



319 Nonpoint Source Final Project Proposal  
FY2016 Final Proposals are due Monday, September 28, 2015

**Section I: General Information**

Project Title Upper Lolo Creek Sediment Reduction Project Phase 2: Implementation

**Project Sponsor Information**

Sponsor Name Clark Fork Coalition

Registered with the Secretary of State? Yes

Registered with SAM? Yes

County Missoula

Website www.clarkfork.org

Tax Identification # 36-3428665

DUNS # 840737332

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 59801

City Missoula State Montana Zip Code 59801

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**

12 Digit HUC #(s) 170102051405

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

(1) Probable cause(s) of impairment to be addressed (ex. metals) Sedimentation/ siltation

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

(2) Probable cause(s) of impairment to be addressed (ex. metals) \_\_\_\_\_

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

(3) Probable cause(s) of impairment to be addressed (ex. metals) \_\_\_\_\_

Activity 1 Name Road decommissioning

Latitude (1) 46 40' 10" N

Longitude (1) 114 31' 3" W

Activity 2 Name \_\_\_\_\_

Latitude (2) \_\_\_\_\_

Longitude (2) \_\_\_\_\_

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 address impairments identified 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 (%) \_\_\_\_\_

9/28/15

## Project Funding

319 Funds Requested	<input type="text" value="\$89,700.00"/>	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 Streamflow Enhancement"/>
State Cash Match	<input type="text" value="\$78,200.00"/>	DEQ Contract Number	<input type="text" value="213023"/>
Local Cash Match	<input type="text" value="\$1,800.00"/>	319 Award	<input type="text" value="\$134,240.00"/>
In-Kind Match	<input type="text" value="\$1,000.00"/>	Projected Closing Date	<input type="text" value="November 15, 2017"/>
Total Match	<input type="text" value="\$81,000.00"/>	Project Title	<input type="text" value="Upper Lolo Sediment Reduction Phase 1"/>
Other Federal Funds	<input type="text" value="\$24,800.00"/>	DEQ Contract Number	<input type="text" value="216006"/>
Total Project Budget	<input type="text" value="\$195,500.00"/>	319 Award	<input type="text" value="\$30,000.00"/>
Administrative Fee	<input type="text" value="\$8,900.00"/>	Projected Closing Date	<input type="text" value="September 1, 2016"/>

## Section II: Project Description

### Goal and Objectives: Describe the overall goal and specific objectives for this project.

Measurable objectives for the project include completing 100% recontouring of 14.3 miles of forest roads and the removal of at least 25 culverts, monitor stream cross-sections to assess 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 Lolo Creek TPA as well as opening up many miles of stream to fish for spawning and cold water refugia. The TMDL states that the greatest sources of sediment in Upper Lolo are forest roads and traction sand from Hwy 12. The Lolo Watershed Group currently has an open 319 contract to help address the traction sand issue and this project is directly aimed at addressing sediment form forest roads.

### Methods: Describe the approach selected to address/correct the problem(s), e.g. types of BMPs to be installed, and other important activities.

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. BMP's will be installed on remaining forest roads.

### Summary: Provide a brief summary of the 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 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. 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 will start in 2016 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).

### Statement of Project 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.

### Describe the pre-project planning that has already occurred.

Extensive preproject planning has already occurred through CFC's collaboration with the Forest Service made possible by the 319 funding for Phase 1. All the project roads have been selected, culverts to be removed identified, GPS coordinates have been gathered and entered into GIS layers to create maps, and level of road treatments decided on. The Lolo National Forest has begun the NEPA process and expects to have it finished by the end of 2015. Part of the planning process was to prioritize the 14.3 miles of road (see attached map for color coded prioritization). The priority for decommissioning on the 14.3 miles of road breaks out as: 9.8 miles high priority, 3.1 miles moderate and 1.3 low. CFC also worked with the LNF on planning the remaining phases of the Upper Lolo Creek Sediment Project and came up with 4 more phases for treating forest roads and associated culverts in the Upper Lolo TPA. We identified 22.2 miles in Granite Creek and 22.6 in the West Fork and mainstem of Upper Lolo Creek. CFC proposes to decommission approximately 11 miles of road per year on these streams once the East Fork project is completed.

### Collaborative Effort: Describe the collaborative effort you have engaged in to ensure support from all appropriate partners.

CFC has been working closely with the Lolo National Forest to ensure that the project stays on time and budget. This has included phone conversations, email, face to face meetings and group site visits. CFC has also held regular meeting with the Lolo Watershed Group to keep them up to date on the project and to plan E&O activities around the project. CFC's project manager Jed Whiteley gave a presentation at the annual Westslope TU banquet on the Upper Lolo project and has been updating the Westslope TU board regularly on project progress.

### Partners and Roles: Identify the project partners and their roles.

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

### Technical and Administrative Qualifications

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.

### Past and Current Projects

Funding Organization	Award Amount	Project Description	Project Status	Contact Information
DEQ	\$105,000.00	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.	Completed	Katie Eiring DEQ 1520 E. 6th Ave Helena, MT 59601 406-444-0549
FWP	\$93500.00	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.	Completed	Michelle McGree MFWP PO Box 200701 Helena, MT 59620 406-444-2432
USFWS	\$60,000.00	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.	Completed	George Jordan USFWS 2900 4th Ave N, rm 301 Billings, MT 59101 406-247-7365
	\$0.00			
	\$0.00			

### Section III: Scope of Work

Task 1 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 obtained under DEQ contract: Upper Lolo Sediment reduction Phase 1". 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 14 miles of forest roads  
-A minimum of 25 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 1 Funding

319 Funds	\$79,300.00
Non-Federal Match	\$78,200.00
Other Federal Funds	\$10,000.00
Total Cost	\$167,500.00
Is Match Secured?	Yes

Timeline July 2016-November 2018

Match Source MFWP, WSTU

Task 2 Title Monitoring

#### Description

CFC will complete monitoring in accordance with the SAP prepared for Task 2. 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 2 Funding

319 Funds	\$1,000.00
Non-Federal Match	\$500.00
Other Federal Funds	
Total Cost	\$1,500.00
Is Match Secured?	Yes

Timeline July 2016-November 2018

Match Source MFWP, WSTU

### Task 3 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.

#### 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 3 Funding

319 Funds	<input type="text" value="\$500.00"/>
Non-Federal Match	<input type="text" value="\$500.00"/>
Other Federal Funds	<input type="text"/>
Total Cost	<input type="text" value="\$1,000.00"/>
Is Match Secured?	<input type="text" value="Yes"/>

Timeline July 2016-November 2018

Match Source MFWP, WSTU

### Task 4 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 4 Funding

319 Funds	<input type="text" value="\$8,900.00"/>
Non-Federal Match	<input type="text" value="\$1,800.00"/>
Other Federal Funds	<input type="text"/>
Total Cost	<input type="text" value="\$10,700.00"/>
Is Match Secured?	<input type="text" value="Yes"/>

Timeline July 2016-November 2018

Match Source MFWP, WSTU, CFC



## Section IV: Supporting Documents

### 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 Implementation of Decommissioning	\$79,300	\$78,200				\$157,500
Task 2 Monitoring	\$1,000		\$500			\$1,500
Task 3 Education and Outreach	\$500		\$500			\$1,000
Task 4 Project Administration	\$8,900		\$800	\$1,000		\$10,700
<b><u>TOTAL</u></b>	\$89,700	\$78,200	\$1,800	\$1,000		\$170,700

**Project Milestone Table:** 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 years(s) in which you will be working on the task.

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 Implementation of Decommissioning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Task 2 Monitoring	<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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Task 3 Education and Outreach	<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 4 Project Administration	<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"/>
	<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"/>
	<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"/>
	<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"/>
	<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"/>

Submit **project map(s)** and **letters of support (at least 3)** along with the Final Project Proposal form. If your organization is not the author of the WRP you hope to implement, you must request a letter of support from the original authoring entity. If the authoring entity refuses to provide a letter of support, use the additional space at the end of the application to describe their response. If design drawings are available, provide those as well. For on-the-ground work, include copies of applicable permits if available.

- ☒ Project Map
- ☒ Letters of Support
- ☒ Design Drawings
- ☐ Applicable Permits
- ☐ Draft of amended WRP (if applicable)
- ☐ Photos
- ☒ Landowner Agreements

**Use the space provided for any additional information that may not have been captured elsewhere in this Final Project Proposal**

It is very important that this project receive full funding this round in order for it to reach all of its goals and objectives. The Lolo National Forest has committed the necessary personnel in 2016 to complete the project in its current scope but a new federal budget in 2017 could change Forest Service personnel availability.



# EF Lolo Creek Road Decommissioning

**Legend**

**Priority**

High

Low

Moderate

**Streams**

perennial

intermittent

All Roads Data







**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.

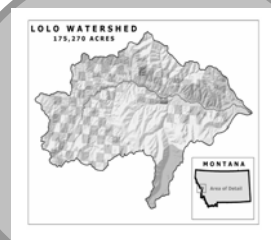
Sincerely,

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





*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



*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.

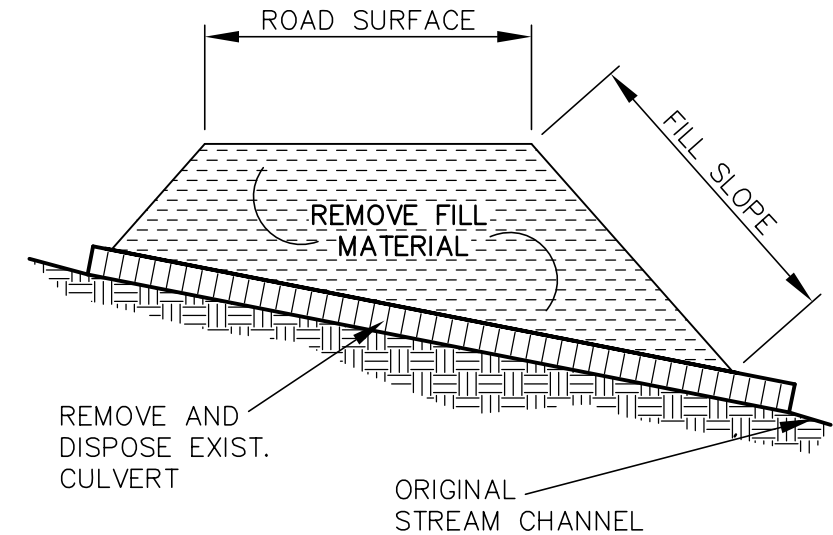
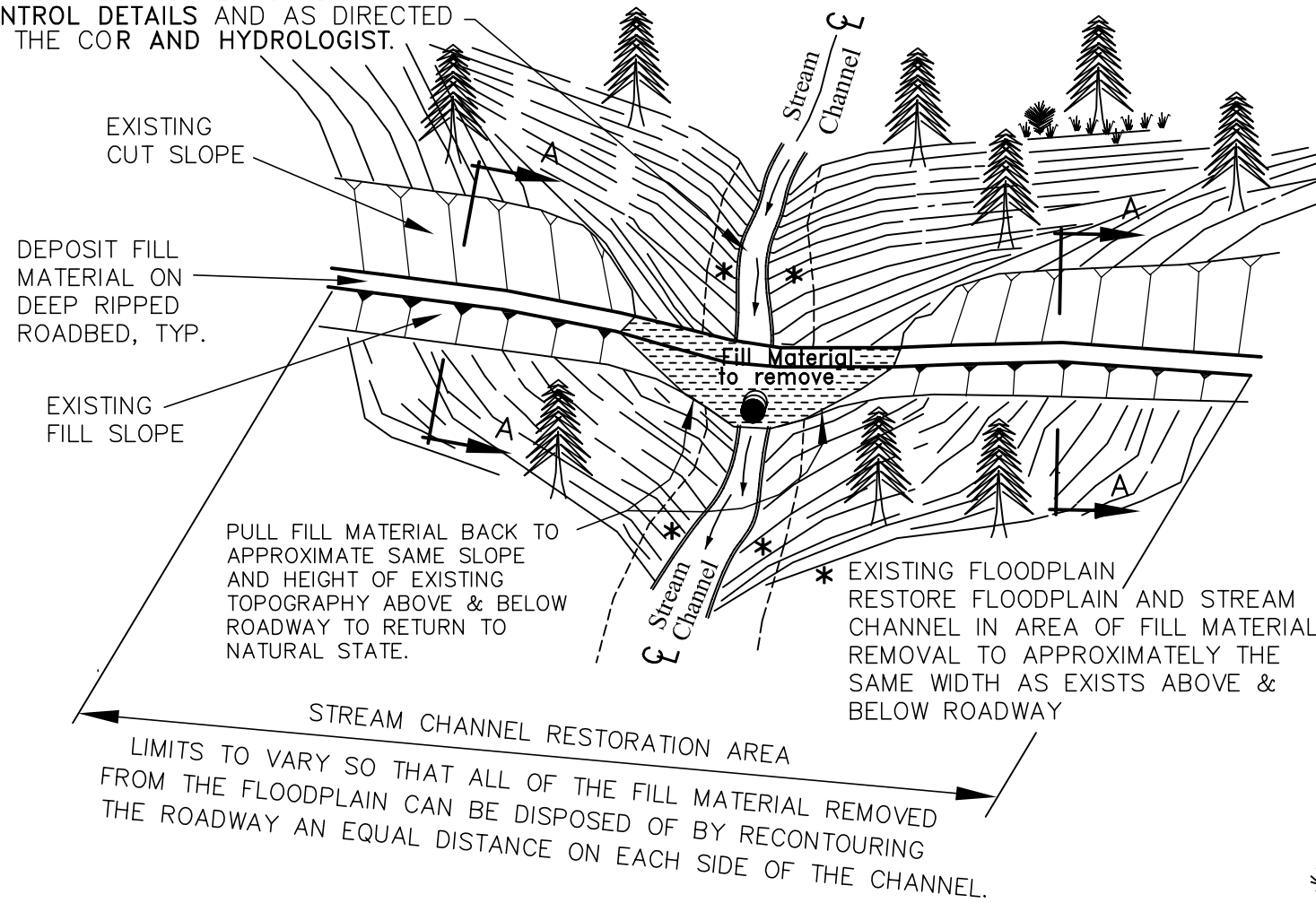
Sincerely,

*James Short*

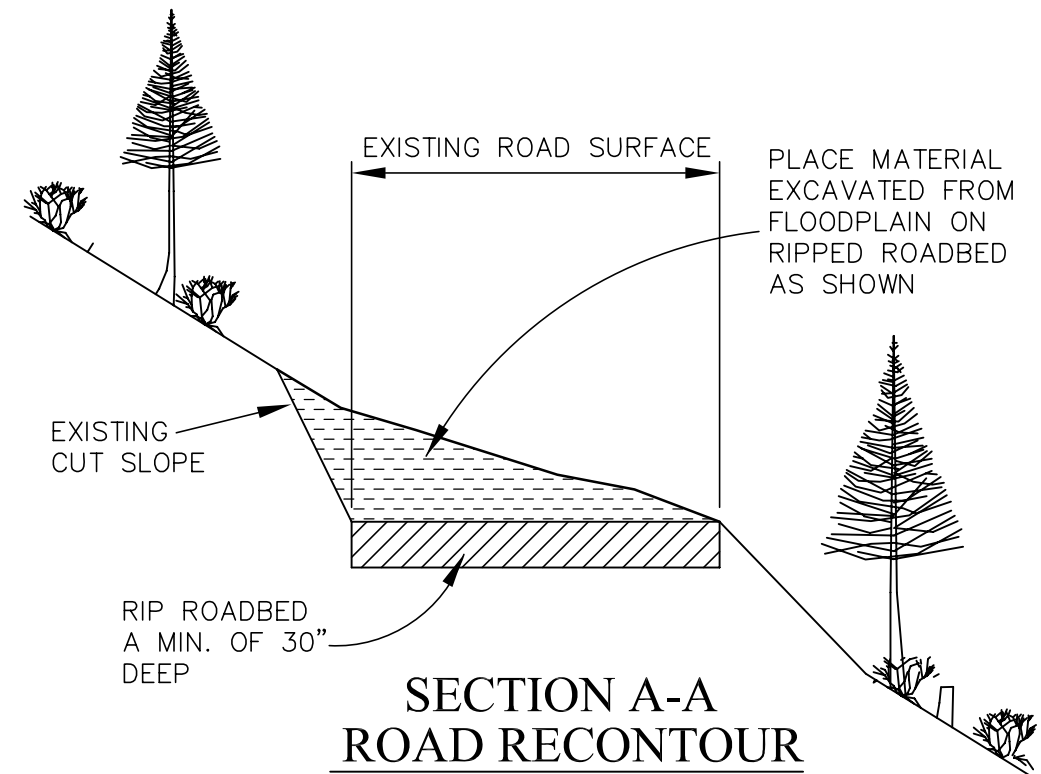
James Short  
President, WestSlope Chapter of Trout Unlimited

# 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

## STREAM RESTORATION AGREEMENT

This Agreement dated June 5th, 2015 between the Clark Fork Coalition and the Lolo National Forest (Landowner) is entered into to authorize restoration work on Upper Lolo Creek and its tributaries as it flows on or adjacent to Landowner's property. This restoration project is located in Section(s) 27, Township(s) 11N, Range(s) 23W in Missoula County. Work performed will be as described in the Future Fisheries application submitted by the Clark Fork Coalition (Attn: Jed Whiteley) and dated 11/25/14.

This rehabilitation project is intended to effect stream improvements, which are enduring in nature. Therefore the Landowner agrees to protect and maintain the rehabilitation investment for a minimum of 20 years, subject to available funding. All future management activities will be in compliance with the Lolo National Forest Land Management Plan and in accordance with any existing and/or future rights.

Notwithstanding the forgoing, it shall not become the Landowner's responsibility to repair or replace project improvements should they become damaged, changed or destroyed by natural means. The landowner guarantees ownership of the above-described land and warrants that there are not outstanding rights that will interfere with this cooperative agreement. Further, if land ownership is transferred, this agreement will remain valid for the period of this agreement.

This agreement may be terminated in writing by either party by providing thirty (30) days advance notice. If terminated by the Landowner or the restoration site is degraded due to purposeful or negligent activities of the Landowner; the property owner agrees to reimburse the Clark Fork Coalition for the costs of the needed repair work or the original cost of the project.

Improvements placed on National Forest System land at the direction of either of the parties, shall thereupon become property of the United States, and shall be subject to the same regulations and administration of the Forest Service as other National Forest improvements of a similar nature. No part of this instrument shall entitle the Clark Fork Coalition to any share or interest in the project other than the right to use and enjoy the same under the existing regulations of the Forest Service. The Clark Fork Coalition does not assume jurisdiction over the property as a result of this agreement. The Landowner retains all normal property right including the right to control trespass.

  
\_\_\_\_\_  
Clark Fork Coalition

  
\_\_\_\_\_  
TIMOTHY GARCIA, Forest Supervisor,  
Lolo National Forest

June 5, 2015 (KIC)  
~~Sept. 18, 2015~~  
\_\_\_\_\_  
Date

June 5, 2015  
\_\_\_\_\_  
Date

Approved for Legal Content:

\_\_\_\_\_  
FWP Attorney