An Overview of the Regulation of Water Use in BC for the Oil and Gas Industry

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#### **Overview**

#### The Fine Print

 The information provided in this presentation is for informational purposes only and does <u>not</u> constitute legal advice. Although we have made every effort to ensure the accuracy of the information provided, it should not be acted or relied upon without retaining and consulting with counsel. The opinions expressed during the course of this presentation are solely those of the authors. Any questions regarding the content of the presentation should be directed to them.





# From the Water Act to the Water Sustainability Act

- •History
- Development
- Important Changes



# CURRENT REGULATORY FRAMEWORK

#### The Water Act, R.S.B.C. 1996, c.483

- 1909 First Enacted
- 1912 Office of Comptroller of Water Rights
- 1939 Regulation streamlining the Act
- 1960 Provisions for regulating groundwater



## The Oil & Gas Commission

- OGC formed in 1998
- Consolidated oil and gas authorities in one organization
- Efforts to streamline continued *Oil and Gas Activities Act* and supporting Regulations



#### Water Uses

- Completions (Fracking)
- Drilling
- Seismic
- Water floods
- Facilities
- Roads
- Pipeline testing



#### **Water Sources**

#### Surface

- Rivers
- Lakes
- Borrow pits

Subsurface

- Aquifers
  - fresh (shallow)
  - saline (deep)



#### **Historical Water Use**

	Q1	Q2	Q3	Q4	SUM
011	782,388	662,767	1,266,317	1,100,613	3,812,085
012	1,345,289	982,376	1,088,192	340,607	3,756,464
013	1,061,417	482,054	605,408	747,986	2,896,865
014	1,135,656	569,758	616,073		2,321,631

Source: OGC Q3 2014 Water Use Summary



## **Permits & Licenses**

#### **Temporary Water Permits**

- Permits use of water for a period of up to 24 months
- Upwards of 250 active temporary water use permits held by companies in Northeastern B.C.

#### Water License

- No delegated authority to OGC
- Applications are more comprehensive and generally take longer to get approval



# *Oil and Gas Activities Act* and Regulations

- October 2010 OGAA brought into force
  - Drilling and Production Regulation/Environmental Protection and Management Regulation
- Enhanced groundwater protection shallow fracturing; increased casing depth requirements, record of fracking fluids
- Changes to waste water disposal and storage requirements



#### **Groundwater Extraction**

- B.C. is the only jurisdiction in Canada to not regulate groundwater extraction...for now
- However, OGAA and Regs require companies using groundwater for fracking and other purposes to account for such withdrawals
  - Water source well permitting and reporting
  - Increased enforcement
  - Recent changes additional testing, data collection and monitoring



### **New Water Source Well Requirements**

#### Shallow < 600m

- Drilling: geological conditions must be logged and well registered with Provincial Wells Database
- Hydrogeological Assessment: desktop review/field reconnaissance/pumping test
- Monitoring groundwater monitoring wells/long-term monitoring program
- Water Quality Sampling & Analysis
- Data Collection & Interpretation



### **New Water Source Well Requirements**

#### **Deep > 600 m**

- Drilling logs, water sampling, monitoring well and longterm monitoring program required
- Other requirements hydrogeological interpretation, monitoring, reporting etc. at discretion of OGC

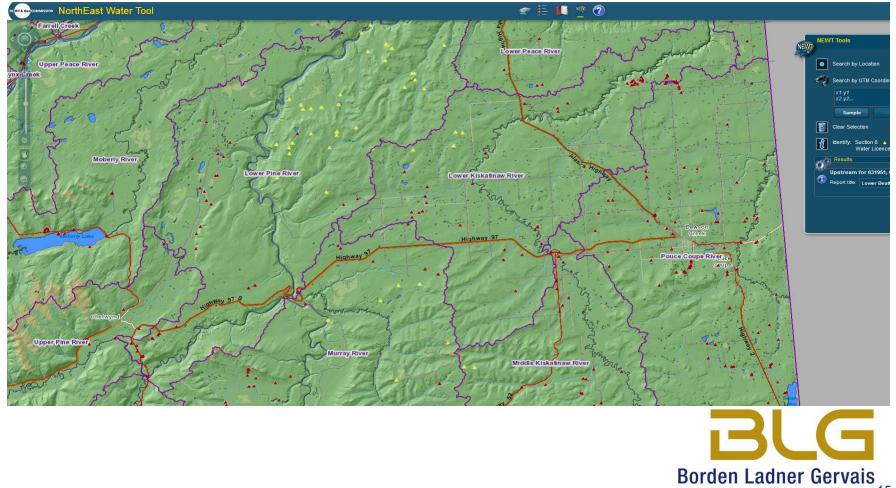


#### What about Rainwater?





### Northeast Water Tool (NEWT)



#### **Development of a New Act**

#### Consultation Begins - 2009

- Policy Proposal 2010
- Legislative Proposal 2013

#### • Bill 18 – March 11, 2014

- Passed 3<sup>rd</sup> reading April 29, 2014
- Not yet in force (January 2016?)



#### Water Sustainability Act Overview

Stated Goal:

"To develop a new legislative framework based on risk, competing demands and scarcity, and enable an area-based approach for water management."



## **Key Policy Directives:**

- 1. Protect stream health and aquatic environments
- 2. Consider water in land use decisions
- 3. Regulate and protect groundwater
- 4. Regulate water use during times of scarcity
- 5. Improve security, water use efficiency and conservation
- 6. Measure and report large-scale water use
- 7. Provide a range of governance approaches



## **Regulation of groundwater**

- Establish a regulatory framework for existing and new groundwater use
- FITFIR would apply
- Transition period of 3 5 years for existing users



#### **Deep Saline Groundwater**

- Not exempted from the WSA
- Listed in pricing regime, but no rental or application fees
- Deep saline groundwater will be regulated, but at this point, no fees incurred for use



# Authorizations Granted and Rights Acquired

- Two forms of authorizations licences and use approvals
- Conditional licences can be transitioned to final licences
- Rights granted are use rights, not property rights



#### **Beneficial Use**

- Licencee must make regular beneficial use of the water or can be revoked.
- May be required to provide a declaration of beneficial use which will pertains to the immediate 3 year period
- Act includes definition of beneficial use includes an efficiency component
- Decision maker can audit use



### **Approval Process**

- Must apply in the manner and form prescribed and pay appropriate fee
- Must include information about other uses affected
- Decision maker given discretion to collect information and verify information collected
- Applicant must give notice to potentially affected users
- Notified users can object and the decision maker can order a hearing if warranted



#### **Environmental Flow Needs**

- Decision Maker must consider environmental flow needs (EFNs) for new licence/short-term approvals
- EFNs refer to the "quantity and timing of flows in a stream that are necessary to sustain freshwater ecosystems."
- Expand prohibitions on dumping debris
- Consider all waters "hydraulically connected"
- More consideration of sensitive streams
- Water objectives must be considered



### **Precedence of Rights**

- First in Time, First in Right
- But, if registered on the same day, a ranking:
  - (a) domestic
  - (b) waterworks
  - (c) irrigation
  - (d) mineralized water
  - (e) Mining
  - (f) industrial
  - But, rights can always be overridden in times of need

- (g) oil and gas
- (h) power
- (i) storage
- (j) conservation
- (k) land improvement



## **Regulation During Scarcity**

- To protect "Critical Environmental Flows" specific modifications to FITFIR would be permitted.
- "Environmental Flow Needs" concern long term flow threshold, when granting new licences.
- Critical Environmental Flows concern a short term flow threshold, below which irreversible harm to the aquatic ecosystem may occur.
- "Essential Household Use" would trump FITFIR.
- Would be decided by Comptroller of Water Rights or Regional Water Manager.

Borden Ladner Gervais

### **Increased Enforcement and Penalties**

- Increased investigative powers
- Administrative Monetary Penalties
- Entitled to notice and a hearing
- Entitled to an appeal to the Environmental Appeal Board



# Schedule of Application and Rental Fees

- BC just released its Detailed Fees and Rentals Schedule – to be implemented in 2016
- Pricing is based on principles including, simplicity, fairness, impact on resources, cost recovery, efficiency and health
- Fees vary based on volume and type of use
- Highest Application Fee \$10,000
- Highest Rental Rate \$2.25 per 1,000 m<sup>3</sup>
- Rental rates still among lowest in country



# Application and Rental Fees for Oil and Gas Use

- Oil Field Injection and Hydraulic Fracturing:
  - Application Fees:
    - •Less than 500 m<sup>3</sup>/day \$1,000 (was \$500)
    - •Between 500 m<sup>3</sup>/day and 5,000 m<sup>3</sup> per day \$5,000 (was \$500)
    - •Over 5,000 m<sup>3</sup>/day \$10,000 (was \$500)
  - Rental Fees:

•\$2.25 per 1,000 m<sup>3</sup> (was \$1.10 for injection, \$0 for Hydraulic Fracturing)

- No application or rental fees for deep saline groundwater for either.
- Drilling:
  - \$1,000 Application Fee
  - \$2.25 per 1,000 m<sup>3</sup>



## **THANK YOU**

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