

Date of Report: 6/13/12

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: Lake Creek B. Fire Number: UT-DIF-120178
C. State: Utah D. County: Garfield
E. Region: 4 - Intermountain F. Forest: Dixie
G. District: Escalante H. Fire Incident Job Code: P4GWS9
I. Date Fire Started: June 4, 2012 J. Date Fire Contained: June 13, 2012
K. Suppression Cost: \$375,000
L. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 1.2
2. Fireline seeded (miles): 0
3. Other (identify):
M. Watershed Number: 140700050202 Sweetwater Creek (Escalante River Drainage)
N. Total Acres Burned: 1,093 acres
NFS Acres(1,093) Other Federal () State () Private ()
O. Vegetation Types: Oakbrush, Ponderosa Pine, Mixed Conifer and Aspen
P. Dominant Soils: Very deep soils with 10 to 40 percent slopes.
Q. Geologic Types: Landslide debris from tertiary volcanic rocks.

R. Miles of Stream Channels by Order or Class: 1.3 miles of Lake Creek, 0.1 miles Grimes Creek and 0.5 miles on intermittent drainages

S. Transportation System

Trails: 0 miles Roads: 5 miles (FR 153, 566, 720, 721 and 494)

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 550 (unburned and low) 530 (moderate) 13 (high)

B. Water-Repellent Soil (acres): 0 - No hydrophobicity found during field assessment

C. Soil Erosion Hazard Rating (acres):
350 (low) 743 (moderate) 0 (high)

D. Erosion Potential: less than 3 tons/acre

E. Sediment Potential: NA cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years): 5 years for oakbrush recovery

B. Design Chance of Success, (percent): NA, No Treatment Recommended

C. Equivalent Design Recurrence Interval, (years): NA, No Treatment Recommended

D. Design Storm Duration, (hours): NA, No Treatment Recommended

E. Design Storm Magnitude, (inches): NA, No Treatment Recommended

F. Design Flow, (cubic feet / second/ square mile): NA, No Treatment Recommended

G. Estimated Reduction in Infiltration, (percent): NA, No Treatment Recommended

H. Adjusted Design Flow, (cfs per square mile): NA, No Treatment Recommended

PART V - SUMMARY OF ANALYSIS

A. Describe Critical Values/Resources and Threats:

Human Life and Safety

- Probability of Damage or Loss – Unlikely Occurrence (<10%)
- Magnitude of Consequences – Moderate (injury to humans possible)
- Risk – Low

If human life and safety risks increase from post fire hazards, this area can be closed. Many snags within the fire perimeter near roads have already been felled and similar prescribed burn affects adjacent to the Lake

Creek fire have not shown adverse flash flood safety concerns. No treatments recommended for the protection of human life and safety.

Property

- Probability of Damage or Loss – Unlikely Occurrence (<10%) for Roads, Possible Occurrence (10-50%) for Fences
- Magnitude of Consequences – Minor to Moderate
- Risk – Low to Intermediate

The primary property concerns deals with Forest Road 566 and 153 and allotment fence. Primary travel routes have the proper drainage to handle the minor anticipated increase in runoff. Runoff levels should be consistent with other prescribed fire in the area and they have not shown adverse reaction to roads from accelerated flow. No treatments are recommended for the protection of forest roads. Allotment fence has been comprised in numerous areas throughout the fire. No treatments are recommended for fence reconstruction as it does not merit an emergency response. Actions for management of livestock in this area could consider limiting utilization and/or active livestock herding until fire rehabilitation funding could be acquired in this area for fence repair.

Natural Resources – Agricultural Water Supply

- Probability of Damage or Loss – Possible Occurrence (10-50%)
- Magnitude of Consequences – Minor
- Risk – Low

Sediment from burned areas next to Lake Creek (a canal constructed from diverting East Sand Creek, Grimes Creek and McGath Lake) could increase the turbidity of the water over the summer. Much of the areas that are direct sources to Lake Creek have low to moderate burn severity and the remaining coarse woody debris and ground cover will assist in protecting agricultural water source. No treatments are recommended for the protection of the agricultural water supply.

Natural Resources – Soil Productivity and Hydrologic Function

- Probability of Damage or Loss – Unlikely Occurrence (<10%)
- Magnitude of Consequences – Minor
- Risk – Very Low

This fire created a mosaic of dominantly unburned, low and moderate severity with little complete canopy removal. Needle cast from pine is expected to protect many areas where ground cover is lacking and the burn severity ranged from moderate to high. Areas adjacent to the Lake Creek fire have had prescribed fire similar in affect and have not had signs of excessive erosion or loss in hydrologic function. No treatments are recommended for the protection for soil productivity or hydrologic function.

Natural Resources – Critical or Suitable Occupied Habitat for Federally Listed T&E

- Probability of Damage or Loss – Unlikely Occurrence (<10%)
- Magnitude of Consequences – Minor
- Risk – Very Low

No federally listed T&E species are found near the Lake Creek Fire and no treatments are needed.

Natural Resources – Invasive Species or Noxious Weeds

- Probability of Damage or Loss – Possible Occurrence (10-50%)
- Magnitude of Consequences – Minor to Moderate
- Risk – Low to Intermediate

Invasive and noxious weed monitoring is needed in this area and should be conducted with allotment management inspection. Treatments could be warranted if invasive and noxious weed concerns are

discovered. Currently no known noxious weed locations are found with the Lake Creek fire perimeter and ICP location and no treatments are recommended at this time.

Cultural and Heritage Resources

- Probability of Damage or Loss – Unlikely Occurrence (<10%)
- Magnitude of Consequences – Minor
- Risk – Very Low

No known sites are within the fire perimeter and the low to moderate burn severity is not expected to have an adverse impact to any undiscovered cultural/heritage resources in the area. No treatments are recommended at this time.

B. Emergency Treatment Objectives: Not applicable, no treatment recommended.

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

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

D. Probability of Treatment Success, Not applicable, no treatment recommended.

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

E. Cost of No-Action (Including Loss): Not applicable, no treatment recommended.

F. Cost of Selected Alternative (Including Loss): Not applicable, no treatment recommended.

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

Team Leader: Rich Jaros

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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:

Not applicable, no treatment recommended.

Channel Treatments:

Not applicable, no treatment recommended.

Roads and Trail Treatments:

Not applicable, no treatment recommended.

Protection/Safety Treatments:

Not applicable, no treatment recommended.

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.)

Not applicable, no monitoring proposed.

Part VI – Emergency Stabilization Treatments and Source of Funds Final

		NFS Lands				Other Lands				All
		Unit	# of		Other	# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	BAER \$	\$	units	\$	Units	\$	\$
A. Land Treatments										
				\$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 Land Treatments				\$0	\$0		\$0		\$0	\$0
B. Channel Treatments										
				\$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
C. Road and Trails										
				\$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 Road & Trails				\$0	\$0		\$0		\$0	\$0
D. Protection/Safety										
				\$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
E. BAER Evaluation										
Assessment				\$3,500	\$0		\$0		\$0	\$0
Insert new items above this line!				---	\$0		\$0		\$0	\$0
Subtotal Evaluation				---	\$0		\$0		\$0	\$0
F. Monitoring										
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Monitoring				\$0	\$0		\$0		\$0	\$0
G. Totals				\$0	\$0		\$0		\$0	\$0
Previously approved										
Total for this request				\$0						

PART VII - APPROVALS

1. Kevin R. Schulkoski 6/13/2012
(Acting) Forest Supervisor (signature) Date

2. _____ _____
Regional Forester (signature) Date