

Date of Report: November 13, 2023**BURNED-AREA REPORT****PART I - TYPE OF REQUEST****A. Type of Report**

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

B. Type of Action

- ☒ 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)
☐ 2. Interim Request # _____
☐ Updating the initial funding request based on more accurate site data or design analysis

PART II - BURNED-AREA DESCRIPTION**A. Fire Name:** Valentine Fire**B. Fire Number:** AZ-TNF-001315**C. State:** Arizona**D. County:** Gila**E. Region:** 03**F. Forest:** Tonto NF**G. District:** Pleasant Valley**H. Fire Incident Job Code:** P3QK73 (0312)**I. Date Fire Started:** August 18, 2023**J. Date Fire Contained:****K. Suppression Cost:** \$9.4 million**L. Fire Suppression Damages Repaired with Suppression Funds (estimates):**

- Fireline repaired (miles):** less than 1/2 mile was put in to cut switch backs off on 291 road and tie in 291 to fuel break on 955 road
- Other (identify):**

M. Watershed Numbers:*Table 1: Acres Burned by Watershed*

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
150601030401	Parallel Canyon-Cherry Creek	13836.74	6	0.04%
150601050202	Gordon Canyon	16180.15	106	0.66%
150601050205	Haigler Creek	32788.56	9525	29.05%

N. Total Acres Burned:*Table 2: Total Acres Burned by Ownership*

OWNERSHIP	ACRES
NFS	9643
OTHER FEDERAL (LIST AGENCY AND ACRES)	
STATE	
PRIVATE	
TOTAL	9643

O. Vegetation Types: Ponderosa Pine Forest is dominant with some PJ Woodland-Forest transitions

P. Dominant Soils: Soils are dominated by Udic Haplustalfs and Udic Haplustepts

Q. Geologic Types: sandstone, shale, granite, and other mixed sedimentary sources

R. Miles of Stream Channels by Order or Class:*Table 3: Miles of Stream Channels by Order or Class*

STREAM TYPE	MILES OF STREAM
PERENNIAL	1.2
INTERMITTENT	7.3
EPHEMERAL	
OTHER (DEFINE)	

S. Transportation System:

Trails: National Forest (miles): 5.8

Other (miles):

Roads: National Forest (miles):

Other (miles):

PART III - WATERSHED CONDITION**A. Burn Severity (acres):***Table 4: Burn Severity Acres by Ownership*

Soil Burn Severity	NFS	Other Federal (List Agency)	State	Private	Total	% within the Fire Perimeter
Unburned	3218				3218	33
Low	6149				6148	64
Moderate	256				256	3
High	20				20	<1
Total	9643	N/A	N/A	N/A	9643	100

B. Water-Repellent Soil (acres): 120 acres (High SBS was water repellent and there was patchy water repellence in the Moderate SBS, it was at or near the surface in all instances)

C. Soil Erosion Hazard Rating: Slight 387ac., Moderate 2779ac., Severe 6477ac.

D. Erosion Potential: 4.67 tons/ac (10% probability) 2.42 tons/acre (30% probability)

E. Sediment Potential: 45,214.7 tons (10% probability) 23,899 tons (30% probability)

F. Estimated Vegetative Recovery Period (years): 2-5 yrs

G. Estimated Hydrologic Response (brief description): HEC-HMS model was run for the 50%, 20% and 10% chance winter (6 hr) storm for the Haigler Creek subwatershed. Flows in Haigler Creek directly below the burn scar are anticipated to be significant (100%-200%) of pre-fire flows for the 50% chance storm but will attenuate to minimal (<100% increase from pre fire) downstream on Haigler Creek to the outlet of the subwatershed. All flows from the 20% and 10% chance events are minimal compared to pre-fire flows and none of the 50% chance event flows post fire exceed the expected flows in a pre-fire 20% chance event, i.e., the 50% chance storm post fire will still produce flows like pre-fire.

PART V - SUMMARY OF ANALYSIS

Introduction/Background

A. Describe Critical Values/Resources and Threats (narrative):

Table 5: Critical Value Matrix

Probability of Damage or Loss	Magnitude of Consequences		
	Major	Moderate	Minor
	RISK		
Very Likely	Very High	Very High	Low
Likely	Very High	High	Low
Possible	High	Intermediate	Low
Unlikely	Intermediate	Low	Very Low

1. Human Life and Safety (HLS):

Probability of damage or loss near the Haigler Creek campgrounds is unlikely but the magnitude of consequences is major, resulting in intermediate risk to life and safety.

2. Property (P):

3. Natural Resources (NR):

4. Cultural and Heritage Resources:

B. Emergency Treatment Objectives:

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

Land: NA

Channel: NA

Roads/Trails: NA

Protection/Safety: Good

D. Probability of Treatment Success

Table 6: Probability of Treatment Success

	1 year after treatment	3 years after treatment	5 years after treatment
Land			
Channel			
Roads/Trails			
Protection/Safety	Good	Good	Good

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

F. Cost of Selected Alternative (Including Loss): \$1152

G. Skills Represented on Burned-Area Survey Team:

- | | | | | |
|---|---|--------------------------------------|-----------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> Soils | <input checked="" type="checkbox"/> Hydrology | <input type="checkbox"/> Engineering | <input type="checkbox"/> GIS | <input type="checkbox"/> Archaeology |
| <input type="checkbox"/> Weeds | <input type="checkbox"/> Recreation | <input type="checkbox"/> Fisheries | <input type="checkbox"/> Wildlife | |

☒ Soils ☒ Hydrology ☐ Engineering ☐ GIS ☐ Archaeology
☐ Other:

Team Leader: Mike Martinez

Email: michael.a.martinez@usda.gov

Phone(s) 602-499-5818

Forest BAER Coordinator: Kelly Mott Lacroix

Email: kelly.mottlacroix@usda.gov

Phone(s): 480-621-6218

Team Members: *Table 7: BAER Team Members by Skill*

Skill	Team Member Name
<i>Team Lead(s)</i>	Michael Martinez
<i>Soils</i>	Kristen Meier
<i>Hydrology</i>	Kelly Mott Lacroix, Kaci Spooner
<i>Engineering</i>	
<i>GIS</i>	
<i>Archaeology</i>	
<i>Weeds</i>	
<i>Recreation</i>	
<i>Other</i>	

H. Treatment Narrative:

Land Treatments: None

Channel Treatments: None

Roads and Trail Treatments: None

Protection/Safety Treatments: Eight total hazard warning signs across the District to protect forest users at Haigler campgrounds, downstream areas, and along forest roads (see attached map).

I. Monitoring Narrative: Unit will confirm installation of signs.

PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS

Line Items	Units	Cost	Units	BAER \$	\$	units	\$	Units	\$	\$
A. Land Treatments										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Land Treatments</i>				\$0	\$0		\$0		\$0	\$0
B. Channel Treatments										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Channel Treatments</i>				\$0	\$0		\$0		\$0	\$0
C. Road and Trails										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Road and Trails</i>				\$0	\$0		\$0		\$0	\$0
D. Protection/Safety										
Warning Signs	48"x30"	179	3	\$537	\$0		\$0		\$0	\$537
	60"x42"	303	1	\$303						
	24"x24"	78	4	\$312	\$0		\$0		\$0	\$312
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Protection/Safety</i>				\$1,152	\$0		\$0		\$0	\$849
E. BAER Evaluation										
Initial Assessment	Report			\$7,500	\$0		\$0		\$0	\$0
					\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$7,500	\$0		\$0		\$0	\$0
F. Monitoring										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Monitoring</i>				\$0	\$0		\$0		\$0	\$0
G. Totals				\$1,152	\$0		\$0		\$0	\$849
Previously approved										
Total for this request				\$1,152						

PART VII - APPROVALS

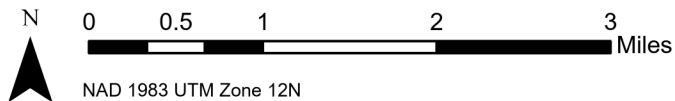
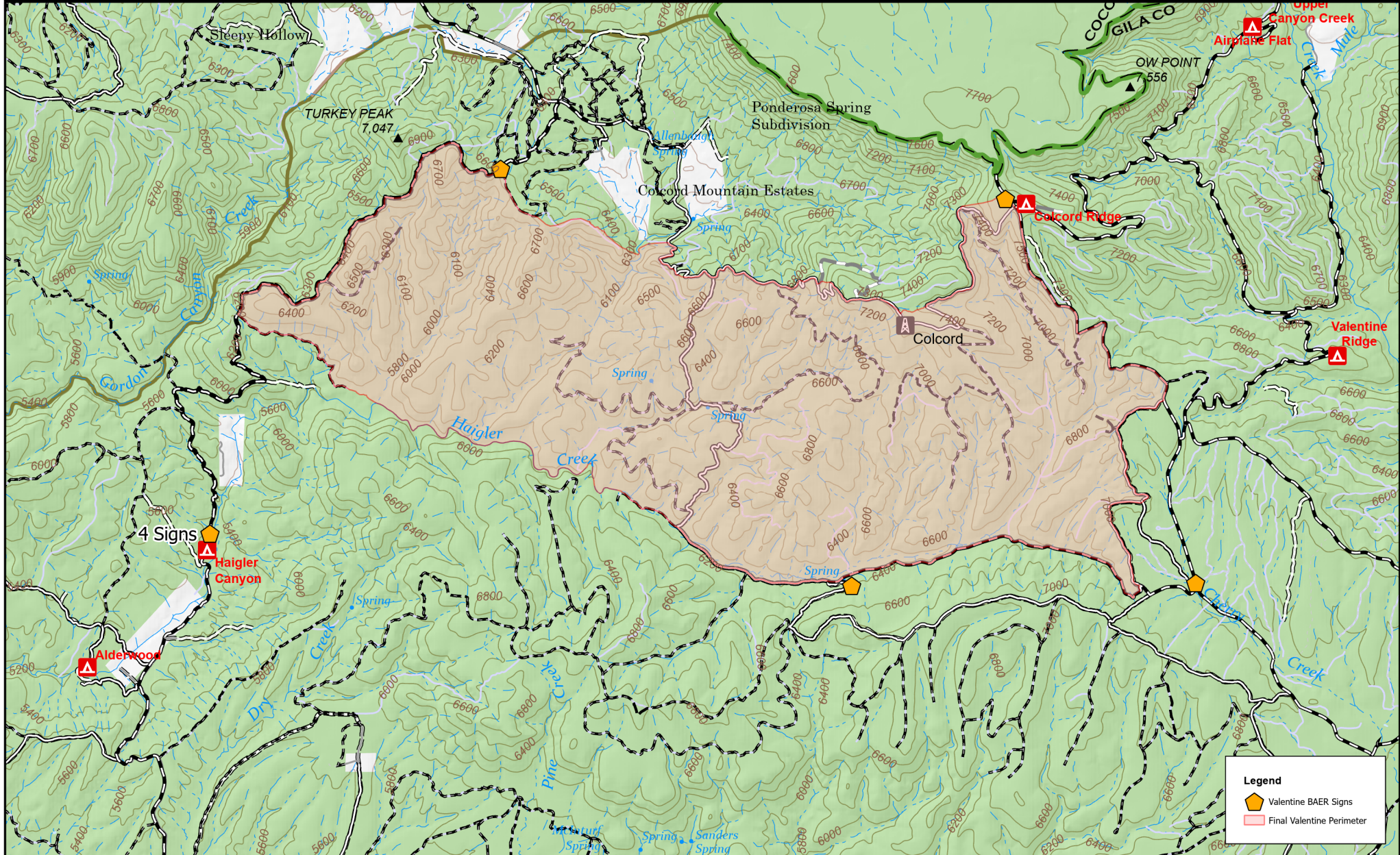
1. _____
 Forest Supervisor Date



Forest Service
U.S. DEPARTMENT OF AGRICULTURE

Valentine BAER Signs

Southwestern Region | Tonto National Forest



10/31/2023

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Data Sources: