# **Environmental Management in Alberta:** *Engaging Albertans on Water Priorities*

Alberta Environment and Sustainable Resource Development

November 2012



#### Outline

- Framing
- The Conversation
  - What
  - Why
  - How
- Moving Forward

#### **Provincial Context**

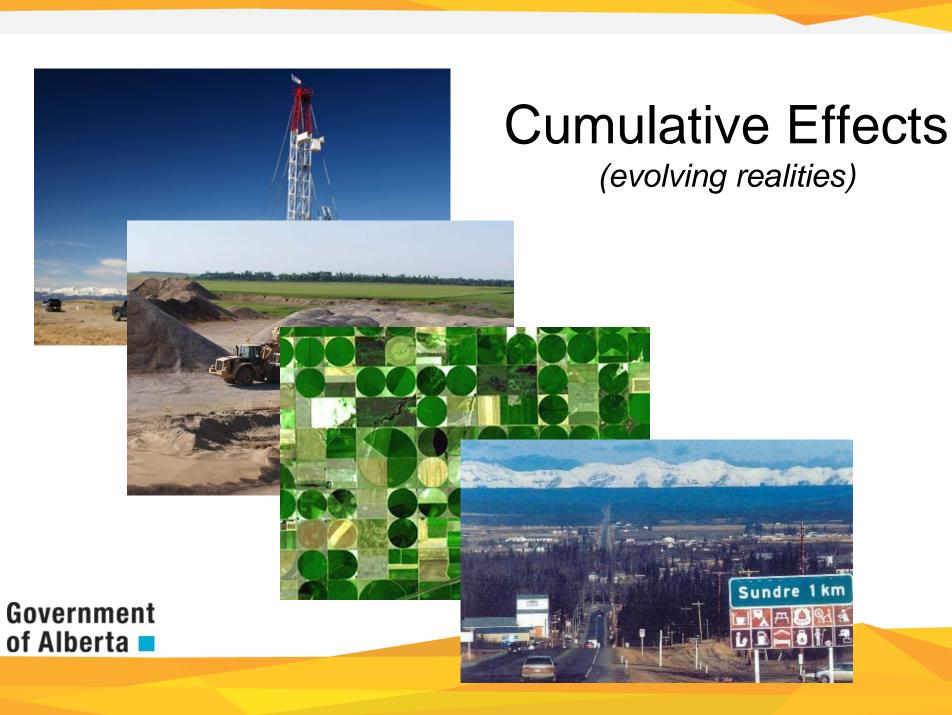
- Alberta is blessed with a range of natural resources
- Economic diversification is important for long-term sustainability...
- ...but natural resources will continue to play a foundation role in current and future quality of life for the foreseeable future
- Experiences with resource management provides an expertise and skill set for emerging global challenges
- Shift in Alberta from abundance and room to grow, to a need for enhanced management



# Current 'Policy Areas' of Focus

- Oil sands
  - Tailings, monitoring, management frameworks (quantity and quality)
- Wetlands
  - Enhancement of the current wetlands policy to apply to and reflect broader provincial outcomes, with planning and management done 'in place' to reflect regional realities.
  - Includes a shift from 'acres' to 'function'
- Water management
  - Promotion of conservation, efficiency, productivity including opportunities for re-use
  - Challenge of how to develop a regional approach to optimizing the water resources available for priority areas today and into the future
- Drinking Water and Wastewater
  - Exploring opportunities to ensure the sustainability of current systems
- Hydraulic Fracturing
  - Enhanced regulatory framework



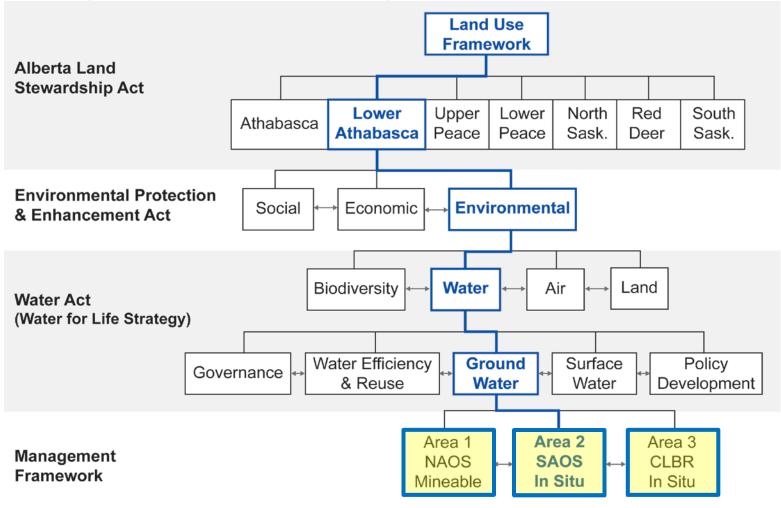


# OWER PEACE UPPER PEACE **UPPER ATHABASCA** SASKATCHEWAN Government of Alberta

# **Cumulative Effects Management**

- Land-use regions
- 2. Regional Advisory Councils for each region
- 3. Cumulative effects management
- Strategy for conservation and stewardship on private and public lands
- Efficient use of land
- 6. An information, monitoring and knowledge system
- Inclusion of Aboriginal peoples in land-use planning

# Integrated Management Approach





#### Evolution of Environmental Management

Provide regional context for decisions about future activities and management of existing activities

→ Shift from one-off authorizations with consideration for current circumstances to decisions based on regional 'expectations'

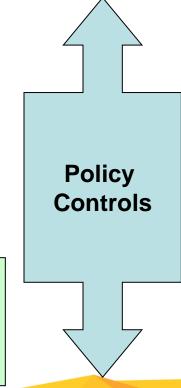
Establishing **limits** and **triggers** 



**Monitoring** and modeling to assess conditions



Response to triggers, including validation, investigation, management actions and reporting



Government of Alberta

	General Indicator	,	Water Qua	ality Triggers		Water Quality Limits		
		N	lean		Peak			
	Calcium (Ca <sup>2+</sup> )	3	34.7		48.8		1,000 <sup>c</sup>	
	Chloride (Cl <sup>-</sup> )	2	20.2		45.0		100 °	
	Magnesium (Mg <sup>+</sup> )	,	9.5		13.6		-	
	Potassium (K <sup>+</sup> )		1.4		2.1		-	
	Sodium (Na <sup>+</sup> )	Level	Descriptio	1	Management Int	ent		
	Sulphate (SO <sub>4</sub> -)	3	Exceedance of water quality		Improve ambient water quality to below limits			
	Total Dissolved		limits					
	Phosphorus (TDP)				Limit			
	Total Phosphorus (TP)	2	Exceedand water quali			tain water quality below limits. Ige and understanding of		
	Nitrate (NO <sub>3</sub> -N)		triggers	• 7	trends.			
	Government of Alberta =		Trigger					
			Mean and water quali or better th historical conditions	ty at	Apply standard regulatory and non-regulatory approaches to manage water quality.			

### Ensuring a Shared Water Ethic

- All Albertans are stewards of Alberta's water;
- Albertans act responsibly in managing and conserving water, to ensure the environmental, economic and social health of the province;
- Albertans recognize the importance of living within the capacity of the natural environment as a means of ensuring sustainability of water.
  - Requires the right level of knowledge by Albertans, and meaningful engagement with all stakeholders, including citizens
  - Need to have the right conversation about solutions based on a recognition of:
    - Water for communities (including water for food production)
    - Water for the environment (to have viable ecosystems)
    - Water for economy (linked to the above)



## Providing Assurance (1)

- Key considerations based on recent experiences
  - Information, facts, etc. critical, but low meaning without trust and confidence of source
  - Perceptions play a strong part of current reality
  - Trust and confidence take time to build/re-gain
  - Relationships underpin confidence and trust
  - Honesty is still the best policy



## Providing Assurance (2)

- Transparency
  - In management intent
  - In the type and confidence of the data that is collected (and what is not collected)
- Credibility
  - In the systems (including people) used (independence where necessary)
  - In the data collected and provided
- Relevance
  - In the systems used and data collected



### **Key Drivers**

- Water for Life has outstanding items to deliver
  - Recommendations in to government on key issues
- Albertans are asking for new ways of engagement
  - Right discussion at the right point in the right way
- Policy uncertainty (based on review commitments) may be a potential barrier to prosperity
  - Municipal growth, unconventional oil and gas development
- Water issues are complex

of Alberta

Government Long-term, societal, holistic

#### Content

- Key Elements
  - Broad conversation across the province
  - Details would be based on general information about the state of Alberta's water resources
    - o Identification of general opportunities and challenges
    - Highlight successes and current directions on environmental management
    - o Outline initial areas of potential priority for focus
  - Also about confirming what is not on the table
- Foundation is Water for Life
- Pre-cursor to advancing potential policy options to address priority issues



# Potential Priority Areas

#### Issues that:

- Span the interests and needs of all Albertans
- Require more immediate focus and action
- Have already involved significant analysis and assessment
- Require action in support of achieving economic, social and/or environmental objectives

#### Proposed areas:

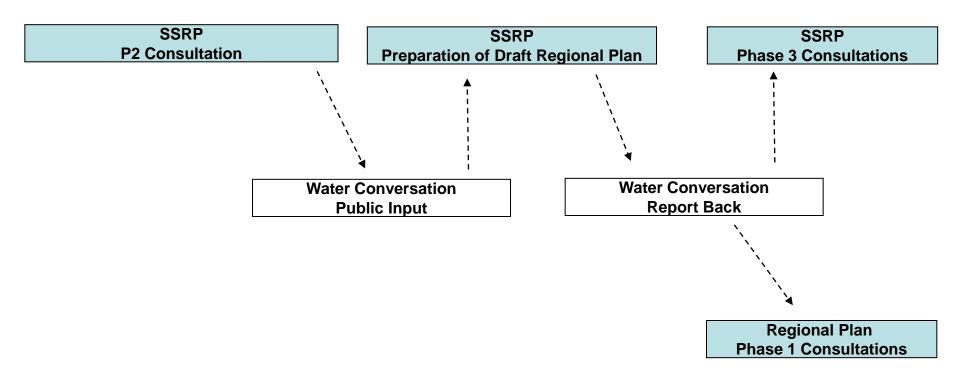
- Water Management
- Hydraulic Fracturing
- Healthy Lakes
- Drinking Water / Wastewater Sustainability



#### **Process**

- Water conversation could employ a range of tools
  - Face to face (non-traditional)
  - Social media
  - Use of existing forums and groups
- Emphasis on taking the time to confirm what we heard at the end of the process

#### Coordination





# Responsible Development

 Whole is greater than the sum of the parts **Transparency** SINGLE REG. **POLICY Policy** Regulatory **MONITORING Efficacy** Excellence **PROPERTY REGIONAL STRATEGIC RIGHTS DIRECTION PLANNING** Water Integrated **Ethic** Management Government of Alberta Respect of

**Rights** 

#### Items for Consideration

- General thoughts on
  - Intent
  - Approach
  - Initial focus areas
- Advice on engagement
  - Sector (e.g. Agriculture)
  - Formal Groups (e.g. AEPA)