



**WSA ENGINEERING (2012) LTD.**

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*Civil • Structural*

## **COMPANY PROFILE**

**CIVIL ENGINEERING, SURVEY AND DESIGN**

**STRUCTURAL ENGINEERING**

**WSA ENGINEERING (2012) LTD.**

2248 Columbia Avenue  
Castlegar, B.C. V1N 2X1  
Phone: 1 888 617 6927

## **WSA ENGINEERING (2012) LTD.**

WSA Engineering (2012) Ltd. is a progressive, civil, structural, engineering firm located in Castlegar, British Columbia. The company principal, Mr. Dan Sahlstrom, P. Eng., is a long-time resident of the Kootenays, and has been providing consulting services throughout British Columbia since 1989. The firm provides a wide range of engineering, and technical expertise in the municipal resource and construction sectors.

The company maintains a core of professionals and technicians with a variety of experiences. Our professionals have a strong engineering background, particularly in the fields of municipal, civil and structural engineering. The firm has a comprehensive understanding of current technologies with academic and practical backgrounds, which enable us to provide innovative, practical and cost effective solutions to our clients.

Our civil engineering group provides expertise in municipal water and sewer systems, stormwater management, subdivision design, pumps and process equipment, project management, and coordinating of other professional disciplines. Our structural engineers serve the residential, commercial, and industrial markets. In addition, the company maintains active memberships in technical and professional associations, keeping abreast of technical advances through continuing education.

Our diversified multi-disciplinary approach to problem solving enables us to adapt to the rapidly changing regulatory realities facing industries in British Columbia today. We have a thorough understanding of the regulatory requirements and have successfully dealt with all levels of government. We will assist clients in anticipating and effectively addressing the key issues during the process of obtaining permits.

All projects receive our close and careful attention regardless of size or nature, and we hold paramount our clients' needs and interests. Some of our corporate clients prefer to work closely with us in an informal partnership approach, allowing us to become familiar with their operations. Using our analytical and management skills we are able to provide objective recommendations for operational improvements, as well as anticipate and avoid potential problems.

## **CORPORATE PRINCIPLES**

- *The key to our success is to accommodate client preferences, needs, and expectations and to ensure that our clients are completely satisfied with the service and value we provide.*
- *WSA provides stable, equitable employment within a safe, healthy, and enjoyable work environment, and encourages advancement and growth of the employees as individuals and as a group.*
- *WSA conducts business in a manner that does not pose a risk to the public or environment, participates in and assists with public causes, and encourages community involvement of the corporation, management and staff.*
- *WSA has a duty to provide a reasonable financial return to it's shareholders, through efficient use of existing resources and sustainable growth.*

# **PROFESSIONAL SERVICES**

## **CIVIL ENGINEERING**

### **Utilities**

- Ground and surface water supplies
- Water distribution and waste water collection
- Water and waste water treatment
- Storm water systems
- Infrastructure assessments
- Municipal road design
- Subdivision development
- Road surveying & layout
- Pumps and process equipment

### **Transportation**

- Ministry of Transportation (MOT) and Transportation Association of Canada (TAC) Geometric Design

### **Hydrology**

- Storm water management and design
- River engineering
- Aquifer protection studies

### **Survey & Design**

- Topographic survey
- Residential, commercial, and industrial site development plans
- Subdivision layout
- Residential building design and floor plans

### **Septic**

- Residential and commercial sewage system design
- Percolation testing and soil analysis
- Subdivision septic approvals
- Type I, II, and III sewage treatment system design and certification

### **Project Management and Planning**

- Coordination of other engineering disciplines
- Cost estimating and project planning
- Approval applications for all levels of Government

- Funding applications
- Construction contract and tendering services
- Contract administration and construction inspection

## **STRUCTURAL ENGINEERING**

### **Industrial & Commercial**

- Foundations
- Wood and steel stud frame
- Pre-engineered structural steel buildings
- Suspended reinforced concrete slabs
- Shoring
- Formwork
- Scaffolding
- Struts and supports

### **Residential**

- Foundations
- Point loads and beams
- Timber Frame and Post & Beam design

## **MAJOR PROJECTS**

### **CIVIL ENGINEERING**

- Lister Creek New Water, Design, Tendering and Contract Administration, Creston BC
- Riondel Water Treatment Plant, Design, Tendering and Contract Administration, Riondel BC
- Fauquier Water Treatment Upgrade, Design, Tendering and Contract Administration, Fauquier BC
- 5 Mile Water Main Replacement, Nelson BC
- Morgan St. Sidewalk Upgrades, Nelson BC
- Redstone Resort Golf Course Subdivision Planning, Design, and Tendering
- Red Mountain Properties Development at Red Mountain, Rossland, BC
- Rock Cut Pub Subdivision Planning, Design, and Tendering
- City of Castlegar Columbia Avenue Reconstruction
- Village of Silverton Water Main Replacement
- Village of New Denver Storm Water Study and Aquifer Protection Plan
- Village of Nakusp Alternate Water Source Study
- Village of Nakusp Hot Springs Facility Upgrade Study
- Layout and Design of 32 Panelized Homes, Harmony Wood Products, Castlegar, BC
- Layout and Design of 4 Residential Plans, Superior Interiors Ltd., Castlegar, BC
- Subdivision Design, Country View Properties, Fort St. John, BC
- Subdivision Design, Ambleside Land Ltd., Dawson Creek, BC
- IHA – Creston Valley, Queen Victoria, and Boundary Hospital Residential Site Servicing
- JL Crowe - Trail, BC MQN Architects

## **STRUCTURAL ENGINEERING**

- Warfield Sand Storage Building, Warfield BC
- FortisBC Warfield Warehouse Addition, Warfield BC
- Brilliant Expansion Project Formwork Inspections and Miscellaneous Support Designs, Castlegar, BC
- Brilliant Expansion Project Formwork Design, Castlegar, BC
- Red Mountain Properties Grey Wolf Cabins, Silvertip 15 Unit Condo, Red Robs 10 Unit Condo, Rossland, BC
- Center Star Ridge Multi Family Development, Rossland, BC
- Super 8 Swimming Pool Addition, Castlegar, BC
- Selkirk College Flight Training Facility, Castlegar, BC

## **REFERENCES**

*WSA Engineering (2012) Ltd.  
Company Profile*

RDCK	Uli Wolfe	250-352-6665
BC Hydro	Christine Bohringer	250-203-2466
City of Castlegar	Phil Markin, City Planner	250-365-7227
City of Nelson	Rob Nystrom	250-352-5511
City of Rossland	Darrin Albo	250-304-3650
Country View Properties	Steve Moore	250-263-1146
Fairbank Architects	Christopher Fairbank, MAIBC	250-352-5371
MQN Architects	Bob McDonell	250-542-1199
FortisBC	Darren McElhinney	250-368-0620
Kootenay Columbia Seniors' Housing Cooperative	Elmer Verigin	250-304-2801
Rossland Property Investments	Robert Felsch, Owner	250-362-2214
Village of Silverton	Lenard Cale	250-358-2472
Village of New Denver	Carol Gordon Deputy Corporate Administrator	250-358-2316
Village of Warfield	Vince Morelli, CAO	250-368-8202
Village of Nakusp	Mike Peterson	250-265-3689