

## CORPORATE PROFILE

Matrix Solutions Inc. is a full service environmental management and engineering consulting company with multi-disciplinary teams of engineers, scientists and technologists. Matrix services include:

- river engineering and aquatics assessments,
- site assessments and reclamation,
- monitoring and remediation of contaminated groundwater and soils,
- environmental impact assessments and audits, and
- project/program peer review and monitoring.

From our head office in Calgary and several other offices in Alberta and British Columbia, we serve industry, government and institutional clients throughout western and northern Canada, and worldwide.

## Water Resources Services

Matrix water resources services include design, permitting, construction and long-term monitoring for: pipeline and bridge watercourse crossings; hydraulic structures; water intakes; and, erosion and flood control measures. Recent projects include:

- **Centre Street bridge rehabilitation, Marquis of Lorne (22X) Bridge twinning, Glenmore Trail Graves Bridge widening, Glenmore Reservoir causeway and current planning for the Gateway pedestrian bridge, City of Calgary.** Matrix provided the hydrotechnical design and obtained the regulatory approvals (AENV, DFO, TC) for each of these bridges for the City of Calgary. Water management and sediment control planning and designs were provided in addition to instream monitoring, regulatory reporting and hydrotechnical engineering inspections during construction. Fish and fish habitat assessments were provided for the Glenmore Causeway and post construction assessments are to be provided at Graves Bridge as part of the regulatory approvals.

- **Policeman Creek Pedestrian Bridge, Spring Creek Mountain Village, Canmore.** Matrix provided the hydrotechnical design and regulatory approval (AENV, DFO, ASRD) assistance for this laminated wood bridge crossing. The hydrotechnical input relied on previous flood risk mapping and watercourse crossing designs on Policeman Creek prepared by Hydroconsult (amalgamated with Matrix in 2005).

- **Griffith Woods Park trail system, City of Calgary.** Matrix developed the proposed restoration and conceptual design of four crossings of a tributary of the Elbow River after the 2008 flood. Alternative design concepts were developed and evaluated in view of the environmental and aesthetic sensitivities in this natural park area. Matrix provided hydrotechnical and aquatic assessments and presentations to the City.



*Centre Street bridge*



*Policeman Creek*



*Washed out trail at Griffith Woods*