

WATER AND LAND USE IN ALBERTA

***Sustainable Resource Management
in a Boom Economy***

PROGRAM CHAIR

Richard C. Secord
Partner
Ackroyd LLP

OFFICIAL PUBLICATION



December 4 – 5, 2006 • The Metropolitan Centre • Calgary

Alberta is facing an emerging water crisis as the economic boom in the energy industry continues at rapid speed. Attend to hear senior representatives from key sectors and primary stakeholders share insights, updates and strategies on:

- Developing proper consultation processes for land and water resource use and planning
- The emerging private water market as a planning and environmental issue and related regulatory challenges
- Regulating surface and groundwater use and transfers
- Ensuring water supply and managing the costs
- Managing and distributing risk associated with land and water use planning
- Case study and lessons learned on water basin and ground water licensing
- Watershed management in the north and south as estimates for oil sands operations increase
- Land use licensing to meet agricultural needs
- Spacing of wells and oil and gas infrastructure, ensuring the necessary coordination

and much more...

SPECIAL KEYNOTE ADDRESSES

Effectively Managing Water in Alberta: Environmental Sustainability Amidst Rapid Growth

Neil Barker, Executive Director
Sustainable Resource Development Office,
Alberta Environment

Energy and the Environment – On a Collision Course?

Dave A. Russum, Manager of Geoscience, AJM Petroleum Consultants

ENROLL TODAY! Call 1-888-777-1707 or fax 1-866-777-1292
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ALM



WHO SHOULD ATTEND

**From Oil and Gas,
Energy and Other
Resource Sectors:**

- **Presidents,
Vice-Presidents,
Directors and
Seniors Managers of:**
 - Environment,
Health and Safety
 - Regulatory and
Government Affairs
 - Sustainable
Development
 - Land Use
and Planning
 - Project Development
 - Risk Management
 - Business
Development
- **Production and
Exploration Engineers**
- **Environmental
Consultants**
- **Hydologist/
Hydrogeologists**
- **Environmental Lawyers**
- **Corporate Counsel**
- **Regional and
Municipal Planners**
- **Municipal, Provincial
and Federal Regulators**
- **Urban Planners**
- **ADR Specialists**
- **Aboriginal Groups**

Dear Colleague,

The economic boom in Alberta continues to dominate commercial activity in the province. A major concern for industry is its ability to access more and more land and water reserves for development. The strain on Alberta's water threatens to exhaust the existing supplies. On August 30, 2006, a long-term vision for managing the water supply for southern Alberta was approved by the Province through its South Saskatchewan River Basin (SSRB) Water Management Plan. The first of its kind in Alberta, the water management plan recommends new ways of managing water resources to help balance the needs of the environment and economy.

As part of the plan, Alberta Environment will no longer accept new water licence applications for the Bow, Oldman, and South Saskatchewan sub-basins. Water allocations may still be obtained through water allocation transfers.

With the industrial boom having no end in sight it is imperative for the government and industry to engage in a consultative framework that manages the risks associated with the unprecedented demand for water and land. In order to protect both public and private interests, government, industry and other stakeholders must design a long-term sustainable development resource planning strategy to serve all interests involved.

This Insight Information conference will provide a timely opportunity to hear how colleagues in Western Canada are tackling the challenge of an over-extended demand on natural resources. It will allow you to share successful strategies with your peers in the development of workable business solutions and approaches to stakeholder consultation in order to protect environmental concerns without hampering economic growth.

We look forward to seeing you there.

Richard C. Secord
Partner
Ackroyd LLP

COMMENT FROM A PAST DELEGATE

"The program helped me gain a broader understanding of issues and different perspectives surrounding water and land regulatory issues. I feel better equipped to address potential concerns we may be faced with in future."

Karl Zajes, Surface Rights Solutions (Warburg, Alberta)

Delegates will receive a set of original materials as well as online access to fully searchable conference papers through Insight's INCONFERENCE™ that will serve as an invaluable reference source.

MONDAY

DECEMBER 4, 2006

8:15 Registration and Continental Breakfast

9:00 Welcoming Remarks from Insight Information

9:05 Chair's Opening Remarks

Richard C. Secord

Partner

Ackroyd LLP

**9:15 Special Keynote Address:
Water and a Role for Partnerships**

Jim Oosterbaan

Senior Vice President

EPCOR Alberta

**10:00 How the Alberta Regulatory Framework
is Evolving to Protect Water Supply –
The Consultation Process**

Richard C. Secord

Partner

Ackroyd LLP

- Alberta policy update: status of the comprehensive land-use framework for the province
- Public lands and proper public consultations
- Government classifications on land protection
- Explosive growth and the conflict of land use: what areas are prohibited or excluded from development

10:45 Coffee Break

**11:00 Putting Produced Water to a Useful Purpose -
Regulatory Gaps and Other Concerns**

Arlene J. Kwasniak

Assistant Professor, Faculties of Environmental Design and Law
University of Calgary

- Abundance of produced water and expected increased quantities
- Current "waste" of produced water
- Use and reuse in U.S. states

- Ownership and right to use issues
- Quality issues
- Need for regulatory reform

11:45 Effective Land Use Planning

Mike Knox

Oil and Gas Manager

PHH ARC Environmental Ltd.

- Project planning – environmental field reviews
- Understanding stakeholder relations
- Public concerns about oil and gas developments
- Benefits of stakeholder participation
- Developing stakeholder consultation strategies
- Communication and continuous improvement

12:30 Networking Luncheon

**1:30 Special Keynote Address:
Energy and the Environment – On a Collision Course?**

Dave Russum

Manager of Geoscience

AJM Petroleum Consultants

The oil and gas industry has been a mainstay of the Canadian economy for many years. Canada has huge resources, however, much of the easily produced 'conventional' oil and gas have been extracted. Future supplies will come from 'unconventional' resources such as tarsands, coalbed methane and tight gas. Unconventional Resources have many technical definitions but the simplest way to review these resources is 'more challenging to produce'. The solutions to these challenges are varied but they translate into more costly procedures, more wells, more use of other resources and more impact on the environment. In turn this leads to more conflict with other surface and subsurface users. This presentation provides an overview of macro energy issues in North America and identifies some of the challenges that the Industry, Government and the general public must address if Alberta is to be a significant oil and gas provider for generations to come.

2:15

Special Afternoon Address: Water and Land Use in Alberta amidst Rapid Growth

Tim LeClair

*Infrastructure and Environment Director
Metis Settlements General Council*

Neil Barker

*Executive Director
Sustainable Resource Development Office
Alberta Environment*

economy associated with rapid population growth and associated urban sprawl in support of rapid resource development. All this development is occurring in a region where global climate change is expected to have substantial impacts on land and water in the next few decades. This session will cover the following:

- The potential impacts of a range of human activities associated with some of the most intensive and extensive resource development plans focused on one region - Alberta
- Oil sands investments: there are plans to double and triple primary and secondary agricultural production; expand coal mining in support of conventional coal fired power plants; and establish CBM well networks over much of the southern half of the province, including extensive development of CBM on the eastern slopes of the Rocky Mountains, the principal source of water for most of the semi-arid Canadian plains.
- The development pace and direction may result in widespread environmental contamination of regional, and perhaps global, consequence

3:00 Refreshment Break

3:15 Regulatory Framework for Private Water – Emerging Industry, Environmental Technology, and Pricing

Ken Mills

*Partner
Blake, Cassels & Graydon LLP*

- The emerging private water market as an environmental issue and its regulatory demands
- Watershed in the north and south as estimates for oilsands operations increase
- Water sourcing from underground and re-injection but diverting from fresh streams: the ability to license water use

4:00 Cumulative Effects – Land and Water Resource Development in Western Canada

James M. Byrne, Ph.D.

*Professor of Geography
and Environmental Science
University of Lethbridge*

Alberta contains most of Canada's fossil fuel energy resources, including: extensive conventional crude oil and natural gas fields; widespread coal deposits over the southern half of the province with potential for mining and coal bed methane extraction (CBM); and the Athabasca oil sands – a crude oil supply of at least several hundred billion barrels entangled in extensive sand deposits lying along the Athabasca River. The province is also a focal point for intensive agriculture in the form of irrigation that has led to over allocated rivers in the south, and a booming

4:45 Conference Adjourns for the Day

TUESDAY

DECEMBER 5, 2006

8:15 **Continental Breakfast**

9:00 **Chair's Opening Remarks**

Richard C. Secord

Partner

Ackroyd LLP

9:15 **Minimizing Environment Damage from Energy Development**

Danielle Droitsch

Legal and Policy Analyst

The Pembina Institute

- Clash of land use for energy sector developments in rural areas
- Land and water resources at risk and opportunities for avoiding impacts or mitigating damages
- Approaching industrial development in the energy sector from a cumulative effects perspective

10:15 **Coffee Break**

10:30 **Wildlife, Habitat and Species at Risk Act – Developments and Compliance Challenges**

Peter Jalkotzy

*Principal Consultant, Environmental Practice
EBA Engineering Consultants Ltd.*

Janice H. Walton

Blake, Cassels & Graydon LLP

- Alberta's new rules on the implications of the updated *Species at Risk Act*
- Implications for oil and gas activities and wildlife habitat protection, especially near water areas

11:30 **Stakeholder Relations in an Era of Water Scarcity**

Gavin Fitch

Partner

McLennan Ross LLP

- Dealing with the regulators: Alberta Environment and the EUB
- Dealing with local municipalities
- Dealing with individual landowners and local surface rights groups

12:30 **Networking Luncheon**

1:45

Special Afternoon Address

Effectively Managing Water in Alberta – Environmental Sustainability Amidst Rapid Growth

Neil Barker

Executive Director

*Sustainable Resource Development Office
Alberta Environment*

2:45

CBM and Water Quality – An in-Depth

Case Study on Accountability

Allan Ingelson

Associate Dean, Undergraduate Programs

*University of Calgary, Haskayne School
of Business*

- Mandatory well testing – EUB directives 035 and 056
- Canadian CBM best management practices – an update
- Resolving well owner complaints about the impact of CBM drilling and production
- Streamlining the CBM approval process

4:00 **Conference Concludes**

CASE STUDY

UPCOMING INSIGHT EVENTS

ALBERTA POWER

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WATER AND LAND USE IN ALBERTA

**Sustainable Resource Management
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Conference Code: OGC06070

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