

Operating water quality programs in Oregon

Some case examples



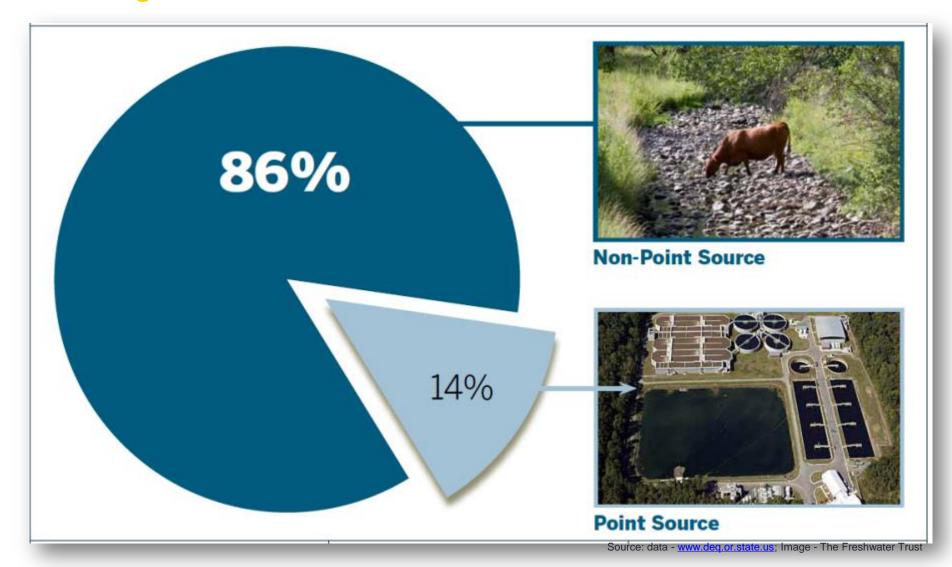






Restoration for Compliance

Investing how Mother Nature would



Tualatin River, Oregon

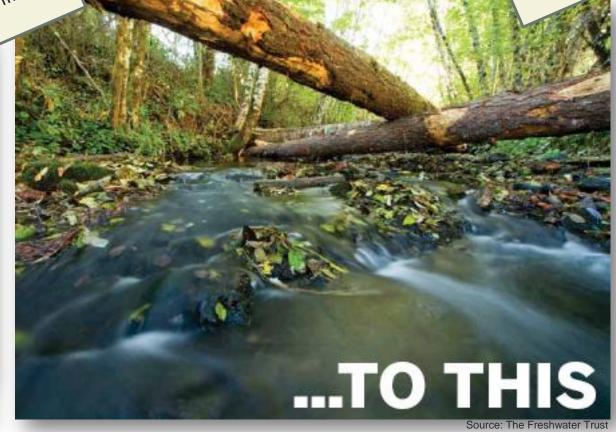
Restoration for compliance, converting...

Cooling Towers

\$60-\$120 million 35 miles of restoration Additional instream flow

\$6 million





Summer, 2004



Summer, 2007

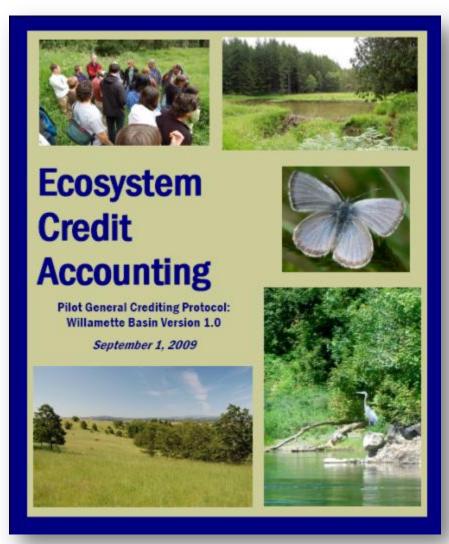


Summer, 2010



Crediting Protocol

Standards, Metrics, and Process



Credit types

Wetland

Salmonid habitat

Upland prairie habitat

Water temperature

Water nutrients

Oak habitat

Coming soon

Floodplain habitat
Sagebrush habitat
Benefits of flow



Rogue River, Oregon

With demand, infrastructure, and risk

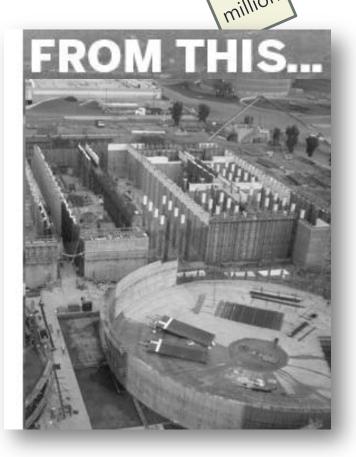
>\$20 million

Cooling Towers

Holding Pond

30+ miles of restoration







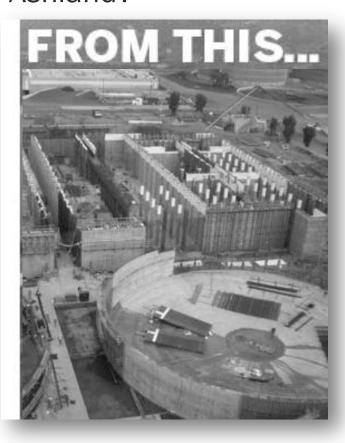


More water quality trading activity in the NW

Oregon

<u>ldaho</u>

Eugene-Springfield Port of St. Helens Ashland? **Boise River cities**







Hurdles have been cleared

Ecosystem Payments & Markets

- CLEAR DEMAND: Utilities are investing, financing is available.
- CLEAR PATH: Templates and capacities are available for agency policies, program design, and operation
- CLEAR RISK: There are third parties willing to finance and deliver compliance-grade projects





What's our likely reality?

Ecosystem Payments & Markets

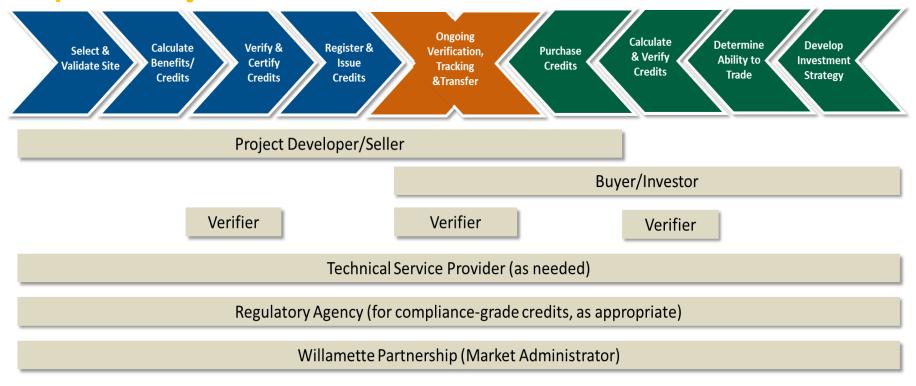
- Markets are a tool: Markets create a demand for clear goals, sound science, and accountability. They won't solve the world's problems, but their lessons might.
- Environmental markets depend on law: Good rules and engagement are essential
- Volume thin and local: It will continue to be hard to scale quickly



Credit Issuance Process

Validation through registration

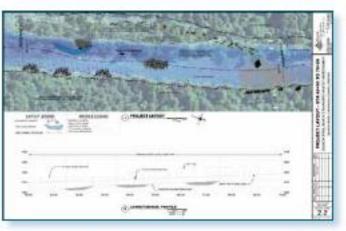
Steps for buyers and sellers:





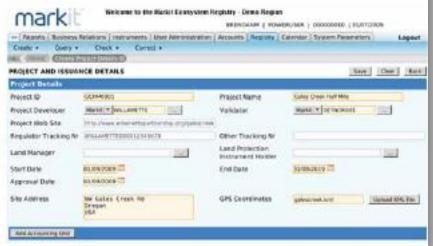
Verification















Verification

- Goal: Protocols followed, Actions complete,
 Documentation in place, Estimates reasonable +/- 15%
- Activities: Review docs, review map unit boundaries, spot check data sheets.





Verification Cycle

- Year 1, Year 2-4, Change verifiers, Repeat
- Agency certification



Project Background



July 20,2010



Project Background







Overview

- Verifier Engagement
- Documentation review
- Desk audit of credit calculation
- Site visit
- Verification reports
- Certification of credits



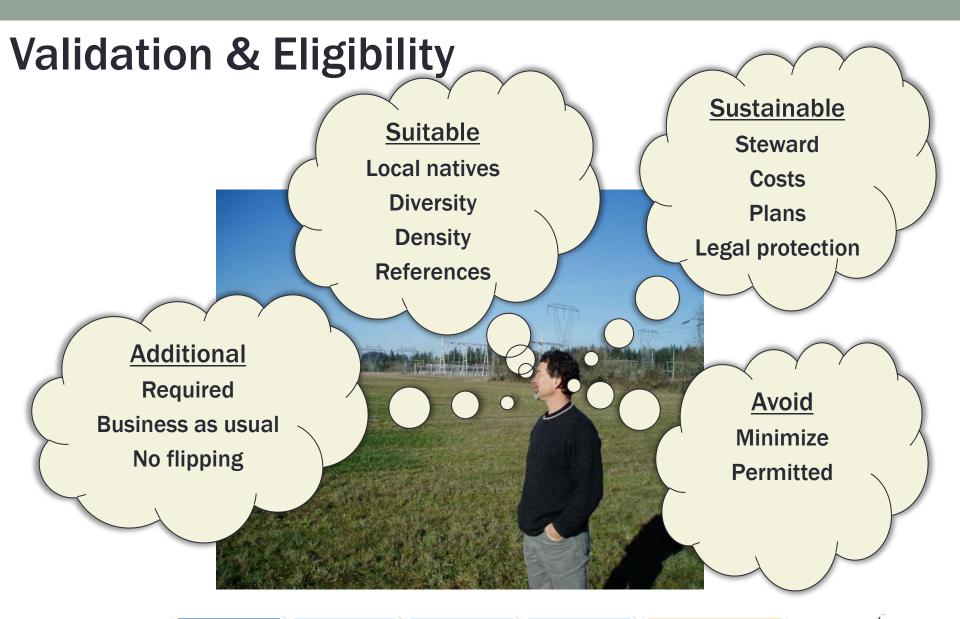
Verifier Engagement

- Conflict of Interest Form
- Verifier Services Contract
- Scheduling/coordination

Resulting protocol document changes and updates:

Verifier services agreement template







Document Review

- Validation Checklist
 - Proof of Ownership
 - Project Map
 - Project Design
- Validation Notice (& letter)
- Proof of Rights to Credits
- As-built project design
- Monitoring and stewardship plan



- ☑ Credit calculation
- ☑ Monitoring plan
- Additional comments



- ☑ Certification
- ☑ Registration on Markit

Resulting protocol document changes and updates:

 Monitoring and stewardship plan template



Registration & Tracking

Secure, transparent & publicly accessible

Welcome to the Markit Ecosystem Registry - Demo Region BRENDANM POWERUSER 000000010 31/07/2009			
Reports Business F	Relations Instruments User Administration	Accounts Registry	Calendar System Parameters Logout
Create ▼ Query ▼ Check ▼ Correct ▼			
Home Create Project Details ®			
PROJECT AND ISSUANCE DETAILS Save Clear Back			
Project Details			
Project ID	GCHM0001	Project Name	Gales Creek Half Mile
Project Developer	Markit ▼ WILLAMETTE	Validator	Markit ▼ DETNOR001
Project Web Site	http://www.willamettepartnership.org/galescreek]	
Regulator Tracking Nr	WILLAMETTE000012345678	Other Tracking Nr	
Land Manager		Land Protection Instrument Holder	
Start Date	01/09/2009	End Date	31/08/2019
Approval Date	01/09/2009		
Site Address	NW Gales Creek Rd Oregon USA	GPS Coordinates	galescreek.kml Upload KML File
Add Accounting Unit			





Thurston County Prairie Habitat Conservation Plan



Three new endangered species, and 13 more in 5 years

Developed protocols guiding rules, processes, and framework for prairie permitting and application of crediting methodology.

County, USFWS, NRCS, and others using to target conservation dollars

Very similar approach used for water quality and habitat crediting

Photo credit: Rod









Opening miles of stream, saving transportation millions

Developed protocols guiding rules, processes, and framework for fish passage permitting and application of crediting methodology.

OR DOT, County public works, OR Watershed Enhancement Board, and others using to target conservation dollars

Very similar approach used for water quality and habitat crediting

The Nature

Protecting nature. Preserving life.



Klamath Tracking & Accounting Program

What did I get for all that \$?...

Nutrient Reductions & Tracking TMDL progress







Ecosystem Markets

Willamette Ecosysic... Fartnership Catalyzing Investment in Conservation



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