

## BURNED-AREA REPORT

(Reference FSH 2509.13)

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

☒ 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)

<b>A. Fire Name:</b> Swakane	<b>B. Fire Number:</b> WA-SES-249
<b>C. State:</b> Washington	<b>D. County:</b> Chelan
<b>E. Region:</b> 06	<b>F. Forest:</b> Okanogan Wenatchee
<b>G. District:</b> Entiat	<b>H. Fire Incident Job Code:</b> PNKFW9
<b>I. Date Fire Started:</b> 7/10/2010	<b>J. Date Fire Contained:</b> 8/12/2010
<b>K. Suppression Cost:</b> \$ 3,185,935, to date	

1. **Fireline waterbarred (miles):** not yet completed
2. **Fireline seeded (miles):** not yet completed
3. **Other (identify):** Weed treatments – not yet completed

**N. Total Acres Burned:** 14,721 (Fire Perimeter – 19,376 aacres)  
**[7399] NFS Acres [1049] Other Federal [ 5540] State [ 733] Private**

1

**P. Dominant Soils:** mesic or frigid Lithic Ultic Haploxerolls

**Q. Geologic Types:** Swakane Biotite Gneiss (Kswg)

**R. Miles of Stream Channels by Order or Class:** 5 miles <10%, 59 miles >10%

**S. Transportation System**

**Trails:** 0 miles      **Roads:** 33.9 miles

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

**A. Burn Severity (acres):** 9620 (low)      5078 (moderate)      23 (high)

**B. Water-Repellent Soil (acres):** 1000 (estimated)

**C. Soil Erosion Hazard Rating (acres):** 2857 (low)      7528 (moderate)      4349 (high)

**D. Erosion Potential:** 7 – 14 tons/acre

**E. Sediment Potential:** 6000 – 9000 cubic yards / square mile

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

**A. Estimated Vegetative Recovery Period, (years):** 5

**B. Design Chance of Success, (percent):** 80

**C. Equivalent Design Recurrence Interval, (years):** 25

**D. Design Storm Duration, (hours):** 1

**E. Design Storm Magnitude, (inches):** 0.82

**F. Design Flow, (cubic feet / second/ square mile):** 15

**G. Estimated Reduction in Infiltration, (percent):** 35

**H. Adjusted Design Flow, (cfs per square mile):** 85

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

**Describe Critical Values/Resources and Threats (narrative):** Thompson Clover RNA while afire adapted species competition from russian knapweed also released by the fire could overwhelm this 100 acre RNA.

Highway 97A/Railroad Spur– steep burned drainages (most specifically Tenas George Canyon) could runout and deposit debris and sediments on the road and adjacent ail line. Tenas George Canyon did produce a runoff event on 8/4/2010 as a result of a 30 minute event with an estimated 1.25” of accumulated precipitation. This event occurred prior to containment of the fire. Highwas 97A and the rail line were closed for 3 days.

Private homes/drives – potential for post fire flows to cut of access and/or threaten home scattered below the east flank of the burned area. One home was rendered uninhabitable by the event of 8/2/2010. With the one exception, burned areas tributary to the rest of the resedences are not Forest Service lands.

Big game winter range – loss of forage due to fire. State responsibility

Beaver Dam complexes – functionally rich areas supporting wetland complexes used by a varaiety of species. Possible loss of habitats associated with breaches cause by post-fire runoff.

### **B. Emergency Treatment Objectives (narrative):**

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

**Land 80%   Channel N/A%   Roads/Trails N/A%   Protection/Safety 50%**

### **D. Probability of Treatment Success**

	<b>Years after Treatment</b>		
	<b>1</b>	<b>3</b>	<b>5</b>
<b>Land</b>	80	70	70
<b>Channel</b>	N/A	N/A	N/A
<b>Roads/Trails</b>	N/A	N/A	N/A
<b>Protection/Safety</b>	50	80	80

**E. Cost of No-Action (Including Loss):** \$25,000

**F. Cost of Selected Alternative (Including Loss):** \$19,300

**G. Skills Represented on Burned-Area Survey Team:**

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

**Team Leader:** Greg Kuyumjian

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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:** Thompson's Clover RNA; treat new weed seedlings and sprouts within the RNA, the road within the fire line to the RNA and adjacent slopes by spot spraying with picloram (covered by Forest-Wide EA) to prevent the spread of Dalmation toadflax into the RNA. Handgubbing, if necessary in lieu of picloram to prevent accidental spraying of Thomson's Clover plants. Two applications; fall of 2010 and spring of 2011.

**Weed survey;** Survey habitats known to be vulnerable to weed invasion to allow planning for future weed treatment needs. Target moderate burned areas.

**Note;** Fire suppression funds will be used for weed control and prevention on opened roads, hand and dozer lines, and other disturbed ground associated with suppression activities.

**Channel Treatments:** N/A

**Roads and Trail Treatments:** N/A

**Protection/Safety Treatments:** Information sharing and coordination with NRCS, WSDOT and DNR.

#### 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.)**

A weed report that documents treatment and survey results covering one year from containment (two treatment applications and one survey)

**Part VI – Emergency Stabilization Treatments and Source of Funds****Interim #**

Line Items	Units	Unit Cost	NFS Lands		Other \$	Other Lands		All Total \$
			# of Units	BAER \$		# of units	Fed \$	
<b>A. Land Treatments</b>								
Weed Treatment (RNA)	Day	550	10	\$5,500	\$0		\$0	\$5,500
Weed Survey	Day	300	10	\$3,000	\$0		\$0	\$3,000
				\$0	\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0
<b>Subtotal Land Treatments</b>				\$8,500	\$0		\$0	\$8,500
<b>B. Channel Treatments</b>								
None				\$0	\$0		\$0	\$0
				\$0	\$0		\$0	\$0
				\$0	\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0
<b>Subtotal Channel Treat.</b>				\$0	\$0		\$0	\$0
<b>C. Road and Trails</b>								
None				\$0	\$0		\$0	\$0
				\$0	\$0		\$0	\$0
				\$0	\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0
<b>Subtotal Road &amp; Trails</b>				\$0	\$0		\$0	\$0
<b>D. Protection/Safety</b>								
External Coordination	Day	400	3	\$1,200	\$0		\$0	\$1,200
				\$0	\$0		\$0	\$0
				\$0	\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0
<b>Subtotal Structures</b>				\$1,200	\$0		\$0	\$1,200
<b>E. BAER Evaluation</b>								
				---			\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0	\$0
<b>Subtotal Evaluation</b>				---	\$0		\$0	\$0
<b>F. Monitoring</b>								
Weed Report	Day	300	2	\$600	\$0		\$0	\$600
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0
<b>Subtotal Monitoring</b>				\$600	\$0		\$0	\$600
<b>G. Totals</b>				\$10,300	\$0		\$0	\$10,300
Previously approved								
Total for this request				\$10,300				

**PART VII - APPROVALS**

1. /s/Clinton D. Kohl  
Forest Supervisor (signature) 9/29/10  
Date
2. /s/Calvin N. Joyner (for)  
Regional Forester (signature) 10/4/10  
Date