

# THE ST. LAWRENCE CENTRE

FOR  
CONCERTED  
ACTION



ST. LAWRENCE ACTION PLAN



145035

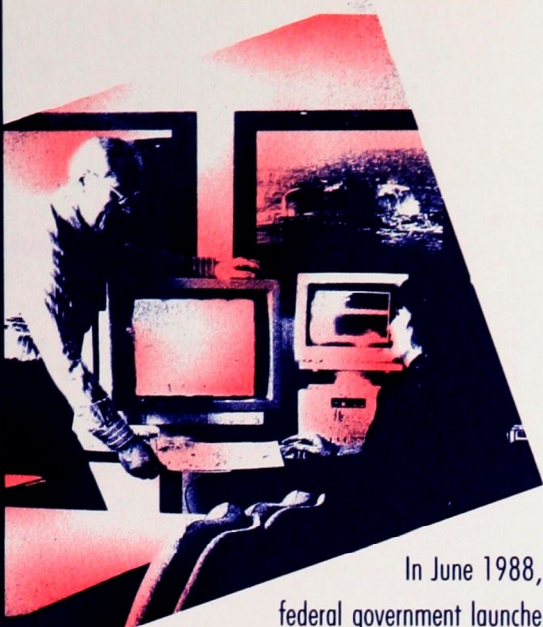


Environment  
Canada  
Conservation and  
Protection

Québec Region

Environnement  
Canada  
Conservation et  
Protection

Région du Québec



**THE**  
**ST. LAWRENCE**  
**CENTRE:**  
**ITS RAISON**  
**D'ÊTRE**

In June 1988, the federal government launched an ambitious action plan designed to restore, protect and conserve the St. Lawrence River.

The St. Lawrence Centre is a new structure with the Conservation and Protection Service of Environment Canada which manages 50 percent of the St. Lawrence Action Plan's \$110 million budget and is responsible for 60 percent of its planned activities.

Acting as catalyst and integrator, the St. Lawrence Centre brings together a group of experts who, in turn, team up with the Action Plan partners. While playing a central role in conserving and protecting the St. Lawrence River, the Centre also intends to promote and stimulate, on the provincial and national level, the development of internationally recognized expertise in the management of large river systems.

**PRECISE**  
**MANDATES**

- Develop and promote the application of state-of-the-art environmental technologies
- Assess the extent and impact of contamination of the St. Lawrence
- Develop expertise in the management of large river systems
- Prepare a state-of-the-environment report on the St. Lawrence
- Disseminate results and information gathered through the Action Plan

**STRATEGY**  
**AND**  
**APPROACH**

The approach adopted by the St. Lawrence Centre is simple: it focusses the joint efforts of the Centre's experts and those of the milieu on specific projects. It also promotes direct application of the results obtained through this scientific and technical research.

Partnership is an essential ingredient for the success of the St. Lawrence Action Plan. Federal and provincial departments and agencies, non-governmental groups devoted to the conservation and protection of the environment, university and scientific communities, as well as private enterprise are among the Centre's privileged partners.

## TECHNOLOGICAL DEVELOPMENT

CHIEF: YVAN VALIQUETTE  
(514) 283-3557

### OBJECTIVES

#### SHORT-TERM

To promote the development and transfer of industrial decontamination technologies that are suited to the particular conditions of the St. Lawrence and the milieu's socio-economic reality

#### LONG-TERM

To stimulate the growth of the environmental industry, more specifically by promoting the creation of centres of expertise and excellence in environmental technologies

### ACTIVITIES

#### INDUSTRIAL TECHNOLOGIES

- Research work to find industrial technologies which are the most effective in environmental terms
- Promotion and support of tests, pilot projects and demonstrations of manufacturing processes and methods for treating effluents and residual sludge

#### TECHNOLOGIES FOR THE MANAGEMENT OF DANGEROUS WASTES

- Identification and development of technologies for the treatment, recuperation, re-use and revitalization of dangerous wastes and contaminated sites, with respect to the St. Lawrence Action Plan

#### RESTORATION TECHNOLOGIES

- Dredging technologies: preparation of guidelines, drawing up of procedures, evaluation of dredging equipment currently being used, creation of data banks
- Technologies for the disposal of sediments: evaluation of the possibility of creating new habitats from dredged material



**E C O T O X I C O L O G Y A N D E C O S Y S T E M S**

**CHIEF: LYNNE CLEARY  
(514) 283-6499**

**OBJECTIVES**

**SHORT-TERM**

- To provide adequate analytical support to the partners of the St. Lawrence Action Plan
- To broaden current knowledge concerning the transport of toxic pollutants, their accumulation and their distribution throughout the river environment

- To develop an ecotoxicological approach which takes into account the St. Lawrence's various ecosystems

**LONG-TERM**

- To promote the creation of centres of expertise and excellence in the fields of ecotoxicology and organic chemistry
- To closely monitor the evolution of the river environment

**ACTIVITIES**

**ECOTOXICOLOGY AND LABORATORIES**

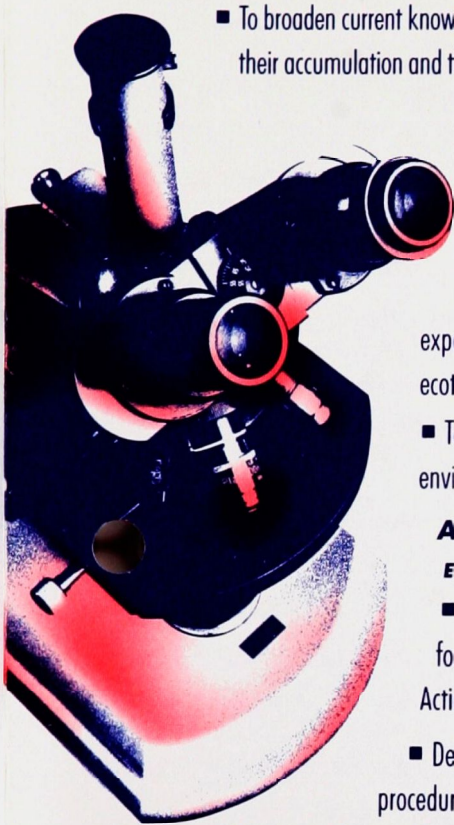
- Full analytical support and quality control for the activities carried out under the St. Lawrence Action Plan
- Development of sophisticated ecotoxicological procedures
- Development of ecotoxicological tools

**TOXIC INPUTS AND ECOSYSTEMS**

- Global evaluation of toxic substances present in the environment, their effects on biological communities and the risks they present for humans
- Development of a series of mathematical, ecotoxicological, biological and ecological indices which will enable the St. Lawrence Action Plan to be fully operational
- Study of the environmental impact of toxic wastes, particularly of the way pollutants are transported throughout the various physical components of the ecosystems
  - Ongoing synthesis of knowledge acquired and data collected on the St. Lawrence's ecosystems

**HYDROLOGY AND NETWORKS**

- Operation of the networks which monitor the quality and quantity of water for the Québec region



**ST. LAWRENCE CENTRE**

105 McGill Street  
Suite 400  
Montreal, Québec  
H2Y 2E7

Tel.: (514) 283-7000  
Fax: (514) 283-1719  
(514) 283-9451

**IN SAINTE-FOY:**

1141, route de l'Église  
6<sup>e</sup> Floor, P.O. Box 10,100  
Sainte-Foy, Québec  
G1V 4H5

Tel.: (418) 648-5095  
Fax: (418) 649-6213



---

## KNOWLEDGE OF THE STATE OF THE ENVIRONMENT

CHIEF: MICHEL PROVENCHER  
(514) 283-3668

### OBJECTIVES

- To derive an overall view of the current state of the river environment
- To synthesize all the data collected to date concerning the biophysical and socio-economical aspects of the river, as well as its uses
- To develop approaches and tools for closely monitoring the evolution of the river environment
- To produce and disseminate factual, precise information to various publics concerning the state of the river, by preparing state-of-the-environment reports and implementing of a computerized network

### ACTIVITIES

#### MANAGEMENT AND DISSEMINATION OF INFORMATION

- Management and quality control of environmental data, supervision of the development of sophisticated computer aids to be used to integrate, analyse and disseminate this information
- Operation of an environmental data-processing centre and a bibliographical reference centre on the St. Lawrence, including various data banks managed by the Centre and other partners of the St. Lawrence Action Plan
- Operation of a computerized spatial analysis system which enables experts and the public to quickly visualize the current environmental situation and monitor the evolution of any given segment of the river

#### COORDINATION AND STATE-OF-THE-ENVIRONMENT REPORT

- Liaison between all activity sectors of the St. Lawrence Action Plan, in order to merge the results obtained by each into state-of-the-environment reports
- Monitoring of the evolution of the river environment and recommendations for actions to be taken to decontaminate, restore and conserve the St. Lawrence River
- Preparation and dissemination of fact sheets, maps and other materials which indicate the various uses of the river, in terms of environmental quality

