

Date of Report: September 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: Medio****B. Fire Number: NM-SNF-000532****C. State: New Mexico****D. County: Santa Fe****E. Region: Southwestern****F. Forest: Santa Fe****G. District: Española****H. Fire Incident Job Code: P3NF34****I. Date Fire Started: 8/17/2020****J. Date Fire Contained: 9/13/2020****K. Suppression Cost: \$5,250,000 as of 9/13/2020****L. Fire Suppression Damages Repaired with Suppression Funds (estimates):**

1. Fireline repaired (miles): 15 (10 of which are handlines or existing trails)
2. Other (identify):

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

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
130201011201	Rio Nambé	31,686	3291	10
130201011204	Rio Chupadero-Pojoaque Creek	27,839	613	2

N. Total Acres Burned: 3904 (IR perimeter plus aerial observations)

Table 2: Total Acres Burned by Ownership

OWNERSHIP	ACRES
NFS	3904
OTHER FEDERAL (LIST AGENCY AND ACRES)	
STATE	
PRIVATE	
TOTAL	

O. Vegetation Types: **Riparian;** Narrowleaf Cottonwood/Bebb Willow, **Pinyon Juniper Woodlands:** Twoneedle Pinyon/Oneseed Juniper/Gambel Oak, **Ponderosa Pine Forest:** Ponderosa Pine/Gambel oak, Ponderosa Pine/Douglas-Fir/Twoneedle/Pinyon/Gambel Oak, **Mixed Conifer Forest:** White Fir/Douglas-Fir/ Ponderosa Pine/ Gambel Oak

P. Dominant Soils: **Typic Dystrochrepts; Typic Ustorthents; Lithic Ustorthents; Udic Ustorthents; Typic Paleboralfs**

Q. Geologic Types: Proterozoic Granite, Gneiss, Quartz Diorite and Quartz Monzonite

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	4
INTERMITTENT	36
EPHEMERAL	3
OTHER (DEFINE)	

S. Transportation System:

Trails: National Forest (miles): 9 Other (miles):

Roads: National Forest (miles): 10 (Level 1) 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	815					21
Low	1902					49
Moderate	542					14
High	621					16
Rock Outcrop	24					<1
Total	3904					100

B. Water-Repellent Soil (acres): 892 (estimated)

C. Soil Erosion Hazard Rating: 2137 moderate, 1767 high

D. Erosion Potential: low 2 tons/acre, moderate 17 tons/acre, high 47 tons/acre.

E. Sediment Potential: values in cubic yards/ square mile; low 152, moderate 1072, high 3003

F. Estimated Vegetative Recovery Period (years): 3-5 or less in areas with a prefire oak understory and aspen stands.

G. Estimated Hydrologic Response (brief description): Runoff from a 5 year one hour convective event (~1.15") is projected to be from 2 to 11 times greater than unburned conditions as a function of burn severity and watershed size. Convective storms are not expected to fall on the burned area going into fall and winter. Runoff from a 5 year 24 hour event (~2") is projected to be about 1.5 to 4 times greater than unburned conditions as a function of burn severity and watershed size. See attachment C for modeled catchments and a table of results.

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):** Trail Users, Rio en Medio Trail and connected trail network
- 2. Property (P):** Rio en Medio Trail (#163), off forest acequias, Nambe Reservoir (off forest)
- 3. Natural Resources (NR):** Domestic Water supply wells (off forest), Nambe Reservoir (off forest)
- 4. Cultural and Heritage Resources:** Not evaluated during this assessment phase

B. Emergency Treatment Objectives: Human Life and Safety

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

Land: N/A

Channel: N/A

Roads/Trails: N/A

Protection/Safety: 80

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	80	70	60

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

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

Team Leader: Greg Kuyumjian

Email: gregory.kuyumjian@usda.gov

Phone(s) 509.293.3066

Forest BAER Coordinator: Micah Kiesow

Email: micah.kiesow@usda.gov

Phone(s): 505.438.5433

Team Members: Table 7: BAER Team Members by Skill

Skill	Team Member Name
Team Lead(s)	Greg Kuyumjian
Soils	Mark Casillas
Hydrology	Edgar Martinez (trainee)
Engineering	
GIS	Robert Arlowe
Archaeology	
Weeds	Lynn Bjorklund
Recreation	Lynn Bjorklund
Other	Julie Anne Overton (PIO)

H. Treatment Narrative:

Land Treatments: N/A

Channel Treatments: N/A

Roads and Trail Treatments: N/A

Protection/Safety Treatments:

One road closure gate on Forest Road 412 at the intersection with Forest Road 102 to close public vehicle access to the burned area (\$9000)

Three road closure/warning signs. One on Forest Road 102 at the Forest Boundary, one at the 102/412 intersection and one on Forest Road 102 east of the intersection with 412. (\$665 each, total \$1995)

Two trail closure gates; at Rio en Medio Trailhead (#163) west of the fire perimeter at the Forest Boundary and Aspen Spur Trail (#417) east of the fire perimeter just below the Aspen Ranch Trailhead, (\$3800 each, total \$7600)

Ten trail closure/warning signs. Located to control use of the trail network within and leading to the Medio Fire burned area. (\$445 each, total \$4450)

One trailhead access parking closure barrier utilizing an estimated four jersey barriers as a temporary "wall" located at the Forest Boundary at the end of New Mexico 592 and Santa Fe County Road 78B. (\$9000 estimated). Design and specifications to be developed for implementation.

I. Monitoring Narrative:

PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS

Line Items	Units	Unit Cost	# of Units	BAER \$	Other \$	# of units	Fed \$	# of Units	Non Fed \$	Total \$
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										
road closure gate	ea	9,000	1	\$9,000	\$0		\$0		\$0	\$9,000
Trail closure gate	ea	3,800	2	\$7,600	\$0		\$0		\$0	\$7,600
Trail closure barrier	ea	9,000	1	\$9,000	\$0		\$0		\$0	\$9,000
Road closure signs	ea	665	3	\$1,995	\$0		\$0		\$0	\$1,995
Trail closure signs	ea	445	10	\$4,450	\$0		\$0		\$0	\$4,450
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Protection/Safety</i>				\$32,045	\$0		\$0		\$0	\$32,045
E. BAER Evaluation										
Initial Assessment	Report			---	\$27,500		\$0		\$0	\$27,500
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$0	\$27,500		\$0		\$0	\$27,500
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										
				\$32,045	\$27,500		\$0		\$0	\$59,545

PART VII - APPROVALS

1. Debbie C Cress
Forest Supervisor

09/28/2020

Date