WATER RESOURCES

Hatfield provides a complete set of water management services to government and private clients

OUR WATER SERVICES INCLUDE:

Water Resource Assessment
- Aquifer Characterization
- Water supply and demand

Water Permitting and Licensing

Expert Knowledge
- Regulatory / strategic advice
- Third party technical reviews
- Guidance development

Baseline, Due Diligence and Effects Monitoring
- Hydrometric, groundwater and climate station networks
- New real-time data transmission and acquisition
- Data management and analyses
- Web-based portals for data sharing

Environmental Assessment
- Surface and ground water modelling
- Impact mitigation and management plans
- Environmental flow requirements
Hatfield’s Water Resources Group offers a full range of water resource services from installation of surface water, groundwater, snow and climate monitoring stations and completion of technical studies to provision of strategic and technical advice, and water permitting.

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ISO 9001 Certified

FEATURED PROJECTS

SILVERTIP MINE PERMITTING AND MONITORING

Hatfield is providing a range of groundwater services to support mine permitting and monitoring in a challenging setting in northern British Columbia. That setting includes remote access, harsh winter climate, complex karst hydrogeology and potential for surface water flow impacts. Our work has included:

• Installation of groundwater monitoring wells and pressure transducers, monitoring and water quality sampling;
• Mine permitting support, including interaction with regulators;
• Development of a Water Monitoring and Management Plan;
• Groundwater modelling of mine closure scenarios.

COLONIAL COAL BASELINE SURVEYS

Hatfield undertakes snow course surveys for mining clients to contribute to run-off models and water balances. Depending on the location, surveys are generally performed in February, March, and April at selected sites to gauge snow pack extent, SWE, and freshet timing. These form part of the comprehensive baseline studies of local hydrology and aquatic resources (surface water quality, periphyton, benthos and fisheries) that were prepared for the purpose of submitting a formal application to develop a coal resource for Colonial Coal. A total of eight hydrometric stations are operated along with eight snow course sites to evaluate the local hydrologic conditions.

EXPERT REVIEWS AND TECHNICAL SUPPORT

Hatfield has provided its expertise to support government on a number of recent projects, including:

• Hydrology/hydrogeology review of the Rio Tinto Alcan Terminal A Expansion on behalf of the BC Ministry of Environment (MOE);
• Hydrogeology review of the Teck Coal Baldy Ridge Extension on behalf of the BC Environmental Assessment Office;
• Supporting development of a framework to license existing groundwater users in the West Coast Region of BC, for the Ministry of Forests, Lands and Natural Resource Operations;
• Revision of the BC MOE Groundwater Policy and Procedures Manual to reflect recent updates to the Water Sustainability Act and Groundwater Protection Regulation.

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WHY HATFIELD CONSULTANTS?

Established in 1974 and based in Vancouver, Canada, Hatfield Consultants has built a worldwide reputation in environmental services with over 4,000 projects in Canada, Asia, Africa, South America and Europe. With company offices in Canada, Indonesia, Laos, Cambodia and Botswana, as well as business partners in Chile and Thailand, we are well positioned to respond to your individual project needs and requirements – wherever you are.

We help you apply best environmental practices and contribute to a sustainable future.