986).

#### WETLAND CLASSIFICATION ANALYSIS

The Canadian Wetland Classification System developed by the National Wetlands Working Group (1987), classifies wetlands on the basis of their biotic and abiotic environment (flora, fauna, peat, hydrology, water quality, climate, bedrock, soil and basin morphology). The five main wetland classes (bog, fen, marsh, swamp and shallow open water) are further classified into 70 wetland forms. An analysis of the distribution of Canada's wetlands in the Ramsar Site Network indicates that all five of the wetland classes are represented, but all Canadian wetland forms are not. Of the 70 wetland forms present in Canada, 31 are represented within the Ramsar Site Network, 14 of which are listed as the dominant wetland forms on individual Ramsar sites. Table 3 lists the wetland forms as described by the Canadian Wetland Classification System, the number of Ramsar sites including examples of that wetland form and the frequency of each form's dominance in the

Ramsar Site Network. There are several wetland forms widely represented in Canada's Network. Coastal marsh, estuarine shallow water, shallow basin water, shore water and tidal water wetland forms are each found in 10 or more Ramsar sites in Canada.

**Opportunity No. 3:** Additional Wetlands of International Importance should be identified and nominated in poorly represented wetland regions and subregions, or ecozones and ecoregions, for Canada's network of Ramsar sites.

Opportunity No. 4: Nomination priority should be given to wetland forms not yet represented as well as those represented in only one Ramsar site.

#### Selection Criteria

Wetlands are selected for the *List of Wetlands of International Importance* due to their international importance established on the basis of ecological, botanical, zoological, hydrological, fisheries and human use criteria. Sites can be nominated based on their representativeness of rare or unusual wetland types in a biogeographical region or their being particularly good examples of wetlands in such a region. Selection criteria have been established by the Ramsar Convention and are summarized in the *Ramsar Procedures Manual* (Environment Canada 1994).

Opportunity No. 5: In addition to sites supporting internationally important migratory species, Canadian Ramsar sites should be nominated focusing on the Ramsar criteria recognizing Canadian wetlands that are: examples of wetlands characteristic of Canada; common wetland types in wetland regions or ecozones; examples of wetlands that serve major roles in the hydrological, biological and ecological functioning of major river basin or coastal systems in Canada; and rare or unusual wetland types in these wetland regions.

#### MANAGEMENT OF CANADIAN RAMSAR SITES

As illustrated in Figure 4, the current distribution of land tenure and management responsibility of Canadian Ramsar sites is heavily weighted on federal agencies. While this may create the impression that Ramsar is primarily a federal program in Canada, it must be recognized that this stems from the history of designation of sites to date. The majority of areas and sites designated thus far have been on federal land, largely in the northern territories. However, Ramsar sites do include lands owned by all provinces and territories as well as private groups including the First Nations community.

Table 3. Wetland Forms Represented in Canada's Ramsar Network<sup>1</sup>

WETLAND FORM	# SIT	ΓES	WETLAND FORM		# SITES	
	Pres.	Dom.		Pres.	Dom.	
BOG			MARSH			
Atlantic Plateau Bog	0	-	Active Delta Marsh	4	2	
Basin Bog	0	-	Channel Marsh	1	_	
Blanket Bog	0	-	Coastal High Marsh	11	4	
Collapse Scar Bog	0	-	Coastal Low Marsh	9	3	
Domed Bog	7	1	Estuarine High Marsh	0	-	
Flat Bog	0	-	Estuarine Low Marsh	1	1	
Floating Bog	0	-	Floodplain Marsh	6	-	
Lowland Polygon Bog	5	2	Inactive Delta Marsh	· 0	-	
Mound Bog	0		Kettle Marsh	1	-	
Northern Plateau Bog	0	-	Seepage Track Marsh	0	-	
Palsa Bog	1	-	Shallow Basin Marsh	3		
Peat Mound Bog	0	-	Shore Marsh	9	7	
Peat Plateau Bog	3	2	Stream Marsh	2		
Polygonal Peat Plateau Bog	0	-	Terminal Basin Marsh	2	-	
Shore Bog	0	-	Tidal Freshwater Marsh	2		
Slope Bog	0	-	SWAMP			
String Bog	0	-	Basin Swamp	2	-	
Veneer Bog	0	-	Flat Swamp	0		
FEN			Floodplain Swamp	5	1	
Atlantic Ribbed Fen	0	Ι -	Peat Margin Swamp	1	_ <b>-</b> _	
Basin Fen	1	-	Shore Swamp	8		
Channel Fen	1		Spring Swamp	0_	L <u>-</u>	
Collapse Scar Fen	0	-	Stream Swamp	0	<u> </u>	
Feather Fen	0	-	SHALLOW OPEN WATER			
Floating Fen	1	-	Channel Water	1	_	
Horizontal Fen	Ö	-	Delta Water	4	_	
Ladder Fen	0	-	Estuarine Water	11	3	
Lowland Polygon Fen	1	-	Kettle Water	2	-	
Net Fen	0	-	Non-tidal Water	5	-	
Northern Ribbed Fen	1	† <u>-</u>	Oxbow Water	0	-	
Palsa Fen	0	-	Shallow Basin Water	19	1	
Shore Fen	1	1	Shore Water	16	1	
Slope Fen	0	1-	Stream Water	3	<u>-</u>	
Snowpatch Fen	1	-	Terminal Basin Water	0	_ ·	
Spring Fen	0	-	Thermokarst Water	1	-	
Stream Fen	1	1 -	Tidal Water	12	2	
			Tundra Pool Water	5	2	
		1	Marine Waters <sup>2</sup>	9		

<sup>&</sup>lt;sup>1</sup>Forms as defined in National Wetland's Working Group (1987, 1988).

 $<sup>^{2}</sup>$  "Marine Waters" are recognized as a wetland category by the Ramsar Convention and include waters out to 6 m depth at low tide.

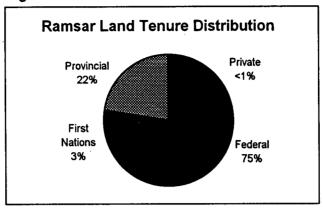


Figure 4. Ramsar Land Tenure Distribution

In terms of the number of sites, almost half of the 33 sites designated to date in Canada are under provincial and non-government jurisdiction, yet these sites represent only about 25% of the total Ramsar area designated thus far. The Government of Canada has nominated at least 75% of the total Ramsar Site area, three times the combined designated wetland area under provincial, territorial, private and First Nations jurisdiction.

The federal government manages less than 30% of the wetlands of the nation, yet as noted above, it carries the greatest responsibility for Ramsar in Canada. Hence, to encourage broader representation of the full range of Canadian wetland types found in other jurisdictions, the gaps in the existing Ramsar Network should be examined. The national network of Ramsar sites could appropriately include a selection of new sites chosen from other (i.e. non-federal) jurisdictions and by groups with the dominant management authority and tenure of Canada's wetlands.

Despite the presence of Ramsar sites within each of Canada's provinces and territories, not all provincial governments have been actively involved in the management of the network. However, nomination of additional sites by provincial and non-government agencies is growing. Recent nominations in New Brunswick and British Columbia have been for sites entirely under provincial jurisdiction.

Opportunity No. 6: Notwithstanding the significant lead role the federal government has taken in Ramsar to date in Canada, provincial, territorial, native and non-government agencies should represent the major "on-the-ground" initiators of a significant portion of the future Ramsar site designations and program implementation in Canada.

Many Canadian Ramsar sites have management responsibilities shared between several co-operating parties. Land tenure or management responsibility, in whole or in part, for Canada's 33 Ramsar sites is outlined in Tables 4, 5 and 6.

Table 4. Provincial and Territorial Government Agencies

AGENCY	SITE NAME
Alberta Department of Environmental Protection	Beaverhill Lake
	Hay-Zama Lakes
	Peace-Athabasca Delta
British Columbia Ministry of Environment, Lands and Parks	Creston Valley Wildlife Management Area
Long Point Region Conservation Authority (Ontario)	Long Point
Manitoba Department of Natural Resources	Delta Marsh
	Oak Hammock Marsh
New Brunswick Department of Natural Resources and Energy	Mary's Point
	Shepody Bay
	Tabusintac River Estuary and Lagoon
Newfoundland and Labrador Department of Natural Resources	Grand Codroy Estuary
Nova Scotia Department of Natural Resources	Musquodoboit Harbour Outer Estuary
	Southern Bight - Minas Basin
Ontario Ministry of Natural Resources	Long Point
	Polar Bear Provincial Park
	Southern James Bay Migratory Bird
	Sanctuaries
Prince Edward Island Department of Environmental Management	Malpeque Bay
Quebec Ministry of Environment and Wildlife	Baie de L'Isle Verte
Saskatchewan Department of Environment and Resource Management	Quill Lakes
Yukon Renewable Resources	Old Crow Flats

Table 5. Non-Government Agencies

ORGANIZATION	PROV.	SITE NAME
Delta Waterfowl Foundation	MB	Delta Marsh
Ducks Unlimited Canada	MB	Delta Marsh
		Oak Hammock Marsh
	BC	Creston Valley Wildlife Management Area
	SK	Quill Lakes
	ON	St. Clair National Wildlife Area
	1	Long Point
	QB	Cap Tourmente National Wildlife Area
	NB	Mary's Point
		Shepody Bay
Island Nature Trust	PEI	Malpeque Bay
Lennox Island First Nation	PEI	Malpeque Bay
Long Point Company	ON	Long Point
Nunavut Agreement	NWT	McConnell River Migratory Bird Sanctuary
	· ·	Dewey Soper Migratory Bird Sanctuary
		Queen Maud Gulf Migratory Bird Sanctuary
		Rasmussen Lowlands
Vuntut Gwich'in First Nation	YK	Old Crow Flats
Other Private Landowners	MB	Delta Marsh
	ON	Long Point
	PEI	Malpeque Bay
	NS	Southern Bight - Minas Basin
	NB	Tabusintac Lagoon and River Estuary
, in the second	ŀ	Shepody Bay

Table 6. Federal Government Agencies

AGENCY	PROV.	SITE NAME
Canadian Wildlife Service	BC	Alaksen National Wildlife Area
		Creston Valley Wildlife Management Area
	SK	<ul> <li>Last Mountain Lake National Wildlife Area</li> </ul>
	ON	St. Clair National Wildlife Area
		<ul> <li>Long Point National Wildlife Area</li> </ul>
		Southern James Bay Migratory Bird Sanctuaries     (also in NWT)
	QB	Baie de l'Isle-Verte National Wildlife Area
·		Cap Tourmente National Wildlife Area
		<ul> <li>Lake Saint Francis National Wildlife Area</li> </ul>
	NB	Mary's Point
		Shepody Bay
	NS '	Chignecto National Wildlife Area
		Southern Bight - Minas Basin
	NWT	Dewey Soper Migratory Bird Sanctuary
		McConnell River Migratory Bird Sanctuary
		Polar Bear Pass National Wildlife Area
		Queen Maud Gulf Migratory Bird Sanctuary
Indian and Northern Affairs Canada	NWT	Rasmussen Lowlands
		Whooping Crane Summer Range
	YK	Old Crow Flats
National Capital Commission	ON	Mer Bleue
Parks Canada	ON	Point Pelee National Park
	AB	Peace-Athabasca Delta
		Whooping Crane Summer Range (also in NWT)
	YK	Old Crow Flats

Opportunity # 7: Communications to Ramsar partners in Canada should highlight the broad base of participation in the delivery of national Ramsar initiatives, as well as the mix of federal, non-federal government and non-government involvement.

## Responsible Authorities for Ramsar in Canada

The federal Minister of the Environment has been delegated authority by the Minister of Foreign Affairs and International Trade for the administration of the Ramsar Convention's responsibilities. The designated lead agency for the implementation of the Convention in Canada is the Canadian Wildlife Service of Environment Canada.

The Minister of the Environment has the following Ramsar responsibilities:

 Approving the nomination of Canadian sites as Wetlands of International Importance on behalf of federal, provincial, and territorial governments and non-government interests.

- Nominating, for the consideration of the Minister of Foreign Affairs and International Trade, the Canadian Delegations to Meetings of the Conference of the Contracting Parties which are held every three years.
- Facilitating interaction and development of agreements among Ramsar Contracting Parties to promote wetland conservation consistent with Canada's international strategy as articulated in *The Federal Policy on Wetland Conservation*.

The following Ramsar activities are delegated to Environment Canada officials:

- The Director of the Wildlife Conservation Branch, Canadian Wildlife Service, acts as the senior government official for all matters related to Canada's participation in the Ramsar Convention and for administering its implementation within Canada.
- The Director of the Wildlife Conservation Branch, Canadian Wildlife Service, is the current alternative representative for the North American Region on the Standing Committee of the Ramsar Convention for the 1997-1999 Triennium.

## Considerations for a National Ramsar Committee for Canada

A variety of deliberations at the Meetings of the Conference of the Contracting Parties to the Ramsar Convention have dealt with national Ramsar committees. Recommendation C.5.7 adopted in 1993 encourages Contracting Parties to establish national Ramsar committees according to the needs of each nation. The Convention felt that national Ramsar committees can:

- provide a focus at the national level for implementation of the Convention, serving to encourage input from both governmental and non-governmental organizations;
- establish a mechanism to facilitate reporting to the Convention on national activities;
- facilitate responses to requests for information by the Ramsar Bureau and other agencies.

To date, Canada has coordinated the nation's Ramsar initiatives through the Canadian Wildlife Service, and since 1990, the Canadian Ramsar Network in cooperation with the Secretariat to the North American Wetlands Conservation Council (Canada). This Network has acted to distribute Ramsar newsletters and publications as well as to gather information on the implementation of Ramsar goals within Canada. The formalizing of a national Ramsar Committee could serve to strengthen this network and provide continuity for participating agencies.

The creation of the North American Wetlands Conservation Council (NAWCC)(Canada) in 1990 has facilitated coordination of wetland conservation and policy initiatives across Canada. The NAWCC (Canada) through its Secretariat has been mandated by the Minister of Environment to promote coordination of Canadian involvement in international wetland conservation initiatives. As most parties currently represented on the NAWCC (Canada) also hold management responsibility for Ramsar sites in Canada, there exists a natural opportunity for the NAWCC (Canada) to oversee a Canadian Ramsar Committee. A proposed terms of reference for this committee is presented in Appendix 2.

In consultation with the Canadian Wildlife Service, the NAWCC (Canada) would be well placed to provide timely and effective coordination of a Canadian Ramsar Committee and program. This would be established to complement and assist in the delivery of Canada's international obligations and responsibilities under the Convention. Such a committee, if constituted as a subcommittee of the NAWCC (Canada), would receive logistical support from the NAWCC (Canada) Secretariat and Environment Canada.

Opportunity No. 8: A Canadian Ramsar Committee should be established as a subcommittee of the North American Wetlands Conservation Council (Canada), chaired by the Director of Wildlife Conservation, Canadian Wildlife Service.

#### CONCLUSIONS

The Canadian Ramsar program and its network of 33 Ramsar sites has evolved progressively in Canada over the 1981 to 1996 period. This Network now involves many co-operating partners traversing all the provincial and territorial jurisdictions of Canada. It also represents a wide array of government and non-government interests.

The future direction of the delivery of the goals of the Ramsar Convention and Canada's commitments to this Convention can be well served by formalizing a Canadian Ramsar Committee in the near future, building upon the now well established Canadian Ramsar Network. This national committee could be organized under the leadership of the Canadian Wildlife Service and supported by the Secretariat to the North American Wetlands Conservation Council (Canada).

Eight opportunities are identified in this paper to facilitate the future activities of the Ramsar program in Canada and create a National Ramsar Committee. These opportunities are summarized in Appendix 3.

#### REFERENCES

Ecological Stratification Working Group. 1996. A National Ecological Framework for Canada. Agriculture and Agri-Food Canada and Environment Canada. Ottawa, Ontario. 125 p., appendices and database.

Environment Canada. 1994. Nomination and Listing of Wetlands of International Importance in Canada. Procedures Manual. Canadian Wildlife Service, Environment Canada. Ottawa, Ontario. 16 p.

Environment Canada. 1995. Canada and the Ramsar Convention. Booklet. Canadian Wildlife Service, Environment Canada. Ottawa, Ontario. 20 p.

Government of Canada. 1991. *The Federal Policy on Wetland Conservation*. Environment Canada. Ottawa, Ontario. 14 p.

National Wetlands Working Group. 1986. Canada's Wetlands. (a) Canada — Wetland Regions. (b) Canada — Wetland Distribution. Map folio. Energy, Mines and Resources Canada and Environment Canada. Ottawa, Ontario.

National Wetlands Working Group. 1987. *The Canadian Wetland Classification System*. Ecological Land Classification Series, No. 21. Sustainable Development Branch, Environment Canada. Ottawa, Ontario. 14 p.

National Wetlands Working Group. 1988. Wetlands of Canada. Ecological Land Classification Series, No. 24. Sustainable Development Branch, Environment Canada and Polyscience Publications Inc. Montreal, Quebec. 452 p.

Rubec, C.D.A. 1994. *Management of Canadian Ramsar Sites*. North American Wetlands Conservation Council (Canada) and Canadian Wildlife Service, Environment Canada. Ottawa, Ontario. 92 p.

Wiken, E.B. 1986. *Ecozones of Canada*. Lands Directorate, Environment Canada. Ottawa, Ontario. 26 p.

Wiken, E.B., C.D.A. Rubec and G. Ironside. 1992. *Terrestrial Ecoregions of Canada*. Map No. MCR 4164. National Atlas of Canada, Energy Mines and Resources Canada. Ottawa, Ontario.

## **APPENDIX 1:** Ramsar Database Description

The following is a listing of all the tables contained in the Ramsar database and their respective fields. Common fields (i.e. Reference Number) make the tables interrelated. The database is presently in Microsoft Access format. Copies of the Ramsar database are available to those who are interested.

ADMINISTRATION	CLASSIFICATION	ECOLOGICAL INFORMATION	LANDCOVER AND ACTIVITIES	TENURE
Reference Number	Reference Number	Reference Number	Reference Number	Reference Number
Name	Name	Name	Name	Name
Province	Total Area	Inclusion Criteria	Site Activities	Province
Geographical Region	Wetland Region	Application Criteria	Site Adverse Activities	Tenure - Federal
Lat. / Long.	Ramsar Wetland Types	Social Values	Total Area	Tenure - Provincial
Ecozone	Dominant Ramsar Wetland	Other Recorded	Land Cover (LC) -	Tenure - First Nations
Ecoregion	Туре	Values	Wetland	Tenure - Private
Wetland Region	Area of Dominant Ramsar	No. Recorded	LC - Big Trees	Adjacent Tenure
Date Established	Wetland Type	Invasive Plants	LC - Small Trees	
Total Area	Canadian Wetland Forms	No. Recorded	LC - Crops	
Site Tenure	Represented	Fauna at Risk	LC - Grass	
Contact Name	Dominant Canadian	No. Recorded Flora	LC - Moss	
Contact Number	Wetland Form	at Risk	LC - Rock	
Other Protection Status	Area of Dominant Canadian Wetland Form	Total No. Species at Risk	LC - Unconsolidated Material	
Mgmt. Plan Status			LC - Structures	
			LC - Water	
			LC - Ice	

## <u>APPENDIX 2:</u> Potential Structure and Activities of a Canadian Ramsar Committee

#### **Objectives:**

The following objectives of a Canadian Ramsar Committee should be considered:

- 1. To foster the establishment of an effective set of program initiatives by Canadian jurisdictions that deliver Canadian commitment to the goals of the Ramsar Convention.
- 2. To establish and review every three years a strategic course of action for the delivery of the goals and commitments of the Ramsar Convention in Canada.

#### Organization:

- Act as subcommittee of the North American Wetlands Conservation Council (Canada) (NAWCC- Canada).
- Be chaired by the Director of Wildlife Conservation, Canadian Wildlife Service (CWS).
- Receive logistical support from the NAWCC (Canada) Secretariat and CWS.

#### **Activities:**

A Canadian Ramsar Committee would establish a multi-year work plan including the following range of activities:

- (1) Communication: Ensuring effective communication on the Ramsar program by:
  - (a) maintenance of a comprehensive Canadian mailing and contact network of federal, provincial, territorial, academic and non-government managers, researchers and scientists (the "Canadian Ramsar Network") currently involved with and/or interested in the Ramsar Convention and Canadian Ramsar sites.
  - (b) **distribution** of publications, newsletters and announcements from the Ramsar Bureau in Switzerland and other international wetland conservation agencies to Canadian interests.
  - (c) development and publication of Canadian Ramsar Network working reports providing up-to-date information and advice on the management of Canadian Ramsar sites and implementation of Ramsar goals in Canada.
  - (d) **sponsorship** of regional workshops to sensitize Canadian environmental and natural resources managers and agencies on the role and activities of the Ramsar Convention in Canada.
  - (e) **promotion** of the value of the Ramsar Convention as a complementary tool to other international, national and regional wetland policy and management programs such as the North American Waterfowl Management Plan.

- (2) Network Responsibilities: Facilitating effective and timely national responses to requirements of the Ramsar Convention by synthesizing information in support of Canada's international commitments to the Convention by:
  - (a) **expansion** of the role of the Canadian Ramsar Network to seek required information on sites, monitoring procedures, and advice on preparation of Canadian positions.
  - (b) **publication** of periodic national reports on the status of Canadian wetland conservation programs, Ramsar sites and other relevant activities in consultation with the Canadian Ramsar Network for circulation to Meetings of the Conference of the Contracting Parties to the Ramsar Convention.
  - (c) **contribution** of Canadian information in cooperation with Mexico and the United States to North America Ramsar Region reports on the current status of wetland conservation programs, Ramsar sites and other relevant activities for circulation to Meetings of the Conference of the Contracting Parties to the Ramsar Convention.
  - (d) **facilitating** wider participation of Canadian interests in the Canadian delegations to Meetings of the Conference of the Contracting Parties to the Ramsar Convention.
  - (e) **promotion** of federal and provincial/territorial wetland policy initiatives that foster delivery of the commitments of the Ramsar Convention's Wise Use Principles.
- (3) Designation of Canadian Ramsar Sites: Fostering the expansion of the number of Canadian Ramsar sites from the current network of sites designated by:
  - (a) **distribution** of the report, *Nomination and Listing of Wetlands of International Importance in Canada: Procedures Manual* and the booklet *Canada and the Ramsar Convention*, to agencies considering nominating wetland sites in Canada for designation under the Convention.
  - (b) **promotion** of the nomination of more Ramsar sites in Canada particularly on non-federal lands and waters and those of private and aboriginal tenure and under- represented wetland forms.
  - (c) **identification** of internationally-important wetlands representative of all of the wetland regions or ecozones in Canada, particularly in wetland regions or ecozones where no Ramsar sites are currently designated.
  - (d) **monitoring** of a list of potential Canadian Ramsar sites and providing assistance to bring forward nominations wherever possible.

## **APPENDIX 3:** Summary of Opportunities

#### **Opportunity No. 1:**

The Government of Canada in cooperation with the provincial and territorial governments, should continue to play an active role in promoting the objectives of the Ramsar Convention internationally through advice and program assistance to other Contracting Parties.

#### **Opportunity No. 2:**

Canada, in cooperation with the other North American Ramsar partners (Mexico and the United States), should expand the use of the Ramsar regional framework to promote improved management of continental wetland ecosystems and dependent wildlife populations as well as implement the objectives of the North American Waterfowl Management Plan.

#### **Opportunity No. 3:**

Additional Wetlands of International Importance should be identified and nominated in poorly represented wetland regions and subregions, or ecozones and ecoregions, for Canada's network of Ramsar sites.

#### **Opportunity No. 4:**

Nomination priority should be given to wetland forms not yet represented as well as those represented in only one Ramsar site.

#### **Opportunity No. 5:**

In addition to sites supporting internationally important migratory species, Canadian Ramsar sites should be nominated focusing on the Ramsar criteria recognizing Canadian wetlands that are: examples of wetlands characteristic of Canada; common wetland types in wetland regions or ecozones; examples of wetlands that serve major roles in the hydrological, biological and ecological functioning of major river basin or coastal systems in Canada; and rare or unusual wetland types in these wetland regions.

## **Opportunity No. 6:**

Notwithstanding the significant lead role the federal government has taken in Ramsar to date in Canada, provincial, territorial, native and non-government agencies should represent the major "on-the-ground" initiators of a significant portion of the future Ramsar site designations and program implementation in Canada.

## Opportunity No. 7:

Communications to Ramsar partners in Canada should highlight the broad base of participation in the delivery of national Ramsar initiatives, as well as the mix of federal, non-federal government and non-government involvement.

## **Opportunity No. 8:**

A Canadian Ramsar Committee should be established as a subcommittee of the North American Wetlands Conservation Council (Canada), chaired by the Director of Wildlife Conservation, Canadian Wildlife Service.