

David Roy Spink, P.Eng.

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EDUCATION

UNIVERSITY OF ALBERTA
B.Sc. (with distinction) Civil Engineering, 1972

UNIVERSITY OF ALBERTA
M.Sc. Civil/Environmental Engineering, 1975

UNIVERSITY OF ALBERTA
Course Work towards a Ph. D 1980/81

EMPLOYMENT HISTORY

PRAVID ENVIRONMENTAL INC., EDMONTON, ALBERTA

Principal and Consultant, Environmental Sciences and Policy - June 2004 to present

Significant assignments include:

- representing the Fort McKay Sustainable Development Department (formerly the Industrial Relations Corporation (IRC) on a number of regional multi-stakeholder committee involved in developing policies and programs related to the management and monitoring of impacts associated with oil sands developments in the Regional Municipality of Wood Buffalo (currently actively involved in the CEMA Air working Group and am a corresponding member on a number of WBEA groups);
- conducting regulatory-related reviews, on behalf of Alberta Environment, of the EIAs and Environmental Protection and Enhancement Act applications for the Petro-Canada, Shell and TOTAL upgrader projects in the Industrial Heartland;
- conducting detailed reviews of oil sands projects EIAs, regulatory applications and draft EPEA approvals for a number of First Nation Communities (i.e. Fort McKay, Chipewyan Prairie Dene, Cold Lake and Woodland Cree) (approximately 25 major projects have been reviewed);
- providing water and wastewater servicing and design advice for work camp and country residential systems to engineering consulting firm Klohn Crippen Berger (formerly ECOMARK Ltd.) and preparing applications for operating approvals for

these types of systems;

- developing a comprehensive air quality management strategy for the community of Fort McKay;
- representing the Prairie Acid Rain Coalition on a number of provincial and national initiatives related to air quality management (am currently a Clean Air Strategic Alliance Board member and have been a member of the Canadian Council of Ministers of the Environment (CCME) Acid Rain Task Group and was part of the recent CCME initiative on development of an Air Quality Management System for Canada; and
- represented Fort McKay on 2 Alberta Environment policy development groups that prepared NOx emission control requirements for oil sands boilers, heaters and gas turbines using gaseous fuels and NOx, SO2 and PM controls for boilers using non-gaseous fuels in insitu bitumen operations

ALBERTA ENVIRONMENT, EDMONTON, ALBERTA

Director, Special Projects- Strategic Directions, 2002-2004

- > Responsible for identifying strategic priorities for Alberta Environment and leading or participating in initiatives to address these priorities

Significant assignments included:

- government co-chair of a large multi-stakeholder team under the Clean Air Strategic Alliance (CASA) developing recommendation for a new air emissions management approach for the province's electricity sector;
- participated in a national delegation to China to discuss management of mercury emissions from coal-fired power plants;
- lead a review of Alberta Environment's current approaches to risk management and the possible application of an enterprise-wide risk management framework;
- member of a project team examining the feasibility of establishing an emissions trading system for the province; and
- prepared a "futures" document for the department examining critical corporate issues and priorities.

ALBERTA ENVIRONMENT, EDMONTON, ALBERTA

Director, Environmental Sciences Division, 1999-2001

David Roy Spink, P.Eng.

- > Responsible for policy, programs and standards and guidelines development in the areas of , air and water quality management and pollution control, land management, geo-environmental protection, hazardous waste management, pesticides management, municipal water, wastewater and waste management and pollution prevention and also responsible for certain corporate information services, e.g. library. Managed approximately 80 staff and a \$10M budget.

ALBERTA ENVIRONMENTAL PROTECTION, EDMONTON, ALBERTA

Director, Air and Water Approvals Division, 1993-1999

- > Responsible for administering the approval provisions of the Alberta Environmental Protection and Enhancement Act legislation including signing all environmental approvals and registrations for municipalities (until 1996) and for all industrial and hazardous waste operations in Alberta (approximately 1,000 facilities in total). Managed approximately 50 approvals staff.

ALBERTA ENVIRONMENTAL PROTECTION, EDMONTON, ALBERTA

Regional Engineer(1978-1980), Head Special Projects(1980-1982), Branch Head, Municipal Engineering Branch(1982-1988) and Branch Head, Municipal Branch(1988-1993)

- > Involved in and ultimately responsible for managing all the Department's municipal water and wastewater programs (25 staff and a \$2 million budget) which included:
 - standards and guidelines development;
 - drafting Clean Water Act approvals;
 - training and certification of operators;
 - facility inspection and monitoring; and
 - development of the Province's new Environmental Protection and Enhancement Act as it pertained to municipal activities.

ENVIRONMENT CANADA, EDMONTON, ALBERTA

Project Engineer then Senior Project Engineer, Water Quality Section, 1975-1978

- > Duties included characterization of waste discharges from various municipal and industrial sources, assisting in assessing the water quality impacts of these discharges and participating in the developing of *Federal Fisheries Act Liquid Effluent Regulations/Guidelines*.

CITY OF EDMONTON

Special Projects Engineer(1973) and Plant Operations Engineer, 1974

- > Duties included evaluating the operation and performance of the City of Edmonton's 320,000 m³/d activated sludge sewage treatment plant and developing optimization plans/procedures.

David Roy Spink, P.Eng.

PROFESSIONAL MEMBERSHIPS AND OTHERS

- Registered Professional Engineer in Alberta (APEGGA)
- Member, Air and Waste Management Association (A&WMA)

CONTRIBUTIONS TO THE PROFESSION AND/OR COMMUNITY

DATE: From – To	NAME OF ORGANIZATION, PROJECT, ETC.	OFFICE(S) HELD/POSITION	RESPONSIBILITIES/ACTIVITIES	HONORS/ AWARDS
1979	Western Canada Water and Wastewater Conference	Technical Program Chairman	Developed technical program for annual conference and arranged for speakers.	
1980-1981	Canadian Society of Civil Engineering	Technical Program Chairman	Prepared technical program for monthly dinner meetings and arrange for speakers.	
1982	National Canadian Society of Civil Engineering	Member Technical Program Committee	Prepared municipal/technical program for environmental engineering sessions.	
1983	National Conference on Drinking Water	Conference Chairman	Responsible for overall organization of the 2 nd National Conference on Drinking Water.	
1986-1989	Western Canada Water and Wastewater Association	Alberta Director	Part of Association Executive.	Service Award
1989-1992	American Water Works Association	Western Canada Director	Part of Association Executive.	Fuller Award
1993/1995	University of Alberta	Member of Program Advisory Committee for Loss Management and Prevention Program	Provided advice on curriculum for this engineering program.	
1984-1992	K of C Basketball	Coach	Coached youth basketball.	
1994-2000	Edmonton Science Fair	Judge/Judge Leader	Judged High School Science and/or Engineering projects.	
1993-1995	University of Alberta	Member of M.Sc. thesis supervisory committee	Suggested specific research areas and reviewed research methodology and results.	
1996-1999	American Water Works Association	Director, Western Canada Section	Represented Western Canada and approximately 530 members on Association's Board of Directors.	
1996-2004	Water for People Canada	On Board of Directors and local committee	Prepared budgets, allocated funds to projects and promote organization.	

David Roy Spink, P.Eng.

1999-2001	Association of Professional Engineers, Geologists and Geophysicists of Alberta	On Association's Environment Committee	Promoted environmental awareness amongst professional engineers.	
2004	NAIT	Judge at Environmental Seminar	Evaluated and judged written papers and oral presentations of students on environmental topics	
2004-Present	Clean Air Strategic Alliance	Public member	<ul style="list-style-type: none"> ▪ Board Member (2010 to present) ▪ Assist in implementation on the CASA EPT report ▪ Member of CASA EPT 5 Year Review Project Team ▪ Member of CASA Ambient Monitoring Strategic Plan Project Team ▪ Co- chair of Organizing Committee for 2006 CASA Science Symposium on Nitrogen 	
2005-2006	Alberta Environment	Public member	Assisted in developing and implementing the Department's EnviroVista program to recognize leaders in environmental performance	
2005	University of Alberta	Executive in residences in MBA program	Gave lectures on public policy related to environment and energy and provided advice to students	
1975 to present	Lectures, presentations, and paper		Have given numerous presentations, lectures and papers on a range of environmental topics (water and wastewater treatment, public health issues related to the environment, oilsands, air pollution control and management, odours etc.)	