

# Trusted advisors delivering responsible solutions

Environment







**Multidisciplinary  
environmental  
expertise**  
*for projects  
of every size  
and scope*

**4,000+**

**Environment  
employees  
worldwide**

**50+**

**Years of  
experience  
in Canada**

**1,100+**

**Environment  
employees  
in Canada**

**+50**

**Environment  
offices in Canada**





At WSP, we're passionate environmental stewards who understand your soil, water and air challenges, as well as the complex interrelationships inside every ecosystem. Our multidisciplinary environmental experts are equally passionate about delivering practical strategies to study, protect, enhance and restore the natural environment, while advancing responsible development and facilitating project approvals.

While every human activity and development exerts an impact on the natural world, we learn more every day about how to minimize project footprints and apply better practices and more balanced approaches to your projects.

We're keen observers, thoughtful listeners and committed collaborators, and this makes a real difference in the quality of the relationships we cultivate with all project stakeholders and in the positive environmental outcomes we deliver.

Our national team of more than 1,100 environmental professionals and technicians offer significant experience in geotechnical investigations, environmental site assessments, impact studies, archeological studies, environmental audits, environmental systems implementation and maintenance, materials inspection and testing, water air and soil characterizations, land remediation and environmental monitoring.

WSP's ability to share resources and expertise globally means we put the right people together in customized teams to address specific project needs, at every stage of a project's lifecycle, from initial environmental impact assessment and socio-economic studies through feasibility, construction, operation, project decommissioning and final reclamation. Our experts seamlessly extend the capacity and capabilities of your organization's resources, while becoming valuable and trusted advisors and partners.

## Our Core Services

Geotechnical

Environmental Due Diligence

Environmental Planning, Permitting and Impact Assessments

Environmental Site Assessments

Air Quality

Aquatic and Terrestrial Ecology

Aggregate Resources

Remediation and Site Closure

Climate Change

Construction Materials Testing, Laboratories and Inspection

Quality Management

Designated Substances and Hazardous Materials Management

Geomatics, Visual Simulations & Mapping

Hydrogeology

Landfill Engineering and Waste Management

Materials Engineering

Mine Closure

Noise, Acoustics and Vibration

Pavements and Concrete Technology

Archaeology, Heritage and Indigenous Relations

Economic and Strategic Studies

## Industries

**Infrastructure**

**Transportation**

**Buildings**

**Mining**

**Industrial**

**Energy**

**Oil and Gas**





# Our project experience

## NATURAL GAS STORAGE FACILITY

01

### Nova Scotia

Alton Gas retained a multi-disciplinary team from WSP to support the design, construction and permitting for a natural gas storage facility and associated pipelines, near Enfield, Nova Scotia. The storage facility will be created in an underground salt formation (solution mined) using brackish tidal water from the Shubenacadie River. WSP's environmental team completed environmental impact assessments to supplement pre-existing Environmental Assessment Approvals, undertook compliance monitoring and construction monitoring, developed Environmental Protection Plans (EPP), Environmental Management Plans (EMP), and Contingency and Mitigation Plans (C&MP). WSP coordinated archaeological studies, completed habitat surveys, air emissions modeling, secured Industrial Approvals, and served as an advisor to Alton during frequent multi-stakeholder consultations that included Indigenous representatives and multiple governmental departments.



## MANAGING COMPLEX SOIL STRUCTURES

Bolton Bypass, ON

WSP's geotechnical services played an instrumental role in the Region of Peel's Bolton Bypass project, which opened in 2015. The new roadway system features a long span bridge across the Humber River and two large traffic circles. WSP supplied environmental monitoring, inspection services and quality control testing throughout the project. Due to the site's complex and variable soil structures, WSP's ability to accurately assess the ground was vital and involved Pile Driving Analyzer (PDA) tests to confirm load capacity of piles and required depths.

## 02 FISH HABITAT MONITORING

Romaine River Hydropower Project, QC

Accurately assessing the impact of proposed development and supporting the environmental impact assessment process is a key part of WSP's environmental service portfolio. Hydro-Québec selected WSP to conduct comprehensive testing of the Romaine River, on the north shore of the St. Lawrence, as part of the approval process for a 1,550 MW hydroelectric complex of four plants (one plant is operating and two are in development.) WSP surveyed the local fish habitat and population, conducted hydrodynamics modeling, determined conservation flows and evaluated the river's salmon spawning run by applying state-of-the-art hydro acoustic methods and monitoring.

## 03 HEAVY OIL FACILITY TO HAY PASTURE

Alberta

WSP took on the challenging process of providing all environmental services required to fully and safely decommission the 11.5 acre Heavy Oil Cleaning plant site, including remediation of impacted soil and removal of subsurface infrastructure, on-site sampling testing, preparing both a remedial action plan and completion report. WSP's approach maximized residual value by recycling concrete, metal and conduit, and re-using 8,000 tons of gravel and pit run and, since 2010, the site has been transformed into agricultural land which produces a mixed hay crop.









***Our passion:***  
*to be your partner*  
*securing permits;*  
*to help you manage*  
**your compliance**  
**and liabilities.**



WSP™ is one of the world's leading professional services consulting firms. We are dedicated to our local communities and propelled by international brainpower. We are technical experts and strategic advisors including engineers, technicians, scientists, project managers, planners, surveyors and environmental specialists, as well as other design and program management professionals. We design and deliver lasting solutions in the Buildings, Transportation, Infrastructure, Oil & Gas, Environment, Geomatics, Mining, Power and Industrial sectors as well as project delivery and strategic consulting services. With over 7,500 talented people across Canada and 36,000 globally, we engineer projects that will help societies grow for generations to come.

