

# \* TMDL Implementation Plans

North Fork Coeur d'Alene River WAG

November 20, 2014



\*Water quality road map

- \*Sediment TMDLs, 2002
- \*Metals TMDLs (East Fork Eagle Cr), 2002
- \*Temperature TMDLs, 2014
- \*TMDL implementation successful so far
- \*Decades of restoration, especially by USFS
- \*Nearly all mine and mill sites cleaned up
- \*Success stories and delistings, but more to do
- \*Limited resources and funding

\*TMDLs



\* Needs

- \*TMDLs are the budget or prescription, how much sediment or temperature needs to be reduced.
- \*Don't include many specifics for who, what, where, when.

**\*Water quality road map**

- \* Provides a framework for local stakeholders to use to reach the goals established in the TMDL.
- \* Document guided by an approved TMDL
- \* Details actions needed to achieve load reductions
- \* Follows TMDL development (~18 months)
- \* WAG responsibilities
- \* Some states require implementation plans by law
- \* Idaho includes implementation plans in guidance

\* **Refined**

- \*List of needed actions
- \*Timeline for implementing the plan
- \*List of who will be responsible
- \*Explanation for how progress on actions will be tracked
- \*Monitoring or modeling plan
- \*Milestones for measuring progress
- \*Description of how data will be evaluated and used to recommend revisions to the TMDL

\*Includes

- \* Plans are developed by a variety of stakeholders including government agencies, local citizens, and the [watershed advisory group \(WAG\)](#) for the area.
- \* Designated government agencies and the WAG are generally the driving force behind the plan and are responsible for identifying appropriate implementation measures.
- \* DEQ serves as the repository for implementation plans and often coordinates, or assists in, developing the plan, writing the document, and prioritizing projects for implementation.

\* Who

- \* Idaho Department of Lands
  - \* Timber harvest, oil and gas exploration and development, and mining issues
- \* Idaho Soil and Water Conservation Commission
  - \* Grazing and agriculture issues
- \* Idaho Transportation Department
  - \* Public road issues
- \* Idaho State Department of Agriculture
  - \* Aquaculture issues
- \* DEQ - all other issues
- \* Federal agencies through MOUs

## \* Designated Management Agencies

- \*Somewhat dependent on the landowner.
- \*Projects on federal lands are typically funded through the management agency.
- \*Projects on private or state lands may be funded through a variety of mechanisms, including [§319 subgrants](#) administered by DEQ.
  - \*These are grants established under Section 319 of the Clean Water Act to support nonpoint source pollution management activities.

\*Funding

\*Coeur d'Alene Lake Subbasin

\*[Cougar, Kidd, Latour, Mica, Wolf Lodge \(2002\)](#)

\*Clark Fork

\*Clark Fork/Pend Oreille (2007)

\*Kootenai - Moyie River

\*[Boundary, Deep, Cow \(draft 2005\)](#)

\*Panhandle Region

\* **St. Joe/St. Maries**

\* [St. Maries Ag \(2003\)](#)

\* **Priest River**

\* Lower West Branch Priest River (draft 2004)

\* **Pend Oreille Lake**

\* [Cocolalla Lake, Cocolalla, Hoodoo \(2004\)](#)

\* [Pack River \(2006\)](#)

\* [Pend Oreille Lake Nearshore \(2004\)](#)

\* **Panhandle Region**

# Coeur d'Alene Lake Subbasin TMDL Implementation Plan

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Table 1. Coeur d'Alene Lake and River TMDL Implementation plan Project List

Agency	Stream	Project Description	Location	Pollutant	% complete
IDL	Cougar Creek	Seed & mulch road fill and cut at stream crossing	Bunn road & Kindred trail	S	
IDL	Cougar Creek	Seed & mulch road fill and cut on switchback	log road U of I property	S	
IDL	Cougar Creek	Seed & mulch road cut	log road on State at Miller Ck. Road	S	
IDL	Cougar Creek	Seed & mulch road cut	log road above culvert w/fish ladder	S	
IDL	Cougar Creek	Investigate 4 culverts and mitigate as needed	IDL to provide	S	
IDL	Cougar Creek	Armor 3 drainage ditch gullies with rock/seed&mulch	IDL to provide	S	
IDL	Cougar Creek	Field investigation of 2 road problem combinations	IDL to provide	S	
IDL	Cougar Creek	Field investigation of 3 general problems	IDL to provide	S	
IDL	Cougar Creek	Seed & mulch to stabilize 2 cut & fill slope problems	IDL to provide	S	
IDL	Cougar Creek	Restrict or redirect use of off road vehicles	2 ORV erosion damage areas	S	
IDL	Cougar Creek	Re-establish canopy by planting to provide shade	11-12 miles (IDL to provide)	S,T	
IDL	Cougar Creek	Stabilize 2 miles of road with greater than 10% grade	2 miles (IDL to provide)	S	
IDL	Cougar Creek	Inventory additional road miles	Watershed	S	
IDL	Mica Creek	Investigate 3 culverts and mitigate as needed	IDL to provide	S	
IDL	Mica Creek	Seed & mulch / re-direct water flow of 3 washouts	IDL to provide	S	
IDL	Mica Creek	Seed & mulch / rock armor 2 ditch/gully problems	IDL to provide	S	
IDL	Mica Creek	Field investigation of "perched" landing	IDL to provide	S,Unknown	
IDL	Mica Creek	Field investigation of 2 general problems	IDL to provide	S	
IDL	Mica Creek	Re-establish canopy by planting to provide shade	10-11 miles (IDL to provide)	S,T	
IDL	Mica Creek	Stabilize road through surfacing/drainage/seed & mulch	2 miles (IDL to provide)	S	
IDL	Mica Creek	Inventory additional road miles	Watershed	S	
IDL	Kidd Creek	Re-establish canopy by planting to provide shade	1.5-2 miles (IDL to provide)	S,T	
IDL	Kidd Creek	Inventory additional road miles	Watershed	S	
IDL	Wolf Lodge Creek	Field investigation of yarding on steep slopes	IDL to provide	S	
IDL	Wolf Lodge Creek	Field investigation of 2 management problems	IDL to provide	S	
IDL	Wolf Lodge Creek	Seed & mulch to stabilize 1 mass failure	IDL to provide	S	
IDL	Wolf Lodge Creek	Surface/seed & mulch/ fix drainage or abandon road	20 miles (IDL to provide)	S	
IDL	Wolf Lodge Creek	Remove 53 stream crossings and upgrade 2 crossings	IDL to provide	S	
IDL	Wolf Lodge Creek	Re-establish canopy by planting to provide shade	5-7 miles (IDL to provide)	S	
IDL	Latour Creek	Investigate 4 culvert problems and mitigate as needed	IDL to provide	S	
IDL	Latour Creek	Re-establish canopy by planting to provide shade	4 miles (IDL to provide)	S,T	
IDL	Latour Creek	Inventory additional road miles	Watershed	S	

POLLUTANTS: S = SEDIMENT, T = TEMPERATURE

# Pack River Watershed Management Plan and TMDL Implementation Plan

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**Table II. Pack River Watershed Coordination and Implementation Projects**

Agency / Organization <sup>3</sup>	Project Description	Anticipated Start-up Date	Estimated Start-up or Annual Cost
<b>COORDINATION</b>			
IDEQ	Recruit and coordinate with Pack River representatives to the Pend Oreille Watershed Advisory Group to ensure completion of the temperature TMDL for the upper Pack River tributaries.	2006-07	In-kind
IDEQ	If 2006 monitoring identifies nutrients or other pollutants in addition to sediment, complete TMDLs.	2007	In-kind
IDEQ	Review implementation projects on a 5-year cycle to determine progress toward TMDL targets and need for additional TMDLs.	2009, 2014, & every 5 years	In-kind
IDEQ	Work with federal and state agencies, county and cities to maintain or improve enforcement of existing regulations, especially IDWR and COE regarding in-stream work permits	On-going	In-kind
DMA partners, PRWC, BSWCD, USFS, USFWS, TSWQC	Seek funding for project implementation, monitoring and education projects.	On-going	In-kind
IDEQ, TSWQC, Bonner County	Coordinate with agencies regarding consistency of existing setback standards.	On-going	In-kind
IDL	Establish a committee of county, state & federal agencies, forest industries and private landowners to meet semi-annually to coordinate harvesting and logging transportation on a sub-watershed basis, share data for watershed-wide GIS database, research and recommend appropriate percentage for maximum open/young forest in sub-watersheds, and discuss opportunities for improving forest resource base. (Through implementation of CWE.)	2006	In-kind
IDFG +PRWC	Encourage coordination between county road department and land managers on issue of beaver dam removal and removal techniques.	On-going	\$500
<b>MONITORING/DATA MANAGEMENT</b>			
IDEQ, EPA	Evaluate existing BURP monitoring data and secure resources for additional nutrient monitoring to investigate nutrient contributions of tributaries. Determine if nutrient or other TMDLs are necessary for Pack R watershed.	2006	\$30,000

<sup>3</sup> First entity shown is lead agency for project; other agencies/groups to assist.

## \*Agriculture

- \* *North Fork of the Coeur d'Alene River Agricultural TMDL Implementation Plan - draft 2005 (ISWCC and Kootenai-Shoshone SWCD)*

# \*NECDA Components

## \*Recreation

- \* *North Fork Coeur d'Alene River Cooperative Recreation Plan, 2011 (WAG)*
- \* *River Corridor Management Plan, 2012 (USFS)*
- \* Respect the River!

\* **NFCDA Components**

- \* Beaver Creek Watershed Assessment
- \* USFS Moose Drool Project
- \* USFS Beaver Creek Project
- \* USFS Bottom Canyon Project
- \* 2007 WPN Reports
- \* Many smaller scale projects implemented and proposed

## \* **NFCDA Components**

- \* Beaver Creek Watershed Assessment
- \* USFS Moose Drool Project
- \* USFS Beaver Creek Project
- \* USFS Bottom Canyon Project
- \* 2007 WPN Reports
- \* Many smaller scale projects implemented and proposed

## \* **NFCDA Components**

# **Water Quality Improvement Project**

## ***Concept Form & Application for Assistance***

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**Project Sponsor/Landowner:**

**Contact Information**

Name:

Address:

Phone:

Email:

- concept form WAG  
previously developed

**Project Location:**

**Nearest Water Body:**

**Date:**

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**Brief Description of Problem *(Including pollutants of concern if possible)*:**

- \* Idaho Nonpoint Source Management Plan
- \* Best Management Practices (BMP) for Mining in Idaho Manual, 1992
- \* Catalog of Stormwater BMPs for Idaho Cities and Counties
- \* ITD BMP Manual
- \* Interagency MOUs

## \* Components

- \*USFS Forest Plan (1987 / Revision Pending)
- \*BLM Resource Management Plan (2007)
- \*Coeur d'Alene Lake Management Plan, 2009
- \*Spokane River Watershed Phosphorus Nonpoint Source Reduction Plan
  - \*Chapter 16, Upper Coeur d'Alene River Subbasin

## \*Components

- \*Local Wellhead and Drinking Water Protection Plan for the Central Shoshone County Water District
- \*Management Plan for the Westslope Cutthroat Trout in Idaho
- \*Bull Trout draft Recovery Plan

\*Components

- \*Should we prepare a TMDL Implementation Plan?
- \*When? How?
- \*Who is willing to participate?
- \*What will you bring to the table?
- \*What should it look like?

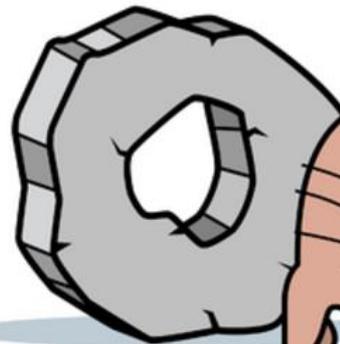
\*The Question

**REINVENT**



**ALL THE WHEELS**

**OR**



**NOT**



- \*WAG has authority and flexibility
- \*So...



\*Thoughts?