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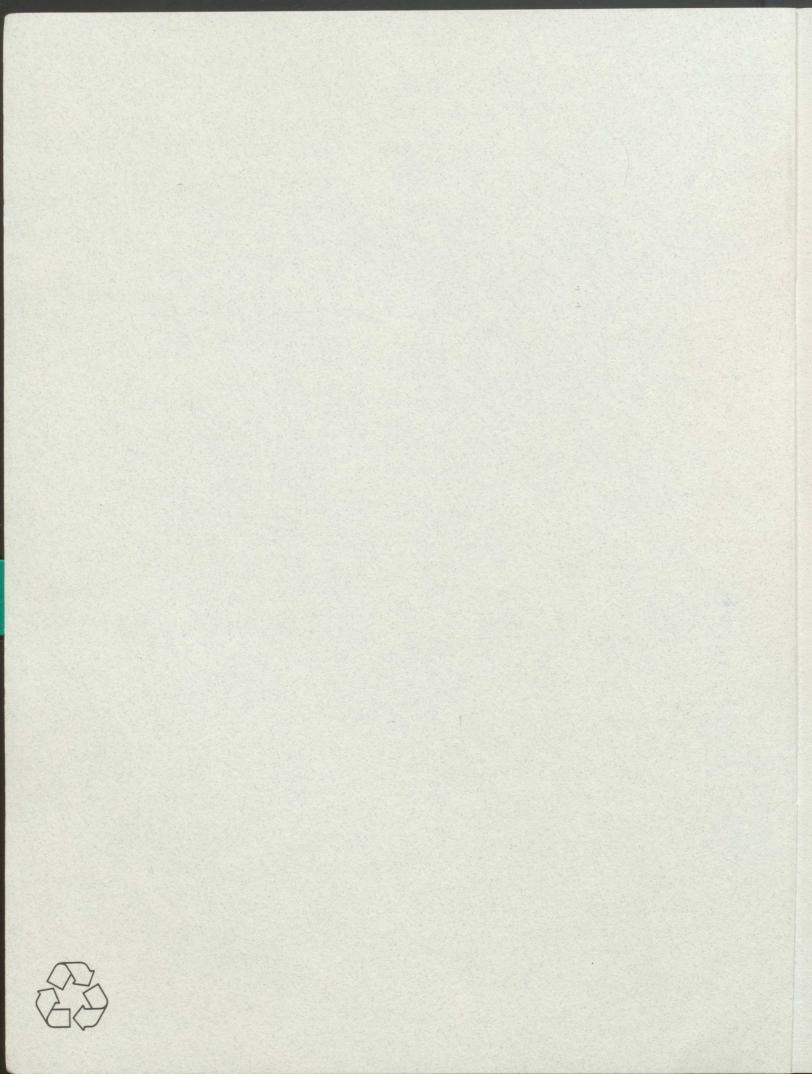
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July 1990



Great Lakes Regional Office
Windsor, Ontario



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INTERNATIONAL JOINT COMMISSION

The Boundary Waters Treaty of 1909 between the United States and Canada established the International Joint Commission to serve as a binational body with three members appointed by each country. The Commission act as a single body seeking common solutions rather than as separate national delegates representing the positions of their Governments. Though the Treaty was entered into primarily to prevent disputes regarding the use of boundary waters and to provide for the adjustment and settlement of questions arising between the two countries along their common frontier, it has provided the framework for cooperation on questions relating to air and water pollution and the regulation of water levels and flows.

The Commission issues Orders of Approval in response to <u>Applications</u> for the use, obstruction or diversion of waters that flow along, and in certain cases across, the boundary if such uses would affect the natural water levels or flows on the other side.

The Commission also undertakes investigations of specific issues, or monitors situations, when requested by Governments. Implementation of IJC recommendations made under such **References** is at the discretion of the two Governments.

Experts from both countries serve on technical boards for the Commission to carry out the required studies and field work. Boards of Control are appointed by the IJC to report on compliance with Orders of Approval, while study or advisory boards assist in References. Public hearings and other opportunities for input by interested citizens are organized when Applications and References are considered.

IJC recommendations concerning pollution in the Great Lakes served as the basis for the Governments to create the Great Lakes Water Quality Agreement, which was signed by the Prime Minister of Canada and the President of the United States on April 15th, 1972.

Six years later, on November 22, 1978, a revision to the 1972 Agreement was signed. It provided new programs and more stringent goals to eliminate pollution from the lakes. The concept of a Great Lakes Basin Ecosystem was adopted, which recognizes that water quality depends on the interplay of air, land, water and living organisms, including humans, within the system. This action led to more comprehensive assessments of the Great Lakes cleanup effort.

In 1987, at the Commission's Biennial Meeting, the Governments signed a Protocol to the 1978 Agreement, which aims to strengthen the programs, practices and technology prescribed in the 1978 Agreement and to increase accountability for their implementation. Timetables are set for implementation of specific programs. The Governments will meet biennially to discuss progress and report periodically to the IJC. New annexes address atmospheric deposition of toxic pollutants, contaminated sediments, groundwater and nonpoint sources of pollution. Annexes are also added to incorporate the development and implementation of Remedial Action Plans for Areas of Concern and Lakewide Management Plans to control critical pollutants.

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GREAT LAKES SCIENCE ADVISORY BOARD

The Agreement also established the Great Lakes Science Advisory Board, which provides advice on research to the Commission and to the Great Lakes Water Quality Board. It also provides advice on scientific matters referred to it by the Commission, or by the Great Lakes Water Quality Board in consultation with the Commission.

Members of the Great Lakes Science Advisory Board are appointed by the Commission after consultation with the government or governments concerned and are selected on the basis of prominence in their field of study, and participate as individuals regardless of agency, academic or industrial affiliation.

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Proceedings of the Futures Workshop on <u>Great Lakes 2000: Building A Vision</u> held in Niagara-on-the-Lake, Niagara, Ontario, September 20-22, 1989. Sponsored by the Great Lakes Science Advisory Board through their Council of Great Lakes Research Managers. Windsor, Ontario, July 1990, 150 pp.

INTERNATIONAL REFERENCE GROUP ON UPPER LAKES POLLUTION

The Commission in 1972 formed a fourteen-member binational body to conduct a study of water quality in Lake Huron-Georgian Bay and Lake Superior. The International Reference Group on Upper Lakes pollution was asked to respond to four questions the two governments had referred to the Commission:

1. Are lakes Superior and Huron being polluted?

- 2. If so, to what extent, by what causes, and where?
- 3. What measures would be most practicable to restore and protect water quality and what would such measures probably cost?
- 4. If pollution is taking place, what preventive actions should be taken to preclude future pollution and what would be the probable cost?

Four working groups assisted the Reference Group by undertaking studies of: nearshore problems; lakewide trends of physical, chemical, biological, bacteriological and geological characteristics; materials input; and background information on hydrology, climate, geology, population, land use and water use. Toward the close of 1975 the studies were completed and authors began preparing the three-volume report presented to the Commission in mid-1976. Volume I is a summary report, Volume II contains details regarding Lake Huron and Georgian Bay, and Volume III relates to Lake Superior.

Annual Reports

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Special Reports

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INTERNATIONAL REFERENCE GROUP ON GREAT LAKES POLLUTION FROM LAND USE ACTIVITIES (PLUARG)

In 1972, the Commission established the International Reference Group on Pollution from Land Use Activities (PLUARG) to carry out studies required to answer the following questions:

- 1. Are the boundary waters of the Great Lakes system being polluted by land drainage from human-made and natural sources?
- 2. If the answer to (1) is yes, to what extent, by what causes and in what localities is the pollution occurring?
- 3. What remedial measures would be most practicable and what would be their costs?

The eighteen-member Reference Group had an equal number of United States and Canadian members. Four task groups, their technical advisors and expert committees assisted the Group.

The studies were designed to:

- 1. Assess problems, management programs and research on the effects of land use activities on water quality in boundary waters of the Great Lakes.
- 2. Inventory land use and land use practices for trends and projections to 1980 and 2020.
- 3. Study intensively a small number of representative watersheds to enable some extrapolation of data to the entire Great Lakes basin and relate specific land uses and practices to contamination of water quality by Great Lakes streams.
- 4. Diagnose degree of impairment of water quality in the Great Lakes resulting from land use activities.

Since PLUARG's recommendations could provide guidance for land use planning efforts and water usage well into the future, the Group began an extensive public information/participation program in 1976 which was carried out through the rest of its studies and concluded with the Commission's public hearings. PLUARG's final report was presented to the Commission in July 1978.

Annual Reports

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Castrilli, J.F. Control of Water Pollution from Land Use Activities in the Canadian Great Lakes Basin: An Evaluation of Legislative, Regulatory and Administrative Programs. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A (Canadian Section). [Windsor, Ontario], 1977 np, (A separate document (61 pp.) containing only the first chapter of this report is also available). (PLUARG 77-013)

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Copies of the PLUARG bibliography are available from the International Joint Commission, Great Lakes Regional Office, 100 Ouellette Avenue, Eighth floor, Windsor, Ontario N9A 6T3, or P.O. Box 32869, Detroit, Michigan 48232-2869.

GREAT LAKES REGIONAL OFFICE

Under the 1972 Agreement the International Joint Commission was given authority to establish a Regional Office to assist the Commission and the two Boards. The office provides administrative support and technical assistance for the Water Quality Board and the Science Advisory Board and their sub-organizations. A public information service for the programs, including public hearings, is also undertaken by the Commission and its Boards through the Regional Office.

Under the 1978 Agreement, the Regional Office, on behalf of organizations, continues to compile and disseminate data; prepare and distribute reports; provide library services; organize and staff workshops and conferences; perform liaison with media, organizations and citizens; provide information to the public; perform special studies and provide secretariat support.

The office coordinates the Biennial Meeting at which the Agreement bodies formally report to the Commission. This meeting is open to the public. The Commission publication Focus on International Joint Commission Activities, is available three times per year and deals primarily with the ecosystem quality of the Great Lakes.

Special Report

Great Lakes Regional Office. <u>Municipal Phosphorus Loadings to Lake Erie, An Evaluation Study Prepared for the Great Lakes Water Quality Board.</u> Windsor, Ontario, December 1975, 35 pp.

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