



TECHNOLOGY, EXPERTISE & SOLUTIONS



Maverick Inspection Ltd. has been pioneering specialized non-destructive testing in Western Canada since 1994. As a Canadian-owned and operated company, we have earned a reputation for excellence in non-traditional inspection services, with a special focus on introducing and developing new remote sensing technology and methods for Canadian industry.

Maverick has grown steadily throughout all economic cycles, and this expansion is accelerating. Our team of technical and administrative experts has at its core a group of long-term employees committed to safety, diligence, and innovation. We love what we do and the corporate culture we have created, and our mission is to continue to create and enjoy a safe, sustainable, leading-edge work environment in the company of our fantastic coworkers, vendors, and clients.

Maverick's Inspection Services Include:

- Remote Video Inspection
- Ground-penetrating Radar
- Infrared Thermography
- Laser Pipe Profiling
- Utility Line Locating
- Research and Development

Some of the Industries We Work With:

- Pulp & Paper
- Oil & Gas Processing, Storage, and Transportation
- Power Generating and Other Utilities
- Mining & Exploration
- Chemical Processing
- Infrastructure
- Construction
- Manufacturing
- Engineering
- Law Enforcement
- Archeology and Forensics

Our technicians perform a wide range of field services, even within the different disciplines and departments at Maverick. Sometimes they are deployed for rapid-response emergency troubleshooting for outages and critical work. Often we are included in a scheduled work flow prior to other inspection, construction, or maintenance tasks. We also work with our clients to plan specialized inspection requirements for turnarounds and assist in the development of predictive maintenance execution plans.

Our different technologies and methods are often combined to provide complementary data, such as the use of Ground-penetrating Radar (GPR) and Remote Video for drainage systems. Other examples would include combining Infrared Thermography and GPR for building science or utility locating, or Infrared Thermography and Remote Video for industrial process troubleshooting. Additional disciplines such as Geomatics or Software Data Analysis are often included with our core services for more in-depth interpretation and reporting of results.

A Message from the Founder and President of Maverick:



From the very beginning, Maverick has been a long-term project. We not only look out for the current interests of our family of employees, clients and vendors: we are always planning for the next opportunities and challenges. Maverick's mission has always been to sustain and build a company that keeps everyone safe, profitable, and enjoying what we do. We are

always moving forward, evolving and innovating, but we never lose sight of our small company roots and our responsibilities.

A handwritten signature in blue ink, which appears to read "Phil Bedard".

MAVERICK INSPECTION LTD. TECHNOLOGY,



GROUND PENETRATING RADAR (GPR), UTILITY LINE AND FEATURE LOCATING

Ground-penetrating Radar (GPR) is an economical, safe and effective tool that benefits various industries including construction, oilfield, chemical, manufacturing, engineering, forensics and archeology. GPR uses directed radio signals to locate and analyze subsurface features embedded in and below concrete, soils, ice and other non-conductive materials. Depending on the job scope, the results are interpreted in real time or the data is loaded into analysis software for more in-depth examination and reporting.

GPR Applications Include:

- Concrete Scanning
- Forensics
- Void & Saturation Detection
- Utilities
- Archeology Studies
- Piping & Wellheads
- Graveyards
- Asphalt / Ice Highway Profiling

One of Maverick's specializations is locating secondary, private, and unusual subsurface utilities and structures. This service complements, but does not replace, the Alberta 1st Call services. It is typically used in situations where the utilities are not locatable by legislated mandatory locating and notification services. Typical sites and applications include industrial facilities, commercial properties, and environmental studies.

Maverick combines traditional utility locating equipment and methods with other technology such as Remote Video, Infrared Thermography, and other systems to locate subsurface features. This data gathering is often in conjunction with other investigations such as subsurface contamination mapping, critical crane lift pre-scans, or substrate studies related to pipelines or roadways.

Specialized Utility Locates Include:

- Metallic Gas Lines
- PVC/ABS Plastic Plumbing Lines
- Concrete Infrastructure Lines
- Ferrous/Non-ferrous Data and Communications Networks
- Active or Inactive Electrical Lines
- Industrial Fire-Water and Drainage Systems
- Underground Storage Systems
- Curb Cocks
- Warehouse and Commercial Building Systems

EXPERTISE & SOLUTIONS



REMOTE VIDEO INSPECTION

Maverick's Remote Video Inspection (RVI) department provides 24 Hour service with an arsenal of specialized video cameras for accessing and recording the internals of equipment, systems, and facilities. Maverick's video equipment is portable and versatile for rapid deployment, and we are the first to provide CSA rated explosion-proof remote camera systems for hazardous environments.

The systems range in size from flexible scopes a few millimeters in diameter, to piping camera systems on push reels, to large tracked or wheeled crawlers with pan and tilt robotic camera heads. Often these systems can be complemented with accessories such as extra lighting, retrieval tools, measurement systems, inclinometers, laser profiling, and a variety of custom features.

Video Inspection Applications Include:

- Pipelines & Piping
- Boiler & Heat Exchanger Tubes
- Drainage Systems
- Underground Tanks & Knockouts
- Pressure Vessels
- Sulphur Pits
- Power Systems
- Furnace & Flare Stacks
- Storage Vessels
- Forensic Investigations
- Mechanical Systems and Rotating Equipment
- Building Systems



LASER PIPE PROFILING

Laser Pipe Profiling (LPP) is a stand-alone, snap-on tool for use with a CCTV video crawler or camera system in order to collect data and create pipeline reports, including fault measurements and internal pipeline features. This advanced technique is used to determine the accurate surface profile of a pipe or other structure. During a survey, the system projects a laser generated ring of light onto the interior of a pipe or structure wall to capture accurate measurements of the internal surface.

Laser Software Analysis Includes Measurement of:

- Ovality
- Corrosion
- Material Loss
- Variations in the Internal Diameter
- Material Build up
- Sediment Depth



INFRARED THERMOGRAPHY

Our thermography department has been accumulating application-specific experience since it was added to Maverick in 2000. This technology is used extensively in industrial and manufacturing facilities for predictive maintenance programs, troubleshooting, monitoring, and trending equipment, processes, and systems. As with Maverick's other technology, the data can be interpreted in real time for many applications, and is often loaded into software for more advanced analysis and reporting.

Typical IR Applications Include:

- Identifying problem areas in electrical and mechanical systems
- Analyzing building envelopes and membrane systems
- Troubleshooting industrial process and storage systems
- Specialized utility locates such as in-floor heating systems
- Furnace and boiler refractory surveys
- Research and development data collection



**INTRINSICALLY SAFE
AND EXPLOSION PROOF
SYSTEMS AVAILABLE**

MAVERICK INSPECTION LTD.



OUR SAFETY PROGRAM

Safety is an integral part of Maverick Inspection's daily operations.

We believe that company culture, safe behavior, accountability and a safe environment must be managed and we continually work together in order to have an effective safety system. Safety performance is evidence-based. What we do and how we do it will determine incident rates, number of lost days, injury and illness, and injury cost claims.

Every job performed by Maverick begins with a hazard/risk assessment to determine hazards and associated risks prior to performing work.

The health and safety of our employees, clients, vendors, and the public is vital to the sustainability of our company. We recognize that the greatest asset of any organization is the people and the environment they work and live in.

Although compliance with client requirements, local standards, and applicable legislation is always necessary, we believe that it is equally important for safety to be intrinsic to Maverick's culture and operations. Our commitment to safety is never sacrificed for any other aspects of doing business, and our track record attests to this with zero lost time injuries or fatalities since the company began.

Maverick's Safety Program

- Work Safe Alberta Best Safety Performer
- COR (Certificate of Recognition) through Certifying Partner ENFORM since 2005, with an outstanding safety culture since the late 90's, and company safety program that meets/ exceeds both industry standards and government set safety standards
- Maverick Inspection has met the oil and gas industry standards for basic safety awareness training as evidenced through a IRP 16 membership with ENFORM for several years
- Online with Compliance companies, including:
 - ISNetworld
 - CanQual
 - ComplyWorks
 - PICs





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