EBM Working Group
Annual Report
to the
Land and Resource Forum

Fiscal Year
2007-2008

Introduction

This annual report summarizes the activities for the Ecosystem Based Management Working Group (WG) for the 2007/08 fiscal year. It includes a summary of the workplan implementation activities and the status of the budget as of March 31st 2008. A summary version of this report will be posted on the WG website.

Background

The North and Central Coast LRMP table recommendations informed government-to-government discussions between the Province and First Nations with interests in the North and Central Coast including, but not exclusively, members of the KNT, the Coastal First Nations of the Turning Point Initiative and the Tsimshian Stewardship Committee. Those discussions resulted in a First Nation and Provincial government land use decision announced on February 7, 2006, which was followed by the signing of government to government agreements.

The Provincial-First Nation land use agreements established a commitment to develop a terms of reference for, and establish, an EBM Working Group (EBM WG) to oversee technical and scientific work and make recommendations related to the further development and implementation of EBM in the Central and North Coast.

Ecosystem Based Management & Central and North Coast LRMP

Example territory, watershed, and site conservation planning.

Source: from Gitga'at EBM Pilot

EBM Elements
- Protect and Sustain First Nations Values
- Sustain freshwater ecosystems and Habitats at the watershed level
- Sustain Landscape and watershed scale biodiversity including Old ecosystem representation, red & blue list species
- Sustain stand level biodiversity
- Protect GB Critical Habitat
- Flexibility: meeting social, environmental and economic objectives

Land Use Announcement
- Signed Agreements & **Protocols** with First Nations on LUP implementation
- **EBM Zoning** System
- A Commitment to an LUP /EBM **governance structure**
- **EBM Objectives** to be implemented through legislative tools where appropriate
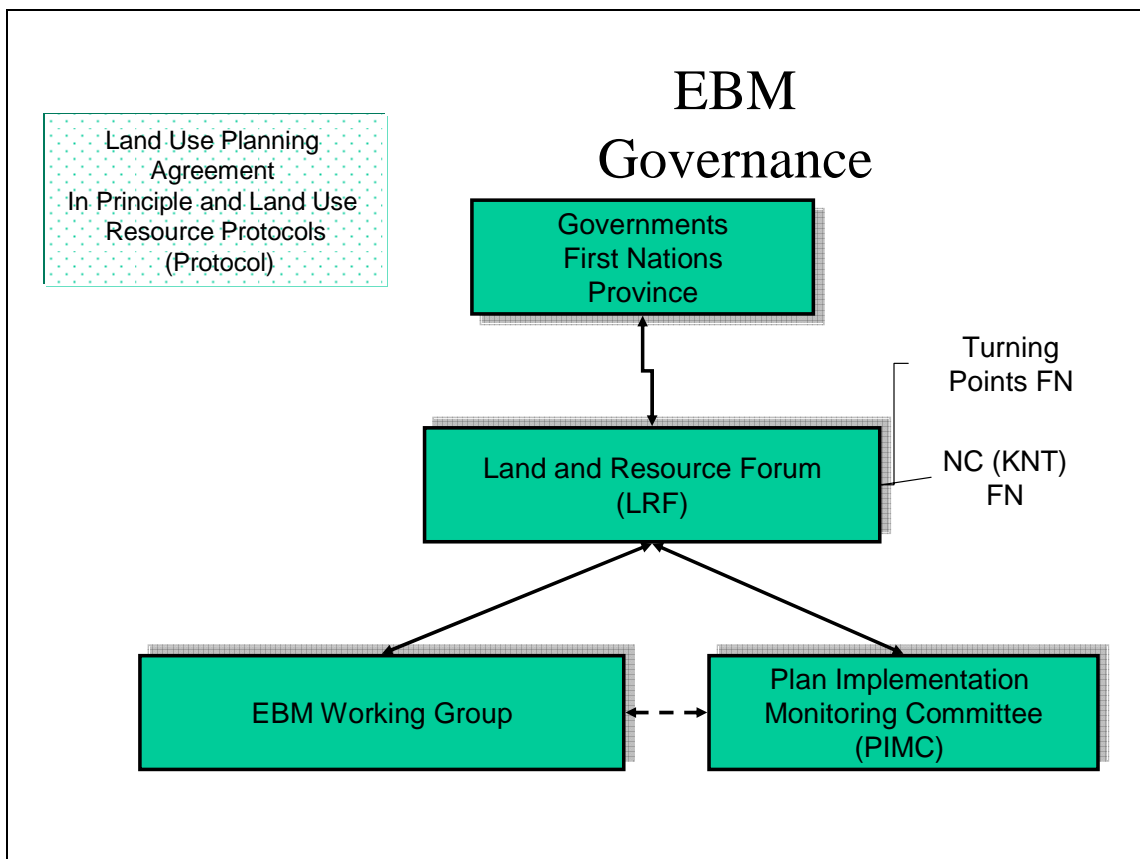- Multi Party **Conservation funding** mechanism

Web site:
http://ilmbwww.gov.bc.ca/ilmb/lup/lrmp/coast/cencoast/index.html

EBM Working Group web site:
http://ilmbwww.gov.bc.ca/lup/lrmp/coast/cencoast/ebm_wg.html

Governance Structure

The EBM WG is one component of the governance framework which is utilized to implement EBM and the land use plan. The other components comprise the 3 Land and Resource Forums (LRFs) and the North Coast and Central Coast Plan Implementation Monitoring Committees (CC and NC PIMCs).

The LRFs, comprising coastal First Nations and the Provincial government, oversee the work of the EBM WG and the CC and NC PIMCs. The LRFs receive recommendations from these committees and approve their budgets, work plans and annual reports.

The purpose of the NC and CC PIMCs is to monitor and report progress toward implementation of the land use plan and make recommendations on plan revisions to Provincial and First Nation governments through the Coastal First Nation, North Coast, and Nanwakolas Council Land and Resource Forums.

EBM
Governance

Land Use Planning
Agreement
In Principle and Land Use
Resource Protocols
(Protocol)

Governments
First Nations
Province

Turning
Points FN

Land and Resource Forum
(LRF)

NC (KNT)
FN

EBM Working Group

Plan Implementation
Monitoring Committee
(PIMC)

Membership

The membership of the EBM WG up to March 31, 2007 was as follows:

Member	Sector	Alternate
Kelly Brown	FN co-chair	
Denis Collins	Prov co chair (MFR)	Hal Reveley
Alex Grzybowski	Director	
Steve Gordon	MOE	Peter Levy
Amy Beetham	MFR	Rod Negrave
Wally Eamer	NC LRF	Merv Child
Grant Scott	CFN LRF	Cameron Brown
Dan Cardinall	North Coast LRF	Whitney Lukuku
Jody Holmes	Conservation	Audrey Roburn
Glen Dunsworth	Forestry	David Flood
Dorthe Jakobsen	ILMB	Dennis Crockford
Ralph Matthews	Economic interests	Terre Satterfield
Fraser Koroluk	Central Coast communities	
Davide Cuzner	North Coast communities	

EBM WG Events Calendar

The WG held 6 meetings and hosted 1 workshop during the fiscal year.

EVENT	EBM WB PROJECT	DATE
EBM WG Meeting # 1	EBM WG	October 31, 2006
EBM WG Teleconference	EBM WG	November 27, 2006
EBM WG Meeting # 2	EBM WG	December 14, 2006
EBM WG Teleconference	EBM WG	January 16, 2007
EBM WG Meeting # 3	EBM WG	February 15, 2007
EBM WG Meeting # 4	EBM WG	April 19, 2007
EBM WG Meeting # 5	EBM WG	May 29, 2007
EBM WG Meeting # 6	EBM WG	July 18, 2007
EBM WG Meeting # 7	EBM WG	September 25, 2007
EBM WG Meeting # 8	EBM WG	November 26, 2007
EBM WG Meeting # 9	EBM WG	January 24, 2008
Human Well Being Baseline and Targets Workshop #1	HWB 02: Human Well Being Baseline and Targets	March 7, 2008

Budget

The Ministry of Agriculture and Lands, through the Integrated Land Management Bureau Coast Region (the "ILMB") placed additional funds into the EBM WG sub-trust of the Coast Sustainability Trust (the "CST") by way of Unconditional Grants in order to further support the implementation of the WG workplan. The sub-trust is a Donor Directed Trust managed by the Coast Sustainability Trust Trustee.

The total amount of funds in the EBM WG Trust as of March 31, 2007 was as per the following:

Status of the EBMWG subtrust - Summary[1]

	Book Value	Market Value
EBMWG Sub-trust market value as of above date		**$1,375,644**
Revenues		
Contribution from the Province of BC	$1,620,000	
Net roll in from EBMLUP account	$70,488	
Net roll in from ESAMDAP account	$14,927	
Subtotal of contributed funds	$1,705,416	
Interest income earned and accrued to date	$30,550	
Total Contributions plus interest income to date	$1,735,965	
Expenses		
Trustee fees and expenses paid to date	$24,723	
Project related expenses disbursed to date	$335,618	
Project related expenses contracted but not yet disbursed	$362,937	$362,937
Total Contractual obligations	$723,278	
Contractual obligations not yet disbursed		$362,937
Balance of funds available for new contracts	**$1,012,687**	**$1,012,707**

Note: Difference between Book Value and Market Value
is unaccrued increase in value of investments

It should be noted that $200,000 of the Province of BC funding was provided by the Ministry of Forests and Range.

Workplan

The FY07/08 workplan (Appendix 1) was a transitional workplan from the high level workplan initially prepared for the period of 2006 to 2009 to a more streamlined version guided by the Definition of Full Implementation of EBM. This definition was approved by the Joint LRF in August of 2007. The streamlined workplan was presented to the LRF in March 2008 on the basis of the LRF budget and program priority decisions (Feb 2008) which

---

[1] Note: not all of the funds indicated below had arrived in the trust by March 31st 2008. Some were still being processed.

set the EBM WG budget ceiling at $1.7 million. The workplan was finally approved in May 2008. The streamlined workplan and budget is summarized in Appendix 1 along with the implementation status of projects as of March 2008.

The workplan contains 6 program areas:
1. Adaptive Management
2. Human Well Being
3. Ecological Integrity
4. Integration
5. Inventory and Decision Support
6. Administration

Streamlining of the workplan resulted in both a reduction and integration of WG projects. Members focused on how the project results will contribute to full implementation in an effort to avoid project investments that are not directly related to full implementation. Projects are either planned or being implemented in all of the component areas of the Definition of Full Implementation to provide the Joint Land and Resource Forum with background information to support decisions in these areas (see Appendix 2).

Accomplishments in 2007-2008

The WG accomplished the following in the 2007/08 fiscal year.
1. Streamlined the workplan in keeping with the Definition of Full Implementation and a budget ceiling of 1.7 million.
2. Completion of 5 projects. The products of the completed projects are outlined in the table below:

Project	Deliverable
HW Indicators	Review of indicators of Human Wellbeing in schedules C and G of the G 2 G agreements and recommendations for changes.
Land Use plan summary Adaptive management workshop	Land Use Plan Summary Workshop summary from implementation partners workshop on Adaptive Management Workshop proceedings on experts workshop on design of the Adaptive Management Framework.
Planning Unit Boundaries	Rationalization of watershed boundaries for planning purposes.
Old Growth Indicators	Old growth workshop consensus wording and updated paper on old growth representation

3. Detailed planning, contractor selection and initiation of 9 projects as outlined in the table below.

Project	Deliverable
HW Baseline	Human wellbeing baseline status. Contributes to AM Framework and addresses Full Implementation requirement to develop the capacity to monitor Human Wellbeing within the EBM implementation area.
HW Strategies Inventory	Inventory of existing and active strategies to achieve improvements human wellbeing in the EBM area and identification of the barriers to the success of those

	strategies. This is background work to the regional policies and initiatives aspects of Full Implementation.
Adaptive Management Framework Development	Adaptive Management Framework as required under Full Implementation.
Old Growth	Expert advice on specific questions with respect to old growth conservation including: deciduous targets, use of Site Series Surrogates vs. Terrestrial Ecosystem Mapping, in-stand retention, and old growth definition and restoration. Contributes background information to implementation of potential revisions to the Land Use Objectives.
Ecological Baseline	Ecological baseline and current condition analysis to support ongoing monitoring of ecological integrity. Contributes to AM Framework capacity to monitor ecological integrity on an on-going basis.
Focal Species Habitat Inventory	Improvements to focal species habitat inventory needed to support implementation of the Land Use Objectives.
Focal Species Risk Assessment	Focal species domain expert advice on risk to focal species associated with alternative scenarios of old growth reserves. Contributes to implementation of the LUOs.
Operational Costs and Benefits	Assessment of costs and benefits of EBM implementation at the operational scale. Contributes background information to potential revisions to the LUOs and to Full Implementation generally.
Old Growth reserve co-location	Methodology and scenarios for co-locating ecosystem representation and focal species habitat requirements while simultaneously minimizing impacts on timber supply. Supports implementation of the land use objectives.

APPENDIX 1

WORKPLAN

EBMWG SUMMARY PROJECT BUDGET AND STATUS

March 2008

Program Area / Element	No.	Project description	Budget	Status
ADAPTIVE MANAGEMENT PROGRAM				
Framework Development	AM01	Land Use Planning Summary. Summarize the goals, objectives, indicators, and targets in relevant land-use planning documents and decisions. This is a key prerequisite to the AM framework but will have multiple uses.	15000	Complete
	AM02(a)	Adaptive Management Framework design. Workshops with experts and implementation partners to develop AM design.	25000	Complete
	AM02(b)	Adaptive Management Framework development. Consulting team working in consultation with implementation partners to develop the framework.	100000	Underway
Framework Implementation	AM 03	Undertake Human Wellbeing case study to demonstrate how the AMF can be applied in a human wellbeing context.	50000	Planning
	AM04	Set up experimental watersheds in keeping with AMF and undertake pilot AM planning to demonstrate how the framework operates in the ecological integrity context.	120000	Planning
		SUBTOTAL	310000	
HUMAN WELLBEING PROGRAM				
Indicators, baseline and targets	HW01	Define Socio-economic Indicators for Schedule C/G. Consultant review of C and G indicators and recommendations for modification to more comprehensively monitor Human Wellbeing.	35000	Complete
	HW02(a)	Establish HWB baseline. Consulting team develops HWB baseline using indicators drawn from schedules C and G and HW01. Team also recommends approach to target setting.	90000	Underway
	HW02(b)	Recommend HWB targets. Consulting team working in consultation with community representatives to recommend potential HWB targets given baseline conditions and existing strategies (output from HW03).	80000	Planning
Strategies	HW03(a)	Inventory regional/local HWB initiatives. Consulting team interviews range of economic development actors on the coast to identify existing economic development strategies aimed at improving human wellbeing to identify barriers, gaps and policy issues.	30000	Underway
	HW03(b)	Develop options for regional policies and initiatives to address barriers, gaps and policy issues identified in HW03(a)	60000	Planning
		SUBTOTAL	295000	
ECOLOGICAL INTEGRITY PROGRAM				
OG Thresholds	EI01(a)	Refine Old Growth Indicators. Hold scientific workshop to address old growth indicators and thresholds. Project complete.	15000	Complete
	EI01(b)	Refine Old Growth Indicators. Undertake background papers and hold scientific workshop to develop advice regarding accounting for old growth in managed stands and the definition of old growth as it relates to restoration.	25000	Underway
Focal Species	EI02(a/b)	Focal/Fine Filter Species habitat mapping. Work with MoE to develop improved focal species habitat inventories.	150000	Underway
	EI02(c)	Focal species risk assessment. Retain focal species experts to provide analysis of the implications of various scenarios (from DS04) at subregional and forest management unit scales on focal/fine filter species habitat supply and to identify limitations of data used in scenarios.	90000	Underway
Baseline	EI03	a. Establish Ecological baseline and b. Inventory of existing analysis and inventory for the central and north coast.	50000	Underway
EBM impl for Pas	EI04	Make recommendations on best practices for the management of protected areas and biodiversity areas under EBM. This will include best practices within PAs as well as best practices for the management of the network as a whole. This study should link to AM and monitoring over time.	10000	Planning
Rare Ecosystems	EI05	Refine the criteria and determine, within our plan area, what are the red and blue-listed ecosystems and species of concern? Considerations include: What is the scale at which you determine rarity - locally common/globally rare and vice versa.	7500	Planning

		SUBTOTAL	**347500**	
DECISION SUPPORT PROGRAM				
Data warehouse	DS01	Develop tools and capacity to enhance data access and management, building on previous work related to data sharing and data management protocols.	**20000**	**Planning**
Planning Units	DS02	Hold a one day workshop to develop recommendations on consistent approach to defining watershed and planning units. Should support the ability to do a "summing-up" across watersheds. Project Complete.	**5000**	**Complete**
EBM Operational Costs/Benefits	DS03	Develop reasoned estimates of the range of potential operational level costs/benefits, economic and ecological, of implementing EBM in the coastal forest sector. Application of initial land use objectives and more comprehensive objectives vis-à-vis the EBM Handbook will be assessed.	**50000**	**Underway**
DSP Support and Integration	DS04(a)	Develop analytical tools and methodologies to support efficient location of reserves given multiple ecological and socioeconomic objectives. Pilot test the approaches to demonstrate how well the outputs correspond with actual conditions.	**125000**	**Underway**
	DS04(b)	Undertake subregional analysis to support DSP integration.	**40000**	**Planning**
	DS05 a/b	Develop a clear description of the EBM decision making system including how flexibility provisions are intended to work then identify options for strengthening the system with decision support tools and procedures.	**50000**	**Planning**
		SUBTOTAL	**290000**	
Project Integration, Synthesis, Packaging and Delivery				
Peer Review	PI01	Provide additional peer review of project results over and above that which is undertaken within projects.	**7500**	**Planning**
Summarize Project Results	PI02	Develop user friendly summaries of project results and associated applications.	**7500**	**Planning**
Project Integration	PI03	Document how project outputs fit together and develop associated presentations materials.	**10000**	**Planning**
Presentations and Workshops	PI04	Deliver presentations of integrated project outputs to the LRF, PIMCs, and other specified audiences/communities through workshops and meetings.	**20000**	**Planning**
Website Completion	PI05	Integrate final project results into website and develop user friendly interfaces.	**5000**	**Planning**
		SUBTOTAL	**50000**	
OPERATIONS				
Operations	AD01	EBMWG director, FN Co-chair (start up to completion)	**406,900**	
		TOTAL	**1699400**	

APPENDIX 2

Linkages to definition of
Full Implementation of EBM

Draft EBM Implementation Table

Definition of Full Implementation	Expected LRF Decisions/Rec	EBM WG Info. Products

Governance
• government-to-government collaborative
• structures and processes for ongoing collaborative and/or consultative stakeholder involvement
	• Decision process for ongoing Implementation including:
	  ➢ addressing flexibility requirements
	  ➢ Dealing with new issues, opportunities, sectors
	  ➢ Process for ongoing stakeholder collaboration and consultation
	• Confirmation/adaptation of institutional arrangements
		• DS 05 – decision support tools, tools for addressing conflicts amongst targets
		• Data warehousing and access
		• Watershed boundaries
		• Costs and Benefits of EBM Implementation at operational scale

Human Wellbeing • CIII management and funding mechanisms in place; • Coast Sustainability Trust renewed; • regional economic development policies and initiatives; • capacity building and management/technical training programs	• Regional strategies and policies that will improve HWB	• Inventory of existing strategies and related barriers • Options for policy development and strategies to overcome barriers • Baseline and targets study

Ecological Integrity
• Land use zones
• Landscape reserves
• Land use objectives
	• New legal objectives reflecting:
	  ➢ DSPs
	  ➢ Regional risk allocation (map of risk zones)
	  ➢ Reserves
		• Focal species inventory and risk analysis
		• Options and methods for Co-location of reserves
		• Costs and Benefits of EBM Implementation at operational scale
		• Ecological baseline Old Growth Targets and Implementation methods

Adaptive Management • Monitoring and evaluation system • Decision support system • Ind. Research and data mgt. system	• Adoption of AM Framework	• AM Framework demonstrated and tested • Ecological Baseline • Human Wellbeing Baseline
Flexibility • Strategic plan flexibility • Operational flexibility • Decision variance	• Addressed under governance	• Decision Support Tools for dealing with conflicts between objectives and targets.