



ECOSYSTEM CREDIT ACCOUNTING

BOBBY COCHRAN




What is the Partnership Working For?

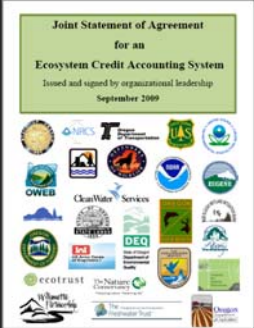
- Strategic investment in things that matter.
- A fair and transparent way for people to buy and sell the benefits of restoration.
- Rules and tools that make restoring things that matter a practical business decision for private land managers.



Grey Infrastructure	Green Infrastructure
Cooling Towers	Restore 35 miles of streams
Compliance Achieved Cost - A lot	Compliance Achieved Cost - A lot Less
Ecological Value	Ecological Value
Not Much	HUGE
	



Joint Statement of Agreement for an Ecosystem Credit Accounting System
Issued and signed by organizational leadership
September 2009



Status:
Version 1.0 of the Crediting Protocol is approved for use in Oregon's Willamette Basin



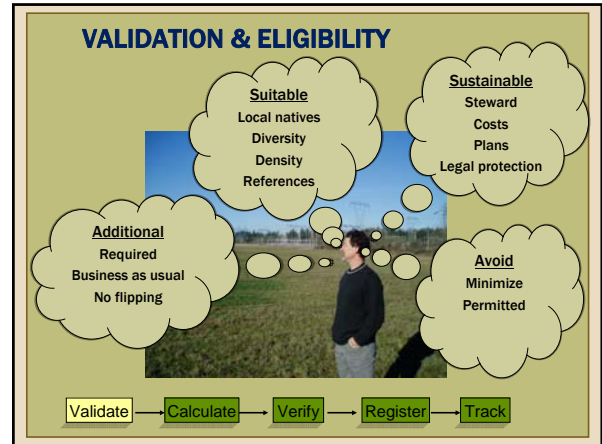
PROJECT SCOPE

Version 1 credit types

- Wetland (functional acre)
- Salmonid habitat (functional linear foot)
- Upland prairie habitat (functional acre)
- Water quality: Temperature (kcal/day)

Near-term priorities

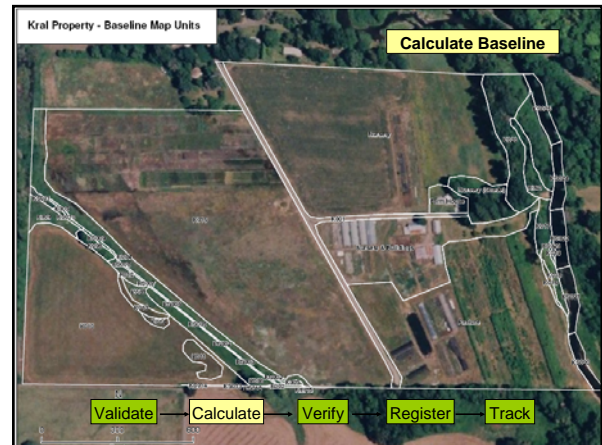
- Water quality: Nitrogen, Phosphorus, Sediment
- Water quantity: Flow
- Streams & Forests
- Sagebrush, Oak, and Bottomland Hardwoods



CALCULATION: DATA COLLECTION

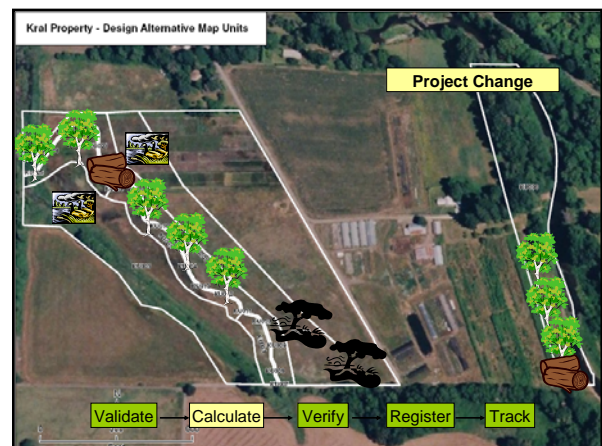
- Office Work: define project boundaries, determine map units, calculate uplift, apply ratios, assign credits, develop estimates
- Field Work: confirm map units, collect field data: location habitat type, performance indicators

Validate → Calculate → Verify → Register → Track



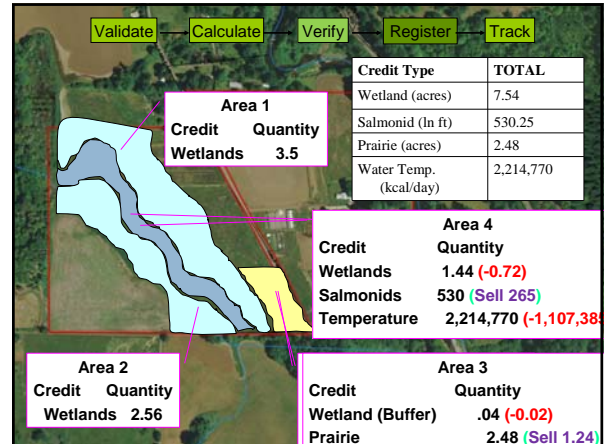
Baseline Ledger

Credit Type	Baseline
Wetlands (Functional acres)	1.07
Salmonid Habitat (Functional In ft)	723
Upland Prairie (Functional acres)	0.5
Temperature (kcal/day)	8,015,377



Calculating Credits

Credit Type	Baseline	Post-restoration	Functional Gain
Wetlands (Functional acres)	1.07	11.12	10.05
Salmonid Habitat (Functional ln ft)	723	1,429	707
Upland Prairie (Functional acres)	0.5	3.75	3.25
Temperature (kcal/day)	8,015,377	10,968,404	2,953,027



VERIFICATION

- Office Audit: review of documents, calculations, permits and land protections.
- Field: review map unit boundaries, spot check data sheets.
- Agency Certification

Validate → Calculate → Verify → Register → Track

Registry

Overall Purpose: To track the custody of Ecosystem Service Credits over time

markit Welcome to the Markit Ecosystem Registry - Oregon Region

PROJECT AND ISSUANCE DETAILS

Project ID: 00000001 Project Name: Salem Creek Inst. Site

Project Developer: MARKIT WILLAMETTE Validator: MARKIT WILLAMETTE

Regulator Tracking #: WILLAMETTE0001243514 Other Tracking #:

Land Manager: Land Protection Institution Member

Start Date: 01/01/2009 End Date: 12/31/2019

Approval Date: 01/01/2009

Site Address: 500 Salem Creek Rd Oregon 97006 GPS Coordinates: 45.566667, -122.966667

Willamette Partnership Ecosystem Crediting Platform

Project Design: Scenarios

Estimated credits for this scenario: 37

Design Scenario 2: Map-Unit Credit Estimates

Category	Wetlands	Temperature	Salmonid Habitat	Prairie
Polygon A: Credit Estimate	2	4	4	0
Polygon B: Credit Estimate	2	1	0	1
Polygon C: Credit Estimate	6	18	5	0

What Now

- Ecosystem processes shaping water and habitat quality and quantity are local.
- The institutional arrangements people use to manage and regulate water and habitat are local.
- Unique markets need infrastructure that balances the realities of local management with the need for credibility, and efficiency
- Unique local markets have common infrastructure needs that can be shared

