

WALLACE F. WELLS
Senior Associate

Education: Certificate in Engineering, Mount Allison University, 1965
B.Sc. Civil Engineering, Queen's University, Kingston, 1968

Memberships: Association of Professional Engineers, Ontario
Government Refuse Collection and Disposal Association
American Public Works Association, Institute of Solid Wastes
Ontario Waste Management Association (Director)

Languages: English

EXPERIENCE

Project Manager and Solid Waste Specialist for:

- Windsor Area Resource Recovery Study; feasibility study for a "front-end" refuse processing plant including analysis of markets for refuse derived fuel.
- Browning-Ferris Inc., Solidification Plant; preparation of an environmental assessment for a 10 to 20 million gal./year solidification facility and landfill at the Ridge Site. The project included many public meetings and agency review.
- Region of Sudbury Resource Recovery Study; feasibility study and cost analysis for a 400 TPD waste processing plant to produce a shredded waste and compost.
- Region of Halton - Resource Recovery Study for a 1,000 TPD 'front-end' plant followed by a siting study under environmental assessment procedures for the plant.
- Region of Halton Landfill; preparation of a multi-discipline set of engineering and planning reports for MOE approval for a new 256 acre Regional landfill site. Participation as an expert before the Ontario Municipal Board.
- Ridge Landfill; preparation of a multi-discipline report for extension of a major landfill with liquid and solid waste co-disposal. Evidence was presented before the Environmental Assessment Board. Follow-up included, detailed site engineering for operations planning, leachate collection and handling, and surface drainage control.

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- Disposal Services Limited; preparation of a design report for a 900 ton per day transfer station, including preparation of contract drawings for station construction. Participation as an expert witness at the Environmental Assessment Board.
- Sault Ste. Marie Waste Management Study; landfill site selection, evaluation of energy from waste and incineration options, sewage sludge management, and development of a waste management program for 20 years.
- Sault Waste Management Project; public participation on waste options, further studies of incineration and landfill site options, preparation of a detailed environmental assessment and design and operations report for approval of new landfill capacity.
- Victoria County, Nova Scotia, Waste Study; evaluation of existing waste practices and provision of plan for waste handling in rural Cape Breton Island, including impact of seasonal changes from Cape Breton Highlands National Park.
- Cornwall Area Waste Management Study; landfill site selection, evaluation of resource recover options, and development of a long-term waste management program including rural transfer stations for the area.
- Ministry of the Environment - Ontario; site selection and conceptual design of storage facilities for PCB and PCB contaminated wastes. Public participation was a major project element.
- District of Muskoka - Waste Management Study for location of future landfills and transfer station. Detailed evaluation of modular incineration with and without energy recovery.
- Landfill engineering for possible site extension, upgrading of facilities, operations or closure for:
 - . Pedersen Disposals, Uxbridge
 - . Whitby and Darlington landfill, Region of Durham
 - . CFB Gagetown, New Brunswick
 - . Fort Simpson, Northwest Territories
 - . Quinte Sanitation, Belleville/Trenton
 - . Drumbo, Lakeside and Tillsonburg landfills, Oxford County

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- . Toronto International Airport
- . Thunder Bay Airport
- . City of Brockville
- Leachate handling and disposal systems and options for landfills for:
 - . Quinte Sanitation
 - . Oakville, Burlington and Georgetown landfills, Halton
 - . Leamington and Maidstone landfills, Essex
 - . Cherokee landfill, Sault Ste. Marie
 - . Pinelands landfill, Muskoka Lakes
- Markets and Technologies assessment study for Resource Recovery, Regional of Halton
- Source Separation study, Oakville Association of Mentally Retarded.

EMPLOYMENT HISTORY

M.M. Dillon Limited 1977 - Date	Toronto. Manager, Waste Management Engineering responsible for Dillon project team for waste management and hazardous materials projects.
1973 - 1977	London. Project Manager for waste management and resource recovery studies and landfill projects.
Ministry of the Environment 1970 - 1973	North Bay, Waste Management Branch. Regional Engineer for Northeastern and Northwestern Ontario with responsibility for technical recommendation and inspection of all public and private waste facilities under the Environmental Protection Act.
County of York 1968 - 1970	Newmarket. Research Planner for official plans, zoning by-laws and special studies including waste management.

TECHNICAL PAPERS

Computer-Assisted Management of Landfill Operations, First National Conference on Canadian Waste Management, Winnipeg, 1979

Landfill Design and Management Techniques, Engineering Institute of Canada, Fredricton, New Brunswick, 1980

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Leachate Control and Management Techniques, Seminar on Leachate Management, Environment Canada, Toronto, 1981

Leachate Management and Landfill Operations, Government Refuse Collection and Disposal Association, Toronto, 1981

Transfer Station Design and Operation, Fourth National Conference on Canadian Waste Management, Lake Louise, 1982

Landfill Design and Public Considerations, Nimby Conference, York University, 1983.

Landfill Design and Leachate Handling State-of-the-Art, Fifth National Conference on Canadian Waste Management, Quebec City, 1983.

DECEMBER 1983

LANDFILL ENGINEERING AND OPERATIONS EXPERIENCE

	Landfill Sites																		
	BROCKVILLE	OAKVILLE	GEORGETOWN	RIDGE (B.F.I. INC.)	QUINTE SAN.	HALTON REGION	DARLINGTON	SAULT STE. MARIE	MUSKOKA (PINELANDS)	HUNTSVILLE	WHITBY	WHITBY INDUSTRIAL	RIVER ROAD (LONDON)	OSHAWA	MAIDSTONE	LEAMINGTON	OXFORD COUNTY	TILLSONBURG	CORNWALL
SITE SELECTION						●		●		●						●		●	
SITE EXPANSION	●	●		●			●			●							●		
DESIGN & OPERATIONS	●	●		●	●	●	●	●		●	●			●	●	●	●	●	●
FINAL DESIGN/CONSTRUCTION		●		●									●						
LEACHATE CONTROL	●	●	●	●	●			●	●		●		●	●	●	●		●	
GAS CONTROL										●		●				●			
OPERATIONS ASSISTANCE	●	●		●	●		●	●		●	●			●	●		●		
MONITORING		●		●	●		●	●		●	●			●	●	●	●	●	
PUBLIC MEETINGS		●		●		●		●											
HEARINGS				●		●	●		●							●		●	
SITE CLOSURE			●					●		●		●							
M.O.E. CERTIFICATION ASSISTANCE		●	●	●	●			●		●		●		●		●		●	

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WASTE MANAGEMENT STUDY/ MASTER PLAN EXPERIENCE

	KENT/CHATHAM.ONT.	SUDBURY.ONT.	HALTON REGION.ONT.	WINDSOR.ONT.	REGINA.SASK.	METRO TORONTO.ONT.	CORNWALL AREA.ONT.	SAULT STE. MARIE.ONT.	TWP. OF NORTH SHORE.ONT.	PROVOST.ONT.	JASPER/EDSON.ALTA.	VICTORIA.CTY. N.B.	MUSKOKA.ONT.	SIMCOE COUNTY.ONT.
DATA BASE	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TERRAIN ASSESSMENT	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ENVIRONMENTAL ANALYSIS	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SITE SELECTION	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MARKETS FOR RESOURCE RECOVERY	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ENERGY RECOVERY	●	●	●	●	●	●	●	●	●	●	●	●	●	●
INCINERATION	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TRANSFER STATIONS	●	●	●	●	●	●	●	●	●	●	●	●	●	●
WASTE SYSTEMS	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FINANCE & ADMINISTRATION	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PUBLIC MEETING	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MASTER PLAN	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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