

## Section I: General Information

Project Title Upper Lolo Creek Sediment Reduction Project

### Project Sponsor Information

Sponsor Name Clark Fork Coalition

County Missoula

Website www.clarkfork.org

Tax Identification # 36-3428665

DUNS # 840737332

SAMs # 64MT2

Primary Contact Jed Whiteley

Signatory Karen Knudsen

Title Project Manager

Title Executive Director

Address 140 S 4th St W

Address 140 S 4th St W

City Missoula State Montana Zip Code 59807

City Missoula State Montana Zip Code 59807

Phone Number 406-531-0256

Phone Number 406-542-0539 ext 203

Fax Number \_\_\_\_\_

Fax Number \_\_\_\_\_

E-mail Address jed@clarkfork.org

E-mail Address karen@clarkfork.org

Signature \_\_\_\_\_

Signature \_\_\_\_\_

### Project Location

Watershed Name or HUC # Lolo Creek

TMDL Planning Area Upper Lolo Creek

(1) Waterbody Name from 2014 List of Impaired Waters Lolo Creek

(1) Probable Cause(s) of Impairment Sedimentation/ siltation

(2) Waterbody Name from 2014 List of Impaired Waters \_\_\_\_\_

(2) Probable Cause(s) of Impairment \_\_\_\_\_

(3) Waterbody Name from 2014 List of Impaired Waters \_\_\_\_\_

(3) Probable Cause(s) of Impairment \_\_\_\_\_

Activity 1 Name Road decommissioning

Latitude (1) 46 40' 10" N

Longitude (1) 114 31' 3" W

Activity 2 Name Culvert removal

Latitude (2) 46 40' 10"N

Longitude (2) 114 31' 32" W

Activity 3 Name \_\_\_\_\_

Latitude (3) \_\_\_\_\_

Longitude (3) \_\_\_\_\_

### Nonpoint Source (NPS) Information

Which WRP does the project implement? Lolo Creek

What is the WRP status? DEQ-Accepted

Does the project implement recommendations in a TMDL? Yes

Waterbody Type River/Stream

Functional Category Sediment Control

1st Pollution Category Silviculture (Road Construction/Maintenance)

Percent of Total (%) 100

2nd Pollution Category \_\_\_\_\_

Percent of Total (%) \_\_\_\_\_

3rd Pollution Category \_\_\_\_\_

Percent of Total (%) \_\_\_\_\_

4th Pollution Category \_\_\_\_\_

Percent of Total (%) \_\_\_\_\_

### Project Funding

319 Funds Requested	<input type="text" value="\$120,000.00"/>	Does the project sponsor have any open 319 contracts?	<input type="text" value="Yes"/>
Matching Funds		Project Title	<input type="text" value="Lost Horse Creek Stream"/>
State Cash Match	<input type="text" value="\$80,000.00"/>	DEQ Contract Number	<input type="text" value="213023"/>
Local Cash Match	<input type="text" value="\$15,000.00"/>	319 Award	<input type="text" value="\$105,000.00"/>
In-Kind Match	<input type="text"/>	Projected Closing Date	<input type="text" value="November 15, 2015"/>
Total Match	<input type="text" value="\$95,000.00"/>	Project Title	<input type="text"/>
Other Federal Funds	<input type="text" value="\$18,000.00"/>	DEQ Contract Number	<input type="text"/>
Total Project Budget	<input type="text" value="\$233,000.00"/>	319 Award	<input type="text"/>
Administrative Fee	<input type="text" value="\$12,000.00"/>	Projected Closing Date	<input type="text"/>

### Project Description

Methods: Please describe the specific activities of this project.

The Upper Lolo Sediment Reduction Project will focus on decommissioning forest roads and their associated culverts that are adding sediment to the areas streams. Decommissioning of roads will include up to 100% recontouring of topography, slash placement, and revegetation as needed. Sites where culverts are removed will be recontoured to match current stream geomorphology and large woody debris and boulders will be placed for grade control.

Objectives: Please describe the specific/measurable objectives that will ensure the achievement of the project goal(s).

Measurable objectives for the project include completing 100% recontouring of 12-14 miles of forest roads and the removal of at least 8 culverts, monitor stream cross-sections to access project effectiveness and conduct outreach to educate community members and government agencies about the project. It is the projects goal to measurably reduce sediment in the Upper Lower Creek TPA as well as opening up many miles of stream to fish for spawning and cold water refugia.

Overview: Please provide a brief summary of the proposed project.

In 2009 the Lolo National Forest acquired over 32 sections of forest lands in Upper Lolo Creek that were formerly under Plum Creek ownership through the Montana Legacy Project. Upper Lolo Creek is significantly impacted by sediment generated by forest roads and failing culverts and the Upper Lolo Sediment TIE sets goals of between 33 and 65% load reductions from forest roads. The Lolo National Forest has been very active in working on sediment issues in the Upper Lolo Creek basin and has decommissioned 64.89 miles of forest roads and removed 37 culverts to date. (Upper Lolo Sediment TIE, section 3-1) The Plum Creek lands created a checkboard pattern of land ownership in the Upper Lolo basin and until the Montana Legacy Project was finalized the Lolo National Forest was only able to carry out sediment reduction restoration on every other square mile of the area. This project is a continuation of that long term restoration effort and focuses on reclaiming excess forest roads and their associated culverts on the Legacy lands that add sediment to the Upper Lolo Creek system. Project boundaries encompass the upper watershed of Lolo Creek and include the following tributaries: East Fork Lolo Creek, Lost Park Creek, Lee Creek, West Fork Lolo Creek, Granite Creek and North Creek. All of these creeks are listed as critical Bull Trout areas in need of sediment reduction and fish barrier removal in the Forest Service's 2013 "Conservation Strategy for Bull Trout on USFS lands in Western Montana". All restoration activities for this project will take place on USFS property. On the ground activities pertinent to this grant request will start in 2015 and then continue over a 3 year timeline. All project activities are based on the recommendations stated in the Upper Lolo Sediment TMDL Implementation Evaluation (Section 2.0 TMDL-Recommended Activities) and the Lolo Creek Watershed Restoration Plan (Chapter 4- needs in Lolo Creek)

### A: Statement of Need and Intent

The Clark Fork Coalition chose this project based on the priority tributaries identified in the Bitterroot by our Vital Rivers Initiative planning paper "Strategic Considerations for the Bitterroot Watershed-2012". This paper was based in part on findings in the Bitterroot River Subbasin Plan that was created in August 2009 on the behalf of the Northwest Power and Conservation Council. One of the conclusions of this document is "The top three water quality issues in the Bitterroot that limit native fish productivity are dewatering, high water temperature, and sediment". Lolo creek is the third largest tributary of the Bitterroot River, after the West and East Fork, and CFC is already active in the watershed purchasing and leasing water rights for instream flow projects. The Coalition is looking to build upon this effort with a top down effort in the watershed by addressing sediment issues high in the basin. Public benefits from this project will include: improved quantity and quality of aquatic habitat, improved water quality, increased fish numbers, enhanced fishing opportunities and an improved tourism economy.

### B: Collaborative Effort

Partner	Role
USFS-Lolo National Forest	Project Landowner- Planning, Design, GIS mapping, Permitting, Inspections
Westslope TU	Project supporter and funds contributor
Lolo Watershed Group	Project supporter and WRP author, involved with E&O on the project
Montana Fish Wildlife and Parks	Project funding through Future Fisheries program and monitors the fishery

#### *Additional Information (Collaborative Effort)*

The Lolo National Forest will be closely involved with project planning and permitting. This effort will be led by Traci Sylte, the Lolo NF's Soil, Water, and Fisheries Program Manager and includes GIS mapping, on the ground planning visits, establishing design parameters, NEPA permitting and final inspection of implemented work. Westslope TU is an active funder who has already pledged \$11,000 to the project and will be helping with E&O activities. The Lolo Watershed Groups work on the WRP for Lolo Creek has helped shape the project and they will be participating in E&O activities. MFWP's fisheries biologist Ladd Knotek will be continuing to monitor fish populations in the Lolo Creek watershed and Future Fisheries funds will be applied for before the 12/1/2014 deadline.

**C: Project Planning and Management**

<b>Funding Organization</b>	<b>Award Amount</b>	<b>Project Description</b>	<b>Project Status</b>	<b>Contact Information</b>
DEQ	\$105,000	Installation of a siphon under Lost Horse Creek in order to remove a gravel dam. The project will solve issues with sediment, fish passage and entrainment, and chronic dewatering of the creek. Ward Irrigation District will reduce its irrigation diversion by 10 cfs for 50 years upon completion of the project.	Construction Phase	Katie Eiring DEQ 1520 E. 6th Ave Helena, MT 59601 406-444-0549
FWP	\$93,500	Installation of a siphon under Lost Horse Creek in order to remove a gravel dam. The project will solve issues with sediment, fish passage and entrainment, and chronic dewatering of the creek. Ward Irrigation District will reduce its irrigation diversion by 10 cfs for 50 years upon completion of the project.	Construction Phase	Michelle McGree MFWP PO Box 200701 Helena, MT 59620 406-444-2432
USFWS	\$60,000	Installation of a siphon under Lost Horse Creek in order to remove a gravel dam. The project will solve issues with sediment, fish passage and entrainment, and chronic dewatering of the creek. Ward Irrigation District will reduce its irrigation diversion by 10 cfs for 50 years upon completion of the project.	Construction Phase	George Jordan USFWS 2900 4th Ave N, rm 301 Billings, MT 59101 406-247-7365

**Additional Information (Planning and Management)**

CFC brings an experienced technical and grant management team to this project and a proven track record of administration and performance on government funded grants during its 29 year history. The project will be led by CFC's Bitterroot project manager Jed Whiteley. Jed has been involved in over \$1 million dollars of road decommissioning work in Western Montana and the Idaho Panhandle and is currently overseeing the \$500,000 Lost Horse Siphon project including the administration of all the grant funding from 5 separate government sources. He has managed over \$3 million/year of restoration projects as a PM in the private sector and is Rosgen Level III certified with 14 years experience in heavy equipment stream restoration. On the administrative end Jed will be backed by CFC's Development and Communications director and CFC's grant administrator.

### Section III: Project Components

**A: Education and Outreach: Please briefly describe the education and outreach component of this proposal, the target audience, and the method of delivery.**

CFC plans to work closely with landowners in the watershed, irrigators, the conservation district, state and government agencies to communicate the water quality and fishery benefits associated with this sediment reduction project. Education and Outreach will be carried out through presentations at Lolo Watershed Group community meetings, brochures, articles in the CFC newsletters, and postings to the CFC website. Field trips to project areas will be also be carried out.

**C: Operation and Maintenance**

The goal of this project to reduce the operation and maintenance of the selected roads and culverts to 0. By completely removing these features from the watershed costly maintenance will be avoided as well as potential impacts of deferred maintenance.

**D: Monitoring: Please briefly describe the monitoring component of this proposal.**

In order to monitor the effectiveness of the project CFC proposes to establish permanent bench-marked cross-sections where channel pattern, dimension and profile can be tracked through time using Rosgen Level II parameters (Lolo Creek WRP pg. 95) In addition Wolman pebble counts will be conducted at these locations to determine pre and post project streambed composition. The goal of the monitoring will be to estimate annual sediment load reduction resulting from the project. The monitoring effort will be led by CFC's project manager Jed Whiteley who is Rosgen Level III certified. A SAP will be developed by CFC and approved by DEQ before monitoring efforts begin. Monitoring activities are based on the recommendations stated in the Upper Lolo Sediment TMDL Implementation Evaluation (Section 2.0 TMDL-Recommended Activities) The Lolo NF would like to support the monitoring and sediment load estimate, but under current Forest priorities, limited staffing and funding are precluding this work. To assure that this work is conducted, the Forest would need a priority request from the State, and likely funding.

## Section IV: Scope of Work

Task 1 Title Planning and Design of Decommissioning of Forest Roads

### Description

Preliminary mapping and assessment of excess forest roads have been carried out by Lolo National Forest. CFC will work with Lolo National Forest to complete project planning, design and permitting.

### Deliverables

- A complete draft copy of project designs for DEQ review and comment
- A complete final copy of projects designs. In the final designs, Contractor shall address all concerns raised by DEQ in the review of previous drafts
- Copies of all permits necessary for implementation of the project designs.
- A complete copy of all project area maps

### Task 1 Funding

319 Funds	\$23,000.00
Non-Federal Match	\$7,500.00
Other Federal Funds	\$15,000.00
Total Cost	\$45,500.00
Is Match Secured?	No

Timeline August 2015-July 2016

Match Source FWP Future Fisheries, Westslope TU

Task 2 Title Implementation of Decommissioning of Forest Roads

### Description

CFC will implement the Upper Lolo Creek Sediment Reduction project in accordance with the designs, permits and other project planning documents. CFC will be responsible for procurement and oversight of construction contractor. Contractor shall document implementation activities by providing the deliverables identified below.

### Deliverables

- 100% decommissioning of 12-14 miles of forest roads
- A minimum of 8 culverts removed and stream bed returned to before culvert grade
- Draft request for proposals (RFP) for DEQ review and comment. Contractor shall submit draft RFP prior to release and allow at least 30 days for DEQ review, comment, and subsequent modification prior to release
- A final copy of the RFP
- Lolo NF sign off on completed work
- Before and after photos of project areas

### Task 2 Funding

319 Funds	\$70,000.00
Non-Federal Match	\$79,000.00
Other Federal Funds	\$0.00
Total Cost	\$149,000.00
Is Match Secured?	No

Timeline July 2016-November 2017

Match Source FWP Future Fisheries, Westslope TU

### Task 3 Title Sampling and Analysis (SAP) Development

#### Description

CFC will develop a SAP to guide monitoring. CFC will monitor sediment before and following the completion of the project.

#### Deliverables

-A complete draft SAP for review and comment, in electronic (Microsoft Word) format. All draft documents must be submitted prior to signature, allowing at least 30 days for DEQ review, comment, and subsequent modification prior to implementation.  
-PDF, Microsoft Word, and hard copies of fully signed SAP. Contractor shall ensure that the fully signed SAP addresses all comments and concerns raised by DEQ.

#### Task 3 Funding

319 Funds	\$2,000.00
Non-Federal Match	\$1,000.00
Other Federal Funds	\$0.00
Total Cost	\$3,000.00
Is Match Secured?	Yes

Timeline August 2015-July 2016

Match Source Westslope TU

### Task 4 Title Monitoring Sediment Reduction

#### Description

CFC will complete monitoring in accordance with the SAP prepared for Task 2. This includes establishing permanent bench-marked cross-sections where channel pattern, dimension and profile can be tracked through time using Rosgen Level II parameters. These cross-sections will be established before construction activities begin and then monitored again after completion of project. In addition Wolman pebble counts will be conducted at these locations to determine pre and post project streambed composition. The goal of the monitoring will be to estimate annual sediment load reduction resulting from the project. CFC will summarize all data in an annual report to DEQ at the end of each monitoring season and submit using the most current upload process.

#### Deliverables

-Verification of successful data upload  
-PDF copy of all EDD's  
-PDF and hard copies of all Field Data Sheets, Site Visit Forms, and Chain of Custody Forms  
-Electronic copies of site photographs and photopoints, in JPEG format.  
-A written annual report that summarizes sampling and analytical activities, deviations from the SAP (if there were any), quality control problems that may have occurred, and conclusions drawn from the study

#### Task 4 Funding

319 Funds	\$10,000.00
Non-Federal Match	\$1,000.00
Other Federal Funds	\$0.00
Total Cost	\$11,000.00
Is Match Secured?	Yes

Timeline July 2016-September 2018

Match Source Westslope TU

## Task 5 Title Conduct Project Education and Outreach

### Description

CFC plans to work closely with landowners in the watershed, irrigators, the conservation district, state and government agencies to communicate the water quality and fishery benefits associated with this sediment reduction project. Education and Outreach will be carried out through presentations at Lolo Watershed Group community meetings, brochures, articles in the CFC newsletters, and postings to the CFC website. Field trips to project areas will be also be carried out.

### Deliverables

- Copies of all postings to the Clark Fork Coalition website and Facebook page
- Copies of all relevant newsletters
- Meeting agendas, summaries and sign-in sheets
- Copies of press releases and newspaper clippings related to the Contract

### Task 5 Funding

319 Funds	<input type="text" value="\$3,000.00"/>
Non-Federal Match	<input type="text" value="\$500.00"/>
Other Federal Funds	<input type="text" value="\$0.00"/>
Total Cost	<input type="text" value="\$3,500.00"/>
Is Match Secured?	<input type="text" value="Yes"/>

Timeline August 2015-September 2018

Match Source Westslope TU

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## Task 6 Title Project Administration

### Description

Proper budgeting for administration costs will ensure that we have the necessary support to meet the terms of the grant and maintain proper accounting and reporting for the DEQ 319 program.

### Deliverables

- Status reports
- Annual reports
- Attachment B-billing statements
- Final report

### Task 6 Funding

319 Funds	<input type="text" value="\$12,000.00"/>
Non-Federal Match	<input type="text" value="\$6,000.00"/>
Other Federal Funds	<input type="text" value="\$0.00"/>
Total Cost	<input type="text" value="\$18,000.00"/>
Is Match Secured?	<input type="text" value="Yes"/>

Timeline August 2015-September 2018

Match Source Westslope TU



Task 7 Title \_\_\_\_\_

Description

Deliverables

Task 7 Funding

319 Funds	<input type="text"/>
Non-Federal Match	<input type="text"/>
Other Federal Funds	<input type="text"/>
Total Cost	<input type="text"/>
Is Match Secured?	<input type="text"/>

Timeline \_\_\_\_\_ Match Source \_\_\_\_\_

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Task 8 Title \_\_\_\_\_

Description

Deliverables

Task 8 Funding

319 Funds	<input type="text"/>
Non-Federal Match	<input type="text"/>
Other Federal Funds	<input type="text"/>
Total Cost	<input type="text"/>
Is Match Secured?	<input type="text"/>

Timeline \_\_\_\_\_ Match Source \_\_\_\_\_

Task 9 Title \_\_\_\_\_

Description

Deliverables

Task 9 Funding

319 Funds	<input type="text"/>
Non-Federal Match	<input type="text"/>
Other Federal Funds	<input type="text"/>
Total Cost	<input type="text"/>
Is Match Secured?	<input type="text"/>

Timeline \_\_\_\_\_ Match Source \_\_\_\_\_

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Task 10 Title \_\_\_\_\_

Description

Deliverables

Task 10 Funding

319 Funds	<input type="text"/>
Non-Federal Match	<input type="text"/>
Other Federal Funds	<input type="text"/>
Total Cost	<input type="text"/>
Is Match Secured?	<input type="text"/>

Timeline \_\_\_\_\_ Match Source \_\_\_\_\_

## Section V: Supporting Documents

## A: Detailed Project Budget

Task Number and Specific Action	319 Funds	State Cash Match	Local Cash Match	In-Kind Match	Federal Funds	Total Costs
Task 1 Planning and design	\$23,000	\$4,000	\$3,500			\$30,500
Task 2 Implementation	\$70,000	\$76,000	\$3,000			\$149,000
Task 3 SAP	\$2,000		\$1,000			\$3,000
Task 4 Monitoring	\$10,000		\$1,000			\$11,000
Task 5 E&O	\$3,000		\$500			\$3,500
Task 6 Project Administration	\$12,000		\$6,000			\$18,000
TOTAL	\$120,000	\$80,000	\$15,000			\$215,000

**B: Project Milestone Table:** Please complete the following Project Milestone Table by entering task numbers and titles in the left hand column, then check the box(es) for the appropriate quarter(s) and year(s) in which the task will take place.

Milestone	Spring 2015	Summer 2015	Fall 2015	Winter 2016	Spring 2016	Summer 2016	Fall 2016	Winter 2017	Spring 2017	Summer 2017	Fall 2017
Task 1 Planning and Design	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Task 2 Implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Task 3 SAP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Task 4 Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Task 5 E&O	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Task 6 Project Administration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please ensure that you submit a **project map(s)** and **letters of support (at least 3)** along with this Final Application form. If design drawings are available please provide those as well. For on-the-ground work please include copies of the applicable permits.

☒ **C: Project Map**

☒ **D: Letters of Support**

☒ **E: Design Drawings**

☐ **F: Applicable Permits**

☐ **G: Draft of amended WRP (if applicable)**

☒ **H: Photos**

**I: Please use the space provided for any additional information that may not have been captured by this application form.**

Below are responses from the Lolo NF to questions that were sent with the DEQ's comments letter:

The Lolo NF would like to support the monitoring and sediment load estimate, but under current Forest priorities, limited staffing and funding are precluding this work. To assure that this work is conducted, the Forest would need a priority request from the State, and likely funding.

No NEPA has been conducted to address TMDL issues associated with the newly acquired lands. At present funding and staffing levels, and without a change in priorities, the Forest does not have the capacity to conduct a similar environmental assessment for the newly acquired lands. However, the Forest Service does have authority to Categorically Exclude road decommissioning on 'non-system' roads. The Lolo has not placed the newly acquired roads on to the Forest system roads; therefore, the Forest strategy would be to address NEPA through a categorical exclusion. This process also takes considerable time and interdisciplinary team involvement. The Missoula District Ranger is supportive of conducting NEPA on 3-5 miles of high fisheries impact roads in the next year, provided this effort does not affect other higher priority work.

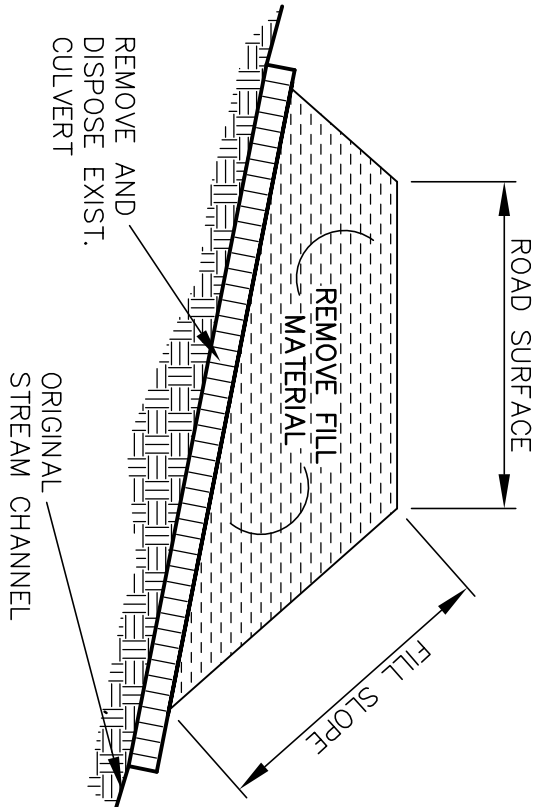
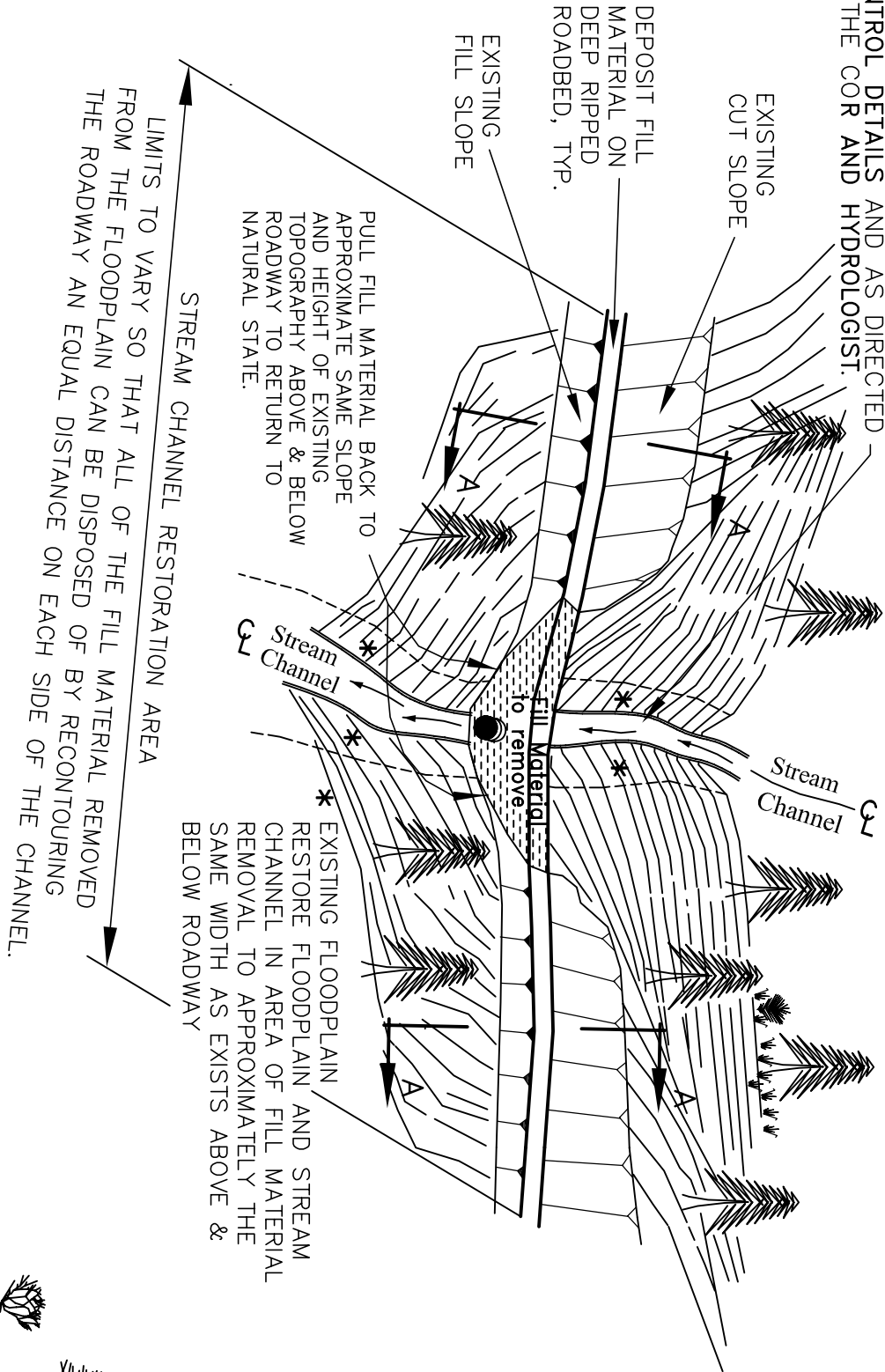
Missoula Ranger District cannot officially commit to completing the NEPA for many reasons; however, the District Ranger and Soil, Water, and Fisheries staff will work earnestly to process the necessary categorical exclusion for decommissioning 3-5 miles of roads that are high impact to fisheries and water resources.

Yes, the Lolo National Forest Plan has a travel management plan, which is outlined by our current Forest Plan, which in addition to setting policy and framework, it designates that off-road use from system roads is not-authorized.

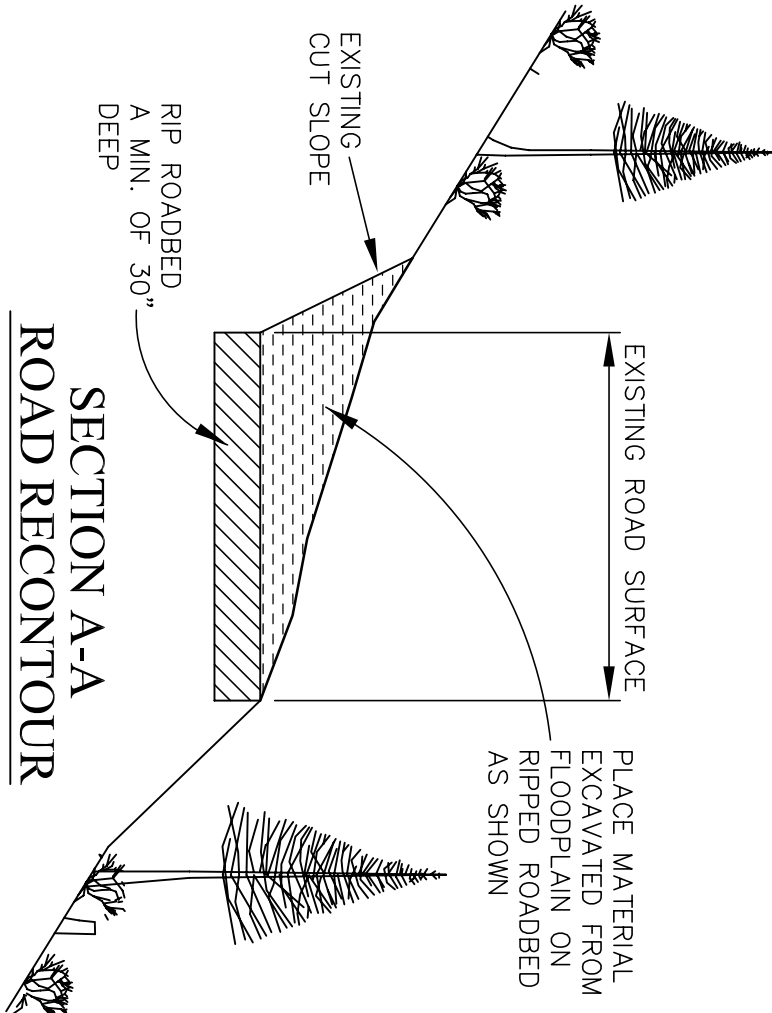
6. The Lolo National Forest and the Clark Fork Coalition recently signed a general Partnership Agreement where individual work items are assigned as a task under this agreement. In other words, the CFC and Lolo NF are well-positioned to secure funding and jointly work towards improving conditions in Upper Lolo Creek.

# STREAM CHANNEL RESTORATION

PLACE GRADIENT CONTROL STRUCTURES AS PER GRADIENT CONTROL DETAILS AND AS DIRECTED BY THE COR AND HYDROLOGIST.



## TYPICAL SECTION- STREAM CHANNEL



## NOTES:

1. REMOVE ALL FILL MATERIAL FROM FLOODPLAIN DOWN TO THE ORIGINAL CHANNEL. PLACE REMOVED MATERIAL ON THE DEEP RIPPED ROADBED. DO NOT DEPOSIT MORE OF THIS MATERIAL THAN WAS ORIGINALLY IN PLACE PRIOR TO ROAD CONSTRUCTION. FULLY RECONTOUR THE ADJACENT ROADWAY WITHIN THE STREAM CHANNEL RESTORATION AREA BY PULLING UP THE ROADWAY FILL, PLACING THE FILL ONTO THE ROADWAY, AND CONTOURING IT TO THE ADJACENT ORIGINAL GROUND SLOPES. ADJUST LIMITS OF STREAM CHANNEL RESTORATION AREA SO THAT ALL EXCAVATED MATERIAL IS USED TO RECONTOUR THE ROADBED AS SHOWN ON THIS SHEET.
2. DISTANCES FOR STREAM CHANNEL RESTORATION MAY BE ADJUSTED TO EITHER SIDE OF THE CHANNEL TO ACCOMMODATE OVERLAPPING SECTIONS WHERE STREAMS ARE CLOSE TOGETHER.
3. SCATTER AVAILABLE WOODY DEBRIS ON THE FINISHED SLOPE. PLACE LARGER WOOD AND ROCK ON THE FLOODPLAIN.
4. TREATMENT OF RESTORED CHANNEL WILL INCLUDE FURNISHING AND INSTALLING TEMPORARY AND PERMANENT SEDIMENT CONTROL MEASURES AS DETERMINED NECESSARY BY COR, MULCHING THE DISTURBED AREA WITH WEED FREE STRAW MULCH, AND REMOVING AND DISPOSING OF THE EXTRACTED CMP FROM THE JOBSITE.

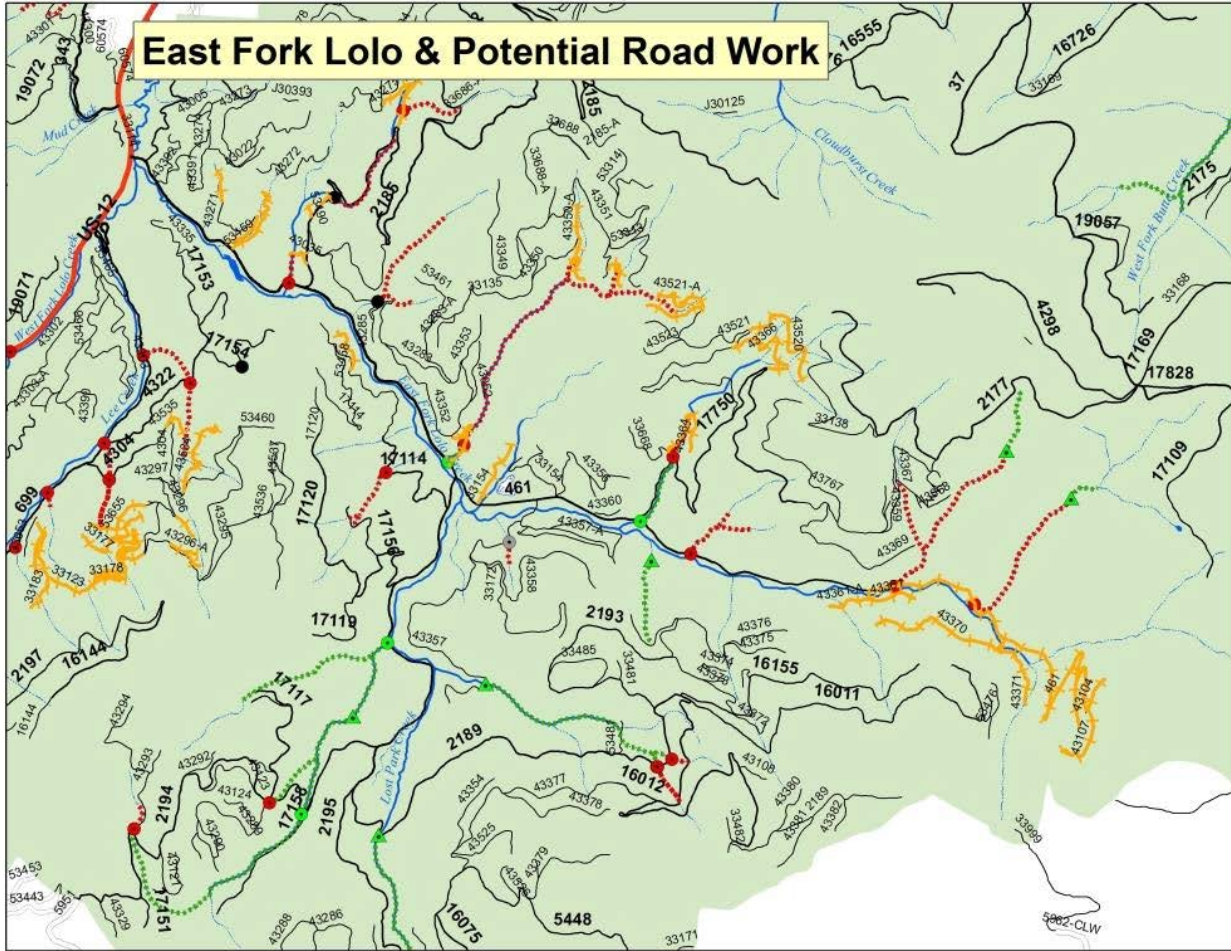
EUSTACHE CREEK REHABILITATION		SHEET	TOTAL
Road Decommissioning & Stream Channel Typical		14	17

**East Fork Lolo & Previous Road Work**

This topographic map displays the East Fork Lolo area, highlighting previous road work. The map includes contour lines, elevation points, and road networks. A yellow box at the top left contains the title "East Fork Lolo & Previous Road Work". The map shows a grid of sections with various elevation markers and road labels like "US-12" and "16555".



## East Fork Lolo & Potential Road Work

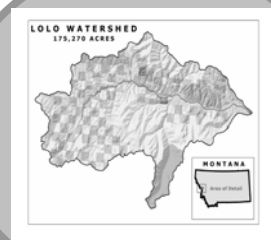








*The mission of the LWG is to understand and conserve the unique characteristics of the Lolo Creek Watershed, including its wildlife and fisheries, scenic and rural character, local agriculture, and recreational opportunities while supporting private property and water rights*



September 26, 2014

To Robert Ray, Watershed Protection Section Supervisor Water Quality Planning Bureau  
Department of Environmental Quality  
P.O. Box 200901  
Helena, MT 59620-0901  
RE: Support for Clark Fork Coalition 319 project proposal

Lolo Creek has been classified as impaired due to sedimentation throughout many tributaries and the main stem of Lolo Creek. In the upper reaches of Lolo Creek, sedimentation sources include forest roads, some of which are no longer needed, with failing erosion control structures, and failing or undersized culverts. The Lolo Creek Watershed Restoration Plan specifies opportunities for improving the Lolo Creek cold-water fisheries and aquatic life and for reducing sedimentation. Those opportunities include removing roads that are no longer needed, removing inadequate culverts, and bringing remaining roads up to current Best Management Practice standards.

The project proposed by the Clark Fork Coalition will address sedimentation and fisheries concerns identified in the Lolo Creek Watershed Restoration Plan, meeting the plan's suggestions for restoration projects on 25 miles of forest roads. The Lolo Watershed Group supports this project proposal as a means to work toward meeting goals set in the Lolo Creek WRP.

Sincerely,

Roberta A. Bartlette

Roberta A. Bartlette  
President  
Lolo Watershed Group



**Date:** September 25, 2014

Robert Ray  
Water Quality Planning Bureau  
Department of Environmental Quality  
1520 E. Sixth Avenue  
P.O. Box 200901  
Helena, MT 59620-0901

Dear Mr. Ray,

The Lolo National Forest strongly supports the Clark Fork Coalition's grant application for the Upper Lolo Creek watershed restoration work. The Clark Fork Coalition is applying for grant funds from the Clean Water Act Section 319 Nonpoint Source (NPS) Program to work with the US Forest Service to reduce human-caused sediment sources and improve habitat fragmentation in this watershed. Primary goals are native fish connectivity and fulfilling TMDL responsibilities to reduce sediment deliveries in these reaches. The Lolo National Forest earnestly fulfilled initial work to address TMDL responsibilities, including 11 culvert replacements and nearly 100 miles of road decommissioning; however, more work is necessary to address needs on newly acquired industrial forest lands.

The Clark Fork Coalition and the Lolo National Forest have been working on cooperative projects for several years, including establishing nearly 80 permanent temperature monitoring stations across the entire Lolo National Forest, collected stream discharge data with regards to instream flow management, working to understand feasibility of beaver habitat and potential reintroduction, and is nearly completed with a climate change watershed vulnerability assessment. The Lolo National Forest continues to provide funding to these efforts when possible. As such, the Clark Fork Coalition and the Lolo National Forest have a track-record of proven success and are now hoping to expand the partnership to restoration implementation. Our first focus for this partnership is Upper Lolo Creek because of the TMDL responsibilities and its significance to cold water native fisheries.

Funds from the NPS Program are essential to completing on-the-ground reclamation projects and will be matched by state, federal and potentially private funds.

Thank you very much for the funding opportunity and your continued work for conserving natural resources. Please do not hesitate to contact me if you have any questions.

Sincerely,

/s/ Traci Sylte  
TRACI SYLTE  
Forest Soil, Water, and Aquatics Program Manager







*WestSlope Chapter of Trout Unlimited,  
PO Box 7165, Missoula, MT 59807-7165  
406-546-3005*

September 25, 2014

To Whom It May Concern:

I am writing on behalf of WestSlope Chapter of Trout Unlimited in order to show our support of the Upper Lolo Sediment Reduction Project.

We have always been in favor of the decommissioning of roads and their associated culverts that have historically added sediment to the Clark Fork and surrounding watersheds. We have supported many such projects financially as part of our work. When a large-scale well planned project such as this one has objectives that include monitoring for project effectiveness and outreach to educate members of the community and government agencies, we couldn't be more pleased.

The main goals of WestSlope Chapter of Trout Unlimited are to conserve, protect and restore our area's cold-water fisheries and their watersheds. These goals also include educating the public on the importance of clean cold water and healthy fisheries. For these reasons WestSlope Chapter of Trout Unlimited supports The Upper Lolo Sediment Reduction Project both philosophically and financially.

Sincerely,

*James Short*

James Short  
President, WestSlope Chapter of Trout Unlimited