

Date of Report: 05/04/2005

**BURNED-AREA REPORT**  
(Reference FSH 2509.13)**PART I - TYPE OF REQUEST**

## A. Type of Report

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

## B. Type of Action

- ☐ 1. Initial Request (Best estimate of funds needed to complete eligible rehabilitation 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: Ski RunB. Fire Number: P3AX0HC. State: NMD. County: LincolnE. Region: 03F. Forest: LincolnG. District: Smokey BearH. Date Fire Started: 10/28/03I. Date Fire Contained: 11/02/2003J. Suppression Cost: \$828,000

- K. Fire Suppression Damages Repaired with Suppression Funds  
    1. Fireline waterbarred (miles): 6 miles  
    2. Fireline seeded (miles):  
    3. Other (identify):

L. Watershed Number: 13060008020

M. Total Acres Burned: 300  
    NFS Acres(295 )    Other Federal ( 5 )    State ( )    Private ( )

N. Vegetation Types:

O. Dominant Soils: Lithic Argiborolls, Pachic Cryoborolls, Pachic Udic ArgiborollsP. Geologic Types: Volcanic mix

Q. Miles of Stream Channels by Order or Class: 1 1/2 miles 1<sup>st</sup> order

R. Transportation System

Trails: 3 miles      Roads: 5 miles

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

A. Burn Severity (acres): 100 (low)    130 (moderate)    70 (high)

B. Water-Repellent Soil (acres): 0

C. Soil Erosion Hazard Rating (acres):  
      0 (low)    0 (moderate)    300 (high)

D. Erosion Potential: 60 tons/acre

E. Sediment Potential: 45,000 cubic yards / square mile

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

A. Estimated Vegetative Recovery Period, (years): 2

B. Design Chance of Success, (percent): 70

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

D. Design Storm Duration, (hours): 24

E. Design Storm Magnitude, (inches): 3.4

F. Design Flow, (cubic feet / second/ square mile): 800 cfs/mi<sup>2</sup>

G. Estimated Reduction in Infiltration, (percent): 10

H. Adjusted Design Flow, (cfs per square mile): 700 cfs/mi<sup>2</sup>

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

A. Describe Watershed Emergency:

Values at risk include health, life, and property. Potential water quality contamination to Eagle Creek where water diversion structures are located approximately 2 miles downstream of Carlton Canyon confluence with Eagle Creek where the city of Ruidoso diverts some of the spring runoffs; road hazard risk on a 1/3<sup>rd</sup> mile section of road 127 (the only road that leads to and from Ski Apache Resort) from upslope materials involving loose rocks, soil, ash, and woody debris; channel degradation to Carlton Canyon channel from downstream scouring of water, ash, sediment, and woody/rock debris; and the potential for a road washout of Eagle Creek road (road 127A) at the mouth of the confluence of Carlton Canyon and Eagle Creek.

B. Emergency Treatment Objectives:

\*80 acres - grass seeding over moderate and severe burned areas.

\*10 acres - log erosion barriers in strategic key severe burned areas.

\*50 acres – aerial straw mulching on severe burned areas.

\*The installment of 9 channel structures (e.i. trashracks, sediment retention structures) along the 1.5 mile stretch of Carlton Canyon.

C. Probability of Completing Treatment Prior to First Major Damage-Producing Storm:

Land 80 % Channel 80 % Roads 60 % Other     %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	60	70	80
Channel	60	70	80
Roads			
Other			

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

F. Cost of Selected Alternative (Including Loss):

G. Skills Represented on Burned-Area Survey Team:

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input type="checkbox"/> Geology	<input checked="" type="checkbox"/> Range	<input type="checkbox"/>
<input checked="" type="checkbox"/> Forestry	<input checked="" type="checkbox"/> Wildlife	<input checked="" type="checkbox"/> Fire Mgmt.	<input type="checkbox"/> Engineering	<input type="checkbox"/>
<input checked="" type="checkbox"/> Contracting	<input type="checkbox"/> Ecology	<input type="checkbox"/> Botany	<input checked="" type="checkbox"/> Archaeology	<input type="checkbox"/>
<input type="checkbox"/> Fisheries	<input 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: Will include log erosion barriers on 10 acres of the severe burned area, seed grass on 80 acres containing moderate and severe burned areas within the 300 acre perimeter.

Channel Treatments: Construct sediment retention structures in Carlton Canyon.

Roads and Trail Treatments: - State maintenance responsibility on HWY 117

Structures: none

#### I. Monitoring Narrative:

Will monitor seeding in the spring of 2004 and reseed if necessary, and monitor channel structures for maintenance and performance especially after the first storm event in 2004.

#### Post-treatment Narrative and Results (March 2005).

**Seeding** has been successful where seeds germinated during Spring of 2004 and throughout the year.

**Sediment retention structures** in Carlton Canyon are full with sediment, ash, and minor debris. Will require cleaning.

#### J: Final Accomplishment Report (May 2005)

Treatment and Cost Shown in Part VI. Cost shown for aerial seeding do not represent the actual cost since majority of cost inadvertently charged to a different fund code for aerial seeding, mulching, and log erosion barriers.

The original plan was to do 80 acres of seeding, 10 acres of log erosion barriers, 50 acres of aerial straw mulching and 9 channel structures. As shown in the spreadsheet in Part VI, it appears that the only thing that got done was the channel structures—for those other treatments you need to show the acres (and a good guess at unit cost and total cost) for those other treatments. Use the column labeled 'other \$' to put in total cost for each treatment that BAER didn't pay for. If any of these 4 treatments didn't get done at all, use this space to explain why it was decided not to implement them. Also, as with Peppin, your transaction register shows that \$8918 was spent against the ski run h-code. Add the estimated BAER assessment costs (\$5,000) and your bottom line (in the WFSU SULT \$ column) should be at least \$13,918.

## Part VI – Emergency Rehabilitation Treatments and Source of Funds by Land Ownership

Line Items	Units	Unit Cost	NFS Lands		Other \$	Other Lands				All Total \$
			# of Units	WFSU SULT \$		# of units	Fed \$	# of Units	Non Fed \$	
<b>A. Land Treatments</b>										
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
<i>Subtotal Land Treatments</i>				0.00			\$0		\$0	0.00
<b>B. Channel Treatments</b>										
Sediment structures	ea	9	697.17	6,274.53			\$0		\$0	6,274.53
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
<i>Subtotal Channel Treat.</i>				6,274.53			\$0		\$0	6,274.53
<b>C. Road and Trails</b>										
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
<i>Subtotal Road &amp; Trails</i>				0.00			\$0		\$0	0.00
<b>D. Structures</b>										
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
				0.00			\$0		\$0	0.00
<i>Subtotal Structures</i>				0.00			\$0		\$0	0.00
<b>E. BAER Evaluation</b>										
	ea	1	5000	5,000.00			\$0		\$0	5,000.00
				0.00			\$0		\$0	0.00
<b>F. Monitoring</b>							\$0		\$0	0.00
<b>G. Totals</b>				11,274.61			\$0		\$0	11,274.61

## PART VII - APPROVALS

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

\_\_\_\_\_  
Date

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

\_\_\_\_\_  
Date