

Date of Report: 10/24/06

**BURNED-AREA REPORT**

(Reference FSH 2509.13)

**PART I - TYPE OF REQUEST****A. Type of Report**

- ☒ 1. Funding request for estimated emergency stabilization funds  
☐ 2. Accomplishment Report  
☐ 3. No Treatment Recommendation

**B. Type of Action**

- ☒ 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)  
☐ 2. Interim Report # \_\_\_\_\_  
    ☐ Updating the initial funding request based on more accurate site data or design analysis  
    ☐ Status of accomplishments to date  
☐ 3. Final Report (Following completion of work)

**PART II - BURNED-AREA DESCRIPTION**A. Fire Name: Columbia ComplexB. Fire Number: OR-UMF-000411C. State: WAD. County: COLUMBIA, WALLA WALLA, GARFIELDE. Region: 6F. Forest: UMATILLA

G. District: PM, WW\_

H. Fire Incident Job Code: P6C6XXI. Date Fire Started: Aug. 21, 2006J. Date Fire Contained: 10/15/06K. Suppression Cost: as of 10/4 \$35, 400, 000**L. Fire Suppression Damages Repaired with Suppression Funds**

1. Fireline waterbarred (miles):  
2. Fireline seeded (miles):  
3. Other (identify):

M. Watershed Number: 1706010706; 1707010203N. Total Acres Burned: 109,402

NFS Acres(47895 ) Other Federal (3941 ) State (4185 ) Private ( 54765 )

O. Vegetation Types: Timbered portions include Ponderosa pine/bunchgrass to moist Grand fir associations. Considerable portions of the lower elevations are cropland, and scattered native and plantation pine.

P. Dominant Soils: : Klicker, Anatone, Harl, Limberjim, Stevenscreek

Q. Geologic Types: Columbia River Basalt group, primarily Grande Ronde flows

R. Miles of Stream Channels by Order or Class:

210 miles total

S. Transportation System (FS)

Trails: 30.4 miles

Roads: 109 miles

### **PART III - WATERSHED CONDITION**

A. Burn Severity (acres): 41510 (low) 14218 (moderate) 1182 (high)

B. Water-Repellent Soil (acres): 0

C. Soil Erosion Hazard Rating (acres):  
77220 (low) 27511 (moderate) 4593 (high)

D. Erosion Potential: 3 tons/acre

E. Sediment Potential: 1785 cubic yards / square mile

### **PART IV - HYDROLOGIC DESIGN FACTORS**

A. Estimated Vegetative Recovery Period, (years): 4

B. Design Chance of Success, (percent): 60-90

C. Equivalent Design Recurrence Interval, (years): 5 & 10

D. Design Storm Duration, (hours): 24

E. Design Storm Magnitude, (inches): 0.34 (NOAA Atlas 10yr)

F. Design Flow, (cubic feet / second/ square mile): 22 (5yr)

G. Estimated Reduction in Infiltration, (percent): 64

H. Adjusted Design Flow, (cfs per square mile): 33 (10yr)

### **PART V - SUMMARY OF ANALYSIS**

A. Describe Critical Values/Resources and Threats:

Areas of High and Moderate severity with little to no understory vegetation prior to burn adjacent to known noxious weed sites. Most of these areas are on steep slopes; area above and below critical section of Road 46 (primary road) unstable with headcutting potential threatening road. Trails burned in high severity areas with destruction of drainage structures; portions include burning of wood support of treadway (undercut) in wilderness sections adjacent to Panjab Creek.

B. Emergency Treatment Objectives:

Reduction of spread of noxious weeds in areas of high risk. Reduction of erosion and runoff effects in select drainages with at-risk investments, including sections of roads and trails.

C. Probability of Completing Treatment Prior to Damaging Storm or Event:

Land 80 % Channel     % Roads/Trails 80 % Protection/Safety     %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	70	90	90
Channel			
Roads/Trails	80	90	90
Protection/Safety			

E. Cost of No-Action (Including Loss):

F. Cost of Selected Alternative (Including Loss): **\$209, 074**

G. Skills Represented on Burned-Area Survey Team:

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input type="checkbox"/> Geology	<input type="checkbox"/> Range	<input type="checkbox"/>
<input checked="" type="checkbox"/> Forestry	<input type="checkbox"/> Wildlife	<input type="checkbox"/> Fire Mgmt.	<input checked="" type="checkbox"/> Engineering	<input type="checkbox"/>
<input type="checkbox"/> Contracting	<input type="checkbox"/> Ecology	<input checked="" type="checkbox"/> Botany	<input checked="" type="checkbox"/> Archaeology	<input type="checkbox"/>
<input checked="" type="checkbox"/> Fisheries	<input checked="" type="checkbox"/> Research	<input type="checkbox"/> Landscape Arch	<input checked="" type="checkbox"/> GIS	

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H. **Treatment Narrative:**

(Describe the emergency treatments, where and how they will be applied, and what they are intended to do. This information helps to determine qualifying treatments for the appropriate funding authorities. For seeding treatments, include species, application rates and species selection rationale.)

Land Treatments:

**Aerial seeding** of high severity and adjacent moderate severity areas adjacent or within known noxious weed sites with local native species. Map of treatment sites is included or will be sent separately. Species mixes and rates included in attachments. Grass establishment will provide enhanced erosion control next growing season and beyond. (Weed treatments is anticipated for next and subsequent years and will be included in an interim request in the next calendar year.)

**Mulching** above and below 46 road section is intended to reduce rate of runoff, stabilize surface and improve erosion resistance, and enhance establishment of stabilizing vegetation.

Channel Treatments:

Roads and Trail Treatments:

Road segments need drainage improvements, ditch-cleaning, storm-hardening and burned culvert replacement. Trails have burned support in sections; drainage replacement (waterbars) in other sections. Treatments are intended to reduce the risk of fill failure and/or surface loss and resultant deposition in adjacent anadromous fish habitat, including culvert lost to burning (plastic), and provide storm hardening to withstand potential high flows in select areas below high burn severity areas.

Protection/Safety Treatments:

**I. Monitoring Narrative:**

(Describe the monitoring needs, what treatments will be monitored, how they will be monitored, and when monitoring will occur. A detailed monitoring plan must be submitted as a separate document to the Regional BAER coordinator.)

Monitoring of treatment installation and effectiveness is planned; details will be forthcoming in a separate document.

# Part VI – Emergency Stabilization Treatments and Source of Funds

Initial

<b>A. Land Treatments</b>										
Seeding, native, weed	ac	91.35	1707	\$155,934	\$0		\$0		\$0	\$155,934
Admin. Costs				\$7,800	\$0		\$0		\$0	\$7,800
Hydromulch 46 Rd sec	ac	3000	5	\$15,000	\$0		\$0		\$0	\$15,000
Transportation;storage				\$2,000						\$2,000
Transportation;storage				\$0	\$0		\$0		\$0	\$0
Subtotal Land Treatments				\$180,734	\$0		\$0		\$0	\$180,734
<b>B. Channel Treatments</b>										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Channel Treat.				\$0	\$0		\$0		\$0	\$0
<b>C. Road and Trails</b>										
Road 46 section	miles	4700	1	\$4,700	\$0		\$0		\$0	\$4,700
Rd 4713	miles	1750	2	\$3,500	\$0		\$0		\$0	\$3,500
Admin. costs				\$1,640	\$0		\$0		\$0	\$1,640
Trails- recon. support	feet	7.5	1200	\$9,000						\$9,000
Trails- drainage, stabil	miles	1900	5	\$9,500						\$9,500
Insert new items above this line!					\$0					
Subtotal Road & Trails				\$28,340	\$0		\$0		\$0	\$28,340
<b>D. Protection/Safety</b>										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Structures				\$0	\$0		\$0		\$0	\$0
<b>E. BAER Evaluation</b>										
Team expenses				---	\$25,000		\$0		\$0	\$25,000
Insert new items above this line!				---	\$0		\$0		\$0	\$0
Subtotal Evaluation				---	\$25,000		\$0		\$0	\$25,000
<b>F. Monitoring</b>										
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Monitoring				\$0	\$0		\$0		\$0	\$0
<b>G. Totals</b>										
Previously approved				\$209,074	\$25,000		\$0		\$0	\$234,074
Total for this request				\$209,074						

## PART VII - APPROVALS

1. \_\_\_\_\_  
Forest Supervisor (signature)

\_\_\_\_\_  
Date

2. \_\_\_\_\_  
Regional Forester (signature)

\_\_\_\_\_  
Date