

# Nested Financing

{ Local Options for Environmental Restoration

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## Reason for the project

- Increased expectation for local protection
- Resistance to new regulation

Our intent is to enable a conversation about funding voluntary protection and restoration efforts that compliment or offer an alternative to local regulation.



The City of Soggy participates in the National Flood Insurance Program (NFIP). ESA section 7 Consultation between FEMA and NMFS will result in new minimum standards for NFIP communities. In anticipation of new standards the city wants to add a restoration component to their floodplain management program.

## Scenario 1



**Jurisdiction:**

City of Soggy

**Additional participants:**

Centennial Watershed Council

**Population parcelization and land value:**

Population 10,000

Total assessed value for tax lots in the city \$1.4 billion

Transient lodging revenue \$3 million/year

<b>Project and Management</b>	<b>Cost</b>	
<b>Work plan and grant application</b>	100 hours @ \$60/hour = \$6.0 K	
<b>Program management including monitoring and maintenance</b>	\$8.0 K@ 7 years = 56K	
<b>Dike removal</b>	\$60K	
<b>Recovery of repetitive loss property</b>	Removal of structures = \$50.0K 1 acre riparian planting = \$10.6 K	
<b>Wetland restoration</b> Easement Restoration	\$10 K 3 acres @ \$10.6 K per acre = \$32 K	
<b>Culvert replacement</b>	\$100K	
	<b>Total</b>	<b>\$325K</b>

	Itemized Costs by year	Total costs by year
Year 1	Work plan and grant application	\$6K
Year 2	\$60K (Dike removal); \$8K (Project management)	\$68K
Year 3	\$ 50K (Structure removal on SRL property); \$8K (Project management)	\$58K
Year 4	\$ 10K (Riparian planting on SRL property) \$10K (Purchase easement); \$8K (Project management)	\$28K
Year 5	\$32K (wetland restoration); \$8K (Project management including grant application to prepare for culvert replacement )	\$40K
Year 6	\$100 Culvert replacement; \$8K (Project management)	\$108K
Year 7	\$8K (Project management)	\$8K
Year 8	\$8K (Project management)	\$8K

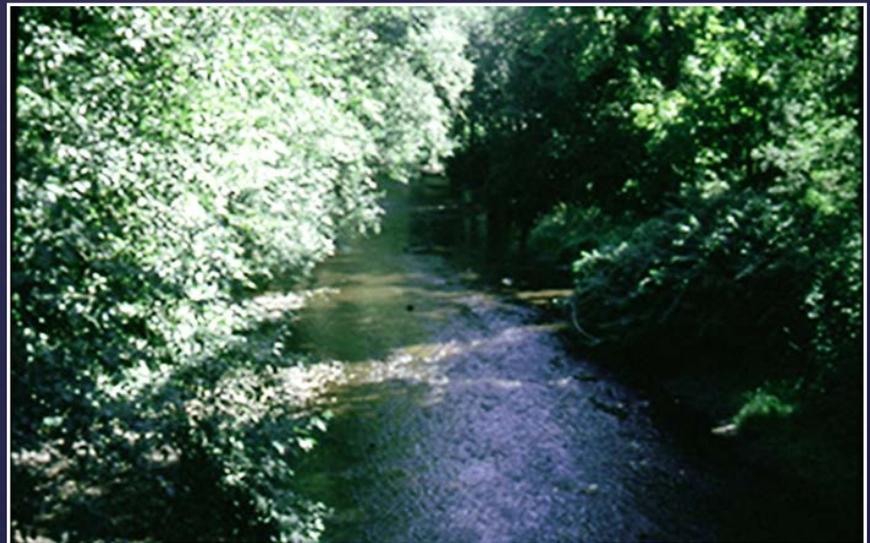
**Wishful Watershed** is largely in agricultural use, with some timber land in the upper reaches. Urban and rural development exists in two small cities and unincorporated portions of the county.

The Wishful River is on the state's 303d list.

The river and its tributaries provides habitat for ESA listed salmon.

75% of riparian areas are in low functioning condition.

## Scenario 2



## Jurisdiction:

Oxbow County, City of Pool and the City of Riffle,

## Additional participants:

The Wishful River Watershed Council

At-Your-Service Council of Governments

Oxbow County Soil & Water Conservation District

## Population parcelization and land value:

8000 residence

6000 tax lots zoned for urban or rural development

Total assessed value for lots zoned for urban or rural development is \$1 billion

<b>Code amendments</b>	\$10K	
<b>Riparian plantings, maintenance and rent</b>	10 acres @ \$10.6K per acre = \$106K	
<b>Complimentary instream and floodplain restoration</b>	5000' @ \$2,800 per 100' = \$140K	
<b>Fencing</b>	2000' @ \$10 per foot =20K	
<b>Project management and overhead</b>	\$30k per year for 5 years = 150K	
	<b>Total cost</b>	<b>\$426,000</b>

	Itemized Costs by year	Total costs by year
Year 1	\$10K (code amendment); \$30 (project management, initiation /planning)	\$40k
Year 2	\$67K (25% restoration and fencing); \$30 (project management, implementation)	\$97K
Year 3	\$67K (25% restoration and fencing); \$30 (project management, implementation )	\$97K
Year 4	\$67K (25% restoration and fencing); \$30 (project management, implementation)	\$97K
Year 5	\$67K (25% restoration and fencing); \$30 (project management, implementation )	\$97K