



## Winnipeg Office



WSP is a leading Canadian engineering, architectural, environmental and project management company. Mergers that combine the strengths of WSP, MMM Group, Parsons Brinckerhoff and Architecture49 have created a global entity with over 34,000 employees and offices in 500 communities across Canada and internationally. WSP's Manitoba division provides the benefit of over 60 years of engineering and architectural experience in the province.

WSP provides comprehensive services in planning, land development, transportation, municipal infrastructure, environment, industrial, buildings and landscape architecture. WSP undertakes studies and projects for many public and private sector clients including governments, municipalities, environmental organizations, commercial businesses, industry, manufacturers, land developers, utilities, contractors and other design consultants. We deliver projects through design-bid-build, design-build, PPP and Project Management approaches.

In Canada, WSP employs approximately 8,300 specialists, mainly engineers, technicians, scientists, architects, planners, surveyors, program and construction management professionals as well as various environmental experts and design professionals, across all provinces. Headquartered in Montreal, WSP's Canadian operations provide services to transform the built environment and restore the natural environment. Our expertise ranges from engineering iconic buildings to designing sustainable transport and telecommunications networks, from environmental remediation to urban planning, and from developing the energy sources of the future to enabling new ways of extracting essential resources. Worldwide, WSP is ranked amongst the top 10 professional service firms.

Our services include:

- Systems Planning and Analysis
- Surveying
- Site Investigations
- Laboratory Analysis and Treatment Process Pilot Studies
- Economic, Planning and Technical Feasibility Studies
- Opinions of Probable Cost
- Preliminary Conceptual & Functional Design
- Environmental Impact and Site Assessments
- Design Drawings
- Specifications
- Tender Documents
- Equipment Procurement
- Construction Site Review
- Contract Administration
- Project Management
- Operator Training; O and M Manuals
- Systems Commissioning
- Start-up, Operation and Optimization
- Utility Rate Studies
- Permit and License Applications and Submissions
- Regulatory Compliance Audits
- Expert Testimony
- Condominium Reserve Fund Studies



## PRINCIPAL FIELDS OF SPECIALIZATION

**PLANNING** – Public Consultation Programming; Community Engagement and Visioning; Workshops and Surveys; Background Studies; Sustainable Community and Regional Development Plans; Water, Sewer and Drainage Utility Master Plans; Strategic Planning; Zoning Bylaws; Development Approvals; Subdivision and Site Design; Project Feasibility Studies; Water and Wastewater Management Plans.

**LAND DEVELOPMENT** – Residential, Commercial, Industrial, Agricultural and Recreational Developments; Servicing Standards.

**TRANSPORTATION** – Gravel, Asphalt and Concrete Paved Roads; Streets and Highways; Airports; Overlays and Rehabilitation; Bridges; Sidewalks; Marinas; Traffic Studies.

**LAND DRAINAGE** – Storm Sewers; Ditches; Subsurface Drainage; Detention and Retention Ponds; Engineered Wetlands; Pumping Stations; Erosion Control.

**WATER RESOURCES** – Agricultural Drainage; Rural and Urban Drainage Analysis; Flood Control; Dams; Storage Impoundments; Agricultural Irrigation; Hydrological, Hydrogeological and Water Quality Studies; Hydraulic Analysis.

**WATER SUPPLY** – Groundwater and Surface Source Development; Treatment Plant Process Evaluation, Selection and Optimization; Pumping; Storage; Distribution; Fire Protection; Community and Regional Systems; Upgrading and Expansion.

**WASTEWATER** – Gravity and Low Pressure Sewers; Lift Stations; Forcemains; Treatment Plants; Lagoons; Septage Handling Facilities; Effluent and Biosolids Disposal; Zero Discharge Systems; Systems Upgrading and Expansion; Community and Regional Systems; Agricultural and Industrial Wastewater Treatment and Disposal.

**WASTE MANAGEMENT** – Municipal, Agricultural and Industrial; Solid Waste Collection; Site Selection; Transportation and Disposal; Local and Regional Systems; Hazardous Waste; Disposal Site Decommissioning; Waste Conversion; Composting; Recycling Facilities.

**ENVIRONMENTAL** – Environmental Audits; Contaminated Site Cleanup; Impact Assessments; Mitigation Strategy; Public Consultation Programs.

**GEOTECHNICAL** – Soil Drilling; Subsurface Investigations; Foundation Design; Slope Stability; Soil Analysis; Concrete Mix Design and Testing; Aggregate Analysis and Resource Development; Subsurface Drainage Systems; Leachate and Seepage Containment.

**INDUSTRIAL** – Agri-processing; Metals; Forestry Products; Chemicals; Manufacturing; Construction Materials; Mining; Biotechnology; Food and Beverage; Warehousing.

**COMMERCIAL BUILDINGS** – Office and Retail Buildings; Shopping Centres; Warehousing; Parkades; Low-rise and Multi-Storey; Auto Dealerships; Hotels and Restaurants; Condominiums and Apartment Blocks; Renovations and Upgrading.

**INSTITUTIONAL BUILDINGS** – Hospitals; Schools and Colleges; Multiple Unit Residential and Seniors Housing; Airport Facilities; Sports and Recreational Facilities; Community Centres; Renovations and Upgrading.

**STRUCTURAL** – Buildings; Bridges; Existing Building Assessment, Upgrading, Analysis and Renovations.

**MECHANICAL** – HVAC; Fire Protection; Plumbing; Energy Audits; Building Energy Use Simulations; Process Equipment and Systems; Conveying Systems.

**ELECTRICAL** – Site Servicing; Distribution; Lighting; Controls; Instrumentation; Telemetry; Fire Alarm; Access Control; Emergency Generator Systems; Airport Facilities; Communications Systems; Uninterruptable Power Systems; PLC and SCADA Systems; Lighting and Life Safety Upgrades, Power Factor Correction, Short Circuit Studies.

**SPORTS and RECREATION** – Arenas; Running Tracks; Stadiums; Rinks; Aquatic Centres; Campgrounds; Resorts; Golf Courses; Water Theme Parks.

## PRINCIPAL STAFF - MANITOBA

**Bill Brant, P. Eng. FEC**, Vice President, Water Specialist

**Doug Clark, LEED AP BD+C**, Commercial/Institutional

**Bruce Emberley, C.E.T.**, Buildings & Recreation

**Alana Gauthier, P. Eng.**, Industrial

**Bob Hinkelman, C.E.T.**, Urban Land Development

**Rick Brannan, P.Eng.**, Structural

**Mike Matview, C.E.T.**, Rural Infrastructure

**Bob McConomy, P.Eng., LEED AP**, Mechanical

**Ian McKinnon, P. Eng.**, Infrastructure & Transportation

**Scott Minty, M.Sc., P. Eng.**, Transportation

**Tim Nykoluk, P. Eng.**, Northern Infrastructure

**Alf Poetker, P. Eng.**, Senior Consultant

**Howard Procyshyn, P.Eng.**, Electrical

**Silvestre Urbano, P.Eng.**, Geotechnical

**Ross Webster, M.Sc., MBA, P.Eng.**, Environmental