Presentation to the Bragg Creek Chamber of Commerce



Planning for Bragg Creek's Natural Assets

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OUTLINE





OUTLINE

Planning

- Municipal
 Development Plan
- Area Structure
 Plan
- Calgary Metro Region Growth Plan
- Greater Bragg
 Creek ASP

Nature

- Assets / Functions / Services
- Natural Asset Inventories
- Valuation

Protection

- Conservation in the 21st century
- Identification vs protection
- Tools and approaches



Planning



Municipal Development plan (MDP)

- Statutory plan
- Everything we want to do in the municipality
 - 'May', 'shall consider'
- But we can't do it all
 - Not enough time, money, space
- Enabling clauses
 - $_{\odot}$ $\,$ Everything must connect to it





Area Structure Plan (ASP)

- Statutory plan
- Subsequent subdivision and development
 - "Sequence of development, proposed land uses, density of development and general location of major transportation routes and public utilities"





Area Structure Plan (ASP)

- The 'where' and some of the 'how'
- Enables the next level down
 - Conceptual Scheme, OutlinePlan, Lot Plan





Regional Plans



REGIONAL PLANS

Calgary Metro Region Board (CMRB) Growth Plan

- 'One ring to rule them all'
- For the whole region
- Identifies growth areas
 - This includes the Hamlet of Bragg
 Creek
- MDPs and ASPs must be approved by the CMRB



Growth Plan

EFFECTIVE AUGUST 15, 2022



BRAGG CREEK'S Plan



BRAGG CREEK'S PLAN

Greater Bragg Creek ASP

- Created in 2007, updated in 2016
- Currently being re-developed





BRAGG CREEK'S PLAN

Greater Bragg Creek ASP

- Terms of Reference just approved
 - (6) Natural Environmental features to ensure the inherent and intrinsic value of natural features are preserved;
 - (7) Economic Development and Tourism to ensure that increasing tourism and visitor traffic is provided for and managed effectively, and to ensure that amenities serving the local community are provided for.

Terms of	Reference F-6 Attachment
	rage i or
ROCKY VIEW COUNTY	Bragg Creek Area Structure Plan
	Terms of Reference
	Terms of Reference
	TOR #X-XXX
Executive	Summa ASP-Greater-Bragg-Creek.pdf
Direction	Project Focus
 On September 19, 2023, Council directed 	The review of the ASP will focus primarily on the
that a Terms of Reference be prepared	Hamlet Growth Area. The main objectives of the
for a review of the Greater Bragg Creek	review are:
Area Strouture Plan	 To determine the vision for the
	community with respect to land use
Schedule and Deliverables	 To determine the servicing needs for the
Phase 1 - Initiation and Planning	expected growth and development
O1-O2 2024	within the study area
Apprintment and meeting of Malacia	To identify english key prosets of Proset
 Appointment and meeting of Visioning Committee 	 To identify specific key aspects of Bragg Creak which should be guided by land use
Committee	policy, such as environmental protection
Preliminary Technical studies	and apparement tourism
 Updated TOR and budget adjustment 	and enhancement, tourism and
	economic development, and recreation.
Phase 2 – Project Refinement	Project Budget
Q3-Q4 2024	Project Budget
Updated TOR	A project budget of \$518,500 is required to
 Background Summary Report 	complete the project. This includes all technical
 Further Technical Studies 	studies related to the project. The County has
	applied for a grant through the Provincial
Phase 3 – Public Engagement	Northern and Regional Economic Development
Q1-Q3 2025	Grant, which could lower the County's
 Conduct Public Engagement 	contribution to the project budget by \$200,000.
 Engagement Summary 	
 Complete Technical Studies 	Principal Risks
	 The wide variety of interest groups are
Phase 4 – ASP Preparation and Public Review	likely to conflict in their visions for the
Q2-Q3 2025	community. Early and deep engagement
Draft ASP	should allow for appropriate
 Release for public review 	consideration of all interests.
	 External influences may have land use
Phase 5 – Refinement and Approval	impacts beyond the County's control.
Q3-Q4 2025	Continual engagement with those
Final ASP draft	interests should ensure policies align.
Council Public Hearing	 Servicing challenges will be addressed by
CMRB referral	extensive technical studies during the
Council adoption	project, and exploration of opportunities
- council adoption.	to share servicing costs.
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Nature

ECOSYSTEM ASSETS, FUNCTIONS AND SERVICES



ECOSYSTEM ASSETS, FUNCTIONS AND SERVICES





ECOSYSTEM ASSETS, FUNCTIONS AND SERVICES

Why is 'function' important?

- A focus on function allows you to target management action
 - *Disallow* things that impair the function / delivery of services
 - *Encourage* things that enhance function / delivery of services
 - Set localized or system-wide goals
 - E.g., Increase natural flood mitigation capacity





Natural infrastructure

- Recognition that nature provides 'infrastructure' services
 - Health, water management, sense
 of place, gathering sites, adaptation
- These can be identified and planned for
 - Protection, augmentation, restoration





Natural Asset Management (NAM)

- A specific approach used in the municipal context
- Most often in stormwater management
- Contrasts 'grey' and 'green' infrastructure
- Costs these 'assets', and adds them to the municipal asset management system

ADVANCING MUNICIPAL NATURAL ASSET MANAGEMENT:



The Town of Gibsons' experience in financial planning & reporting





Inventories

- Can vary
 - Can be focused on spatial identification, remote sensing
 - Can be community-based
 - Can include features or features/systems/benefits
- Can have financial assessment or economic assessment or non-dollar assessment





Fully Natural

- Rivers, streams, creeks
- Wetlands, lakes, ponds
- Riparian areas
- Wet soils
- Native vegetation
- Tree canopy

- Naturally permeable soils,
 - surfaces
- Vegetated
 - channels
- River and stream meanders
- Steep slopes, ridgelines

Built/engineered

- Constructed wetlands
- Stormwater
 - ponds
- Natural
 - vegetation
- Green roofs
- Open curbs
- Planted medians
- Vegetate swales

Infiltration planters /

 \bullet

- galleries
- Rain gardens
- Pervious surfaces
- Cisterns and rain barrels





VALUATION





VALUATION

Approaches

- Making the case
 - Broad theoretical numbers to show items have economic heft
- Costing infrastructure assets
 - Specific financial assessments
 that compute replacement
 value





VALUATION

Pros and Cons

- Financial valuation can get natural assets in the asset management (and budgetary) system
- Financial valuation can also tend towards 'easy to value' versus 'valuable'





Protection

IDENTIFICATION VS PROTECTION



IDENTIFICATION VS PROTECTION

Nature Inventories and Environmentally Significant Areas (ESAs)

IDENTIFICATION

- Note their importance
- Catalogue
- Map them

PROTECTION

- Maintain their identified values
- Action-oriented
- Restrictions and requirements



IDENTIFICATION VS PROTECTION

Protection

PROTECTING THE FUNCTIONS

of natural assets

ENSURING THE BENEFITS

of natural assets



CONSERVATION IN THE 21ST CENTURY



19th and 20th Centuries



Conservation

- Simple land use matrix
- \circ Draw lines around areas
- Cross fingers
- 1880's (Muir and Roosevelt draw lines and defend)
- 1980's (12% nothing happens; 88% pillage)



19th and 20th Centuries



Conservation

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19th and 20th Centuries



Rationale

• Didn't know what we were protecting

 $_{\circ}$ Triage

Policy

- Simple
- $_{\circ}$ Command and control



21st Century



Conservation

- $_{\odot}$ Complex matrix of land uses
- 'Systems' not 'pieces'
- $_{\circ}$ Humans and nature
 - 'protected' does not mean exclusion of human activity
 - 'System' not wholly contained in the
 - 'protected' area



21st Century



Rationale

- Resilience
 - Disaster, Climate change
- o Endurance (sustainability)
 - Ecological, Economic, Community

• Distribution

Access across the community to nature's services



21st Century



Policy

- Development aware
 - Business, Infrastructure, Human activity
- $_{\odot}~$ Beyond ecology and dollars
 - 'Soft' purposes
- Function focused
 - Where to direct the management action to

'conserve' what we value





Environmentally Significant Areas (ESAs)

- Different types
 - Provincial, municipal, regional

- NOT a protective designation
 - No associated guidelines, protection, constraints, etc. – simply an observation











Protection policy

Riparian Policy Wetland Policy

Development Guidelines

Buffers and Setbacks

Corridor Guidelines



Proposals to municipal governments must speak to their value in a variety of ways.

But 'environment' is described – unnecessarily – in a different way from other factors.



Exampl	es	CONTRIBUTORY	HARM REDUCTION
	HEALTH	Increase available services	
	EMPLOYMENT	Add new jobs	
	ECONOMY	Dollars-worth of new economic activity	
	SERVICES	Increase community services	
	ENVIRONMENT		Limit the amount of nature we destroy



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	HEALTH	Increase available services	Limit the number of people who die
	EMPLOYMENT	Add new jobs	Limit the number of people who lose jobs
	ECONOMY	Dollars-worth of new economic activity	Limit the drop in economic activity
	SERVICES	Increase community services	Limit the decrease in power supply
	ENVIRONMENT		Limit the amount of nature we destroy



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	ECONOMY	Dollars-worth of new economic activity	Limit the drop in economic activity
	SERVICES	Increase community services	Limit the decrease in power supply
	ENVIRONMENT	Add to / protect the flow of ecosystem services	Limit the amount of nature we destroy



Regenerative Tourism

TRADITIONAL	SUSTAINABLE	REGENERATIVE
Providing services and deriving financial returns	Providing services and deriving financial returns	Providing services and deriving financial returns
	Minimizing harm to the underlying system	Actively heal and enhance the underlying system



Moving Forward

Moving Forward

Be as proactive as possible

- Present your vision for nature-based tourism in Bragg Creek; don't wait for others'
- Develop a vision for regenerative tourism in the Greater Bragg Creek Area
- Do your own work, your own studies





Moving Forward

Engage with Bragg Creek Wild

- Learn more about regenerative tourism for the Greater Bragg Creek Area
- Watch for natural assets scan work in the community





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