



## **VECTOR CONSTRUCTION GROUP CORPORATE PROFILE**

The **Vector Construction Group** is a group of companies that specialize primarily in two areas, Concrete Repair and Protection, and Corrosion Technologies for reinforced concrete and masonry structures.

Our proactive dedication to these two areas is best represented by our Corporate Mission Statement:

**Vector : A force dedicated to:**

**Solving tomorrow's unique challenges and  
Today's concrete and corrosion problems.**

### **History**

Vector Construction Group started its corporate life in 1965 in the earthworks business, building roads, under the name G.M.W. Ltd. After several years of highway grading, dam building, site development, and other heavy construction projects, the opportunity came to take on a significant concrete repair project on a hydro-electric facility for Manitoba Hydro. This start in concrete rehabilitation soon led to new opportunities to provide the latest concrete restoration and protection technologies to a broad range of clients. These services are now delivered through the Winnipeg Head Office and ten branch offices, six in Canada and four in the United States. Vector Construction Group expanded into the related area of investigating and mitigating corrosion of reinforcing steel in reinforced concrete structures. This expansion began with the installation of Cathodic Protection systems and then shortly followed with the introduction of the Norcure<sup>®</sup> System for removing the chlorides from concrete using electrochemical technology. We have since extended our offering to include corrosion testing on reinforced concrete structures, design and installation of cathodic protection systems, and sales and distribution of galvanic and impressed current anodes for reinforcing steel protection. Vector Construction Group is a

recognized leader in the areas of concrete restoration and protection, and corrosion technologies for reinforced concrete and masonry structures.

## **Technical Capabilities**

### **Concrete Repair and Protection**

The concrete repair and protection work is carried out through offices located in Winnipeg, Manitoba; Stoney Creek, Ontario; Sarnia, Ontario; Thunder Bay, Ontario; Saskatoon, Saskatchewan; Spruce Grove, Alberta; Fargo, North Dakota; South Sioux City, Nebraska; Cedar Rapids, Iowa; and Tampa, Florida. Vector offers the following concrete repair and protection services:

- Structural Concrete Repairs
- Epoxy Injection Grouting
- Chemical Grouting
- Cementitious Pressure Grouting
- Protective Coating and Linings
- Waterproofing Systems
- Industrial Flooring
- Rock Anchoring
- Concrete and Polymer Overlays
- Sulfurcrete<sup>®</sup> - Acid Resistant Concrete
- Structural Strengthening using Advanced Composite Materials
- Post-tensioning Repairs
- Wet System Shotcrete
- Electrochemical Chloride Extraction and Re-alkalization

The branches are supported by a Technical Services Division, which provides technical support, consistency of knowledge and performance, and new technologies throughout the group.

### **Corrosion Technologies**

The Corrosion Technologies Division provides services and products for the investigation and mitigation of corrosion in reinforced concrete structures throughout North America and Central America. Through our branch network and installer network, the Corrosion Technology Division offers:

- Corrosion Investigation and Testing
- Cathodic Protection Services
- Electrochemical Chloride Extraction, Realkalization, and ASR Mitigation
- Galvanic Anodes for concrete repair
- Galvanic Anodes for corrosion control of contaminated concrete
- Discrete Anodes for Impressed Current Cathodic Protection
- Galvanic Jacket Cathodic Protection system for marine structures

## **Manufacturing Capabilities**

The Corrosion Technologies Division expanded into the manufacturing of corrosion mitigation products in January 2002. Vector is the manufacturer and provider of innovative materials for concrete repair across the Americas. With the manufacturing operation located at our Head Office in Winnipeg we are able to supply our products in a timely and economical manner to a wide range of clients.

## **Research, Development and Testing**

The Corrosion Technologies Division continues to investigate new and innovative areas regarding electrochemical protection of reinforced concrete. Research to date has resulted in four patents being issued to Vector. New products being developed and tested by our R & D section will be available to our clients in the near future. Vector also continues to provide quality testing and investigation of corrosion and concrete related problems to protect our nations' infrastructure.

## **Corporate Capabilities**

The Vector Construction Group performs projects with values up to \$10,000,000 and has bonding capabilities, with Western Surety and Hanover Insurance, through AON Reed Stenhouse Inc., to cover these size projects and beyond.

The Vector Construction Group provides this service with a highly capable and qualified staff. Included on the team are Professional Engineers, Business Management Graduates, Engineering Technologists, many Managers with Canadian Construction Association Gold Seal Certification for Concrete Restoration, and trained Technicians and Technologists. The Vector Construction Group has also performed work throughout the world. In addition to North America, Vector has had a variety of projects in Romania, Argentina, Bermuda, and China.

## **Safety**

Safety is a paramount concern for the Vector Construction Group as is demonstrated by our Corporate Safety Policy. Vector has Industry Certification of its Safety Programs where available and the same standard in all areas.

## **Technical Involvement**

The Vector Construction Group is heavily involved in the advancement of technology within our industry through active representation on industry organizations as follows:

### American Concrete Institute

- Committee 222 Corrosion of Reinforced Concrete Structures
- Committee 364 Rehabilitation of Concrete Structures
- Committee 440 Fiber Reinforced Polymers for Concrete Structures
- Committee 503 Adhesives for Concrete
- Committee 515 Protective Systems for Concrete
- Committee 546 Repair of Concrete Structures
- Committee 548 Polymers Concrete
- Committee Contractor Liaison Committee

### International Concrete Repair Institute

- Committee Technical Activities Committee
- Committee Corrosion Committee
- Committee Strengthening and Stabilization

### NACE

- Committee T-11 Group Corrosion and Deterioration of Infrastructure
- Committee T-11 4b Rapid Electrochemical Treatments for Concrete

### Industry Awards

- Heavy Construction News - Award of Excellence
- NOVA Award for Innovation in Construction

### Other Industry Associations

- ISIS Canada The Canadian Network of Centres of Excellence on Intelligent Sensing for Innovative Structures

The Vector Construction Group is truly prepared to solve today's concrete and corrosion problems and address tomorrow's unique challenges.