

Date of Report: 9/24/2020**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: Goldfield****B. Fire Number: AZ-TNF-2414****C. State: Arizona****D. County: Maricopa****E. Region: Southwestern Region****F. Forest: Tonto NF****G. District: Mesa****H. Fire Incident Job Code: PNNEG3****I. Date Fire Started: 8/10/2020****J. Date Fire Contained: 8/14/2020****K. Suppression Cost:****L. Fire Suppression Damages Repaired with Suppression Funds (estimates):**

1. Fireline repaired (miles):
2. Other (identify):

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

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
150601060112	Jones Canyon	12000	739	6
	Bulldog Canyon-Salt			
150601060302	River	41854	999	2

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

OWNERSHIP	ACRES
NFS	1637
OTHER FEDERAL (LIST AGENCY AND ACRES)	

OWNERSHIP	ACRES
STATE	
PRIVATE	90
TOTAL	1727

O. Vegetation Types: Sonoran Desert**P. Dominant Soils: Ustic Haplargids and Lithic Ustic Torriorthents****Q. Geologic Types: Granite, Schist, and Conglomerate****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	0
INTERMITTENT	10.7
EPHEMERAL	0
OTHER (DEFINE)	

S. Transportation System:

Trails: National Forest (miles):

Other (miles):

Roads: National Forest (miles): 3.2

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	265			19	284	16
Low	1354			72	1426	83
Moderate	17			0	17	1
High	0			0	0	0
Total	1637			90	1727	100

B. Water-Repellent Soil (acres): 17**C. Soil Erosion Hazard Rating:**

Slight – 829 acres

Moderate – 638 acres

Severe – 179 acres

D. Erosion Potential: 0.12 ton/ac**E. Sediment Potential: 0.12 ton/ac****F. Estimated Vegetative Recovery Period (years): 5 years**

G. Estimated Hydrologic Response (brief description): Hydrologic modeling to public lands on the West side of the Bush Highway showed minimal increases in post fire runoff compared to pre fire. The greatest increase was at 7% during the 2yr peak flow interval and the lowest at 4% at the 100yr interval. In the Jones Canyon watershed, at subwatersheds specific to recreation concerns from the Goldfield fire, the greatest increase was 14% at the 2yr peak flow interval, 11% at the 5yr, 9% at the 10yr, 8% at the 25yr, and 6% at the 100yr interval. Total increased peak flows from pre burn to post burn at the bottom of the watershed, near the

Butcher Jones recreation site, showed a 28% increase at the 2yr return interval and 8% at the 100yr interval. Both models accounted for the Bush fire. A complete hydrologic analysis can be found in the Hydrological report for the Goldfield 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):** Our assessment is that the probability of damage or loss to life and safety is possible to likely, while the magnitude of consequences is moderate to major. This results in a risk to the life and safety critical value as intermediate to very high within and down gradient from the burned area due to potential for increased runoff debris flows and rolling rocks. Forest users could be at risk on roads, trails, and designated recreation sites within the area.
- 2. Property (P):** Pobrecito Boat staging area, Pobrecito OHV Staging area, Butcher Jones Recreation Site, FR13, FR1804, dispersed recreation sites, as well as illegal motorized access from Bush highway onto forest service lands ("The Rolls OHV Area")
- 3. Natural Resources (NR):** Further spread of buffelgrass, fountain grass. Sonoran desert tortoise and desert bighorn sheep. Likely no direct effects to sheep, but indirect temporary loss of forage species. Sonoran desert tortoise may have experienced direct effects, and indirectly through loss of cover and forage species.
- 4. Cultural and Heritage Resources:** One "Not Eligible" historic site.

B. Emergency Treatment Objectives: Based on the potential for damage or loss to critical values related to life and safety, we are recommending that warning signs be placed at major used access sites, including:

- The gate at Butcher Jones wash. Although this is a closed administrative gate, users often cut the fence next to the gate.
- Entrance to the Pobrecito OHV Staging area about 2.5 miles south of the intersection of Bush Hwy and State Route 87. This area is currently used for overflow parking.
- The Pobrecito OHV area. This area is currently part of Bush Fire post-fire conditions closure.
- The non-motorized dispersed recreation trail entrance on the west side of Bush Hwy 0.8 miles south of the intersection of Bush Hwy and State Route 87.

In order to slow the spread of invasive and noxious weeds across the burned area, we recommend early detection and rapid removal (EDRR) treatments.

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

Land:

Channel:

Roads/Trails:

Protection/Safety:

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			

E. Cost of No-Action (Including Loss):**F. Cost of Selected Alternative (Including Loss):****G. Skills Represented on Burned-Area Survey Team:**

- ☒ Soils ☒ Hydrology ☐ Engineering ☐ GIS ☐ Archaeology
☐ Weeds ☒ Recreation ☐ Fisheries ☐ Wildlife
☐ Other:

Team Leader: Michael Martinez**Email:** michael.a.martinez@usda.gov**Phone(s):** 602-225-5252**Forest BAER Coordinator: Kelly Mott Lacroix****Email:** kelly.mottlacroix@usda.gov**Phone(s):** 602-225-5210**Team Members:** Table 7: BAER Team Members by Skill

Skill	Team Member Name
<i>Team Lead(s)</i>	Mike Martinez
<i>Soils</i>	David Watson, Nori Koehler, Thomas Giambra
<i>Hydrology</i>	Alexander Makic
<i>Engineering</i>	
<i>GIS</i>	
<i>Archaeology</i>	
<i>Weeds</i>	Ryan Nicholas
<i>Recreation</i>	Kelly Finley
<i>Other</i>	Kelly Kessler

H. Treatment Narrative: In light of the Bush fire being a tremendous vector of weeds, which further stresses these fire scars, it is recommended that within EDRR, as well as the Soils and Invasive Species EA, for early detection and removal of noxious plants. We are requesting \$3,750 for detection and removal of species of concern such as buffelgrass, fountain grass, as well as stinket

Land Treatments:**Channel Treatments:****Roads and Trail Treatments:****Protection/Safety Treatments:****I. Monitoring Narrative:**

PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS

Line Items	Units	Unit Cost	NFS Lands		Other \$	# of units	Other Lands		Non Fed \$	All Total \$
			# of Units	BAER \$			Fed \$	# of Units		
A. Land Treatments										
Invasive Species EDRR		3750	1	\$3,750	\$0		\$0		\$0	\$3,750
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Land Treatments</i>				\$3,750	\$0		\$0		\$0	\$3,750
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										
Substantial Closure Gate	ea			\$0	\$0		\$0		\$0	\$0
Sign	ea	200	4	\$800	\$0		\$0		\$0	\$800
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Protection/Safety</i>				\$800	\$0		\$0		\$0	\$800
E. BAER Evaluation										
Initial Assessment	Report			---	\$0		\$0		\$0	\$0
		\$611	1	\$611	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$611	\$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				\$5,161	\$0		\$0		\$0	\$4,550
Previously approved										
Total for this request				\$5,161						

PART VII - APPROVALS

1. _____
 Forest Supervisor Date