Yellow Bluff Fire Burned Area Response Accomplishments in FY-2019

Department of the Interior
National Park Service
Timucuan Ecological and Historic Preserve

August 23, 2019

Overview of the Yellow Bluff Fire

The fire was originally reported on Wednesday, May 22, 2019, and was initially under the command of the Florida Forest Service. The origin was adjacent to the train tracks that run north to south along the eastern perimeter of the burned area. The fire burned through the night of May 22, 2019, and began to expand greatly on the afternoon of Thursday, May 23, 2019. The fire was mostly in what the park refers to as the "Thomas Creek" property, which is the area surrounding the I-95 corridor. Locals call this vast area of property the "Bacardi Tract," because the Bacardi family owned it for a large portion of the 20th Century.

The fire was mostly confined to the east side of I-95, but the fire did spot over to the west side of the property on Thursday, May 23, 2019. The spot fire occurred mainly on North Florida Land Trust property, however, it was accessed by a Dozer Line that was constructed on NPS property.
Due to the fire being on the I-95 corridor, Jacksonville Fire and Rescue Department (JFRD) responded to the incident, and set up their mobile Incident Command on the shoulder of the north bound lane on I-95 for the first several days of the fire.

The Florida Forestry Service (FFS) completed a burnout on a section of land east of I-95 on the night of May, 23, 2019 in an effort to restrict available fuel to a fire that might burn the following day.
The fire continued to burn interior fuels, requiring mop up to secure containment lines on the days following May 23rd, which was the main day for fire growth. The fire did not continue to grow anymore, and remained confined within the containment lines. On May 26, fire personnel from Cumberland Gap National Historical Park arrived, and along with a FFT2 from Timucuan, staffed a Type 6 engine on the fire. Fire personnel from the Natchez Trace Parkway were stationed at CUIS to staff a Type 6 engine on the island. The crews rotated every few days in order to secure the Yellow Bluff Fire and provide coverage in the event of new wildfires on NPS lands.

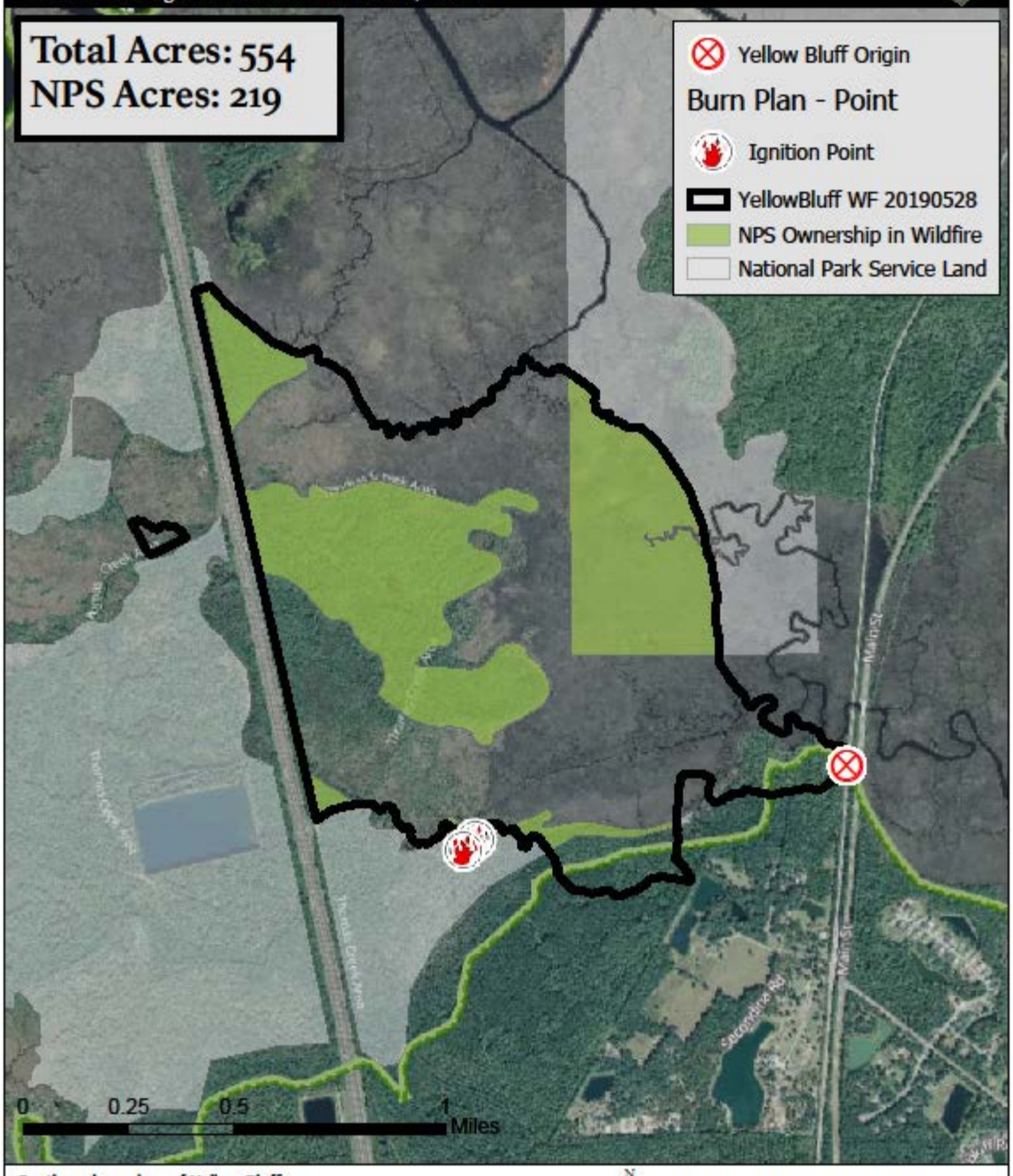
On June 3, the transition plan was signed between FFS and the NPS, and NPS took over control of the incident. The fire continued to smolder within the containment lines that afternoon, but did not grow. At approximately 1500 on June 3 firefighters began seeing re-burn in several pockets of timber where smoldering stumps, logs, or duff ignited heavy needle cast from pines that were scorched during the fire. All fire activity was well interior and not visible from I-95. The re-burned areas mostly burned out when they spread into areas with less needle-cast, although check lines were constructed in some areas to limit spread. No threats to containment lines were observed nor expected. Smoke output was light and did not impact visibility on I-95.

The acreage of the fire was 554 total acres with 219 acres being on NPS Land. Due to numerous inholdings on this portion of the park, determining land ownership was difficult, and it took us some time to figure out which entity owned which piece of property. As a result of suppression activity, approximately 1.4 miles of Dozer Line was constructed on NPS Land. The fire was considered 100% contained at 1000 hours on June 3, 2019. The fire remained in this status until it was declared out on July 24, 2019 at 1500 hours.

Yellow Bluff Wildfire, 20190528

Timucuan Ecological and Historical Preserve, Florida

National Park Service
U.S. Department of the Interior



Southern boundary of Yellow Bluff documented on May 28.
All other boundaries documented on May 24.

N

Data Sources; NPS Park Atlas, NPS Field Collection , Florida Forest Service

May, 2019

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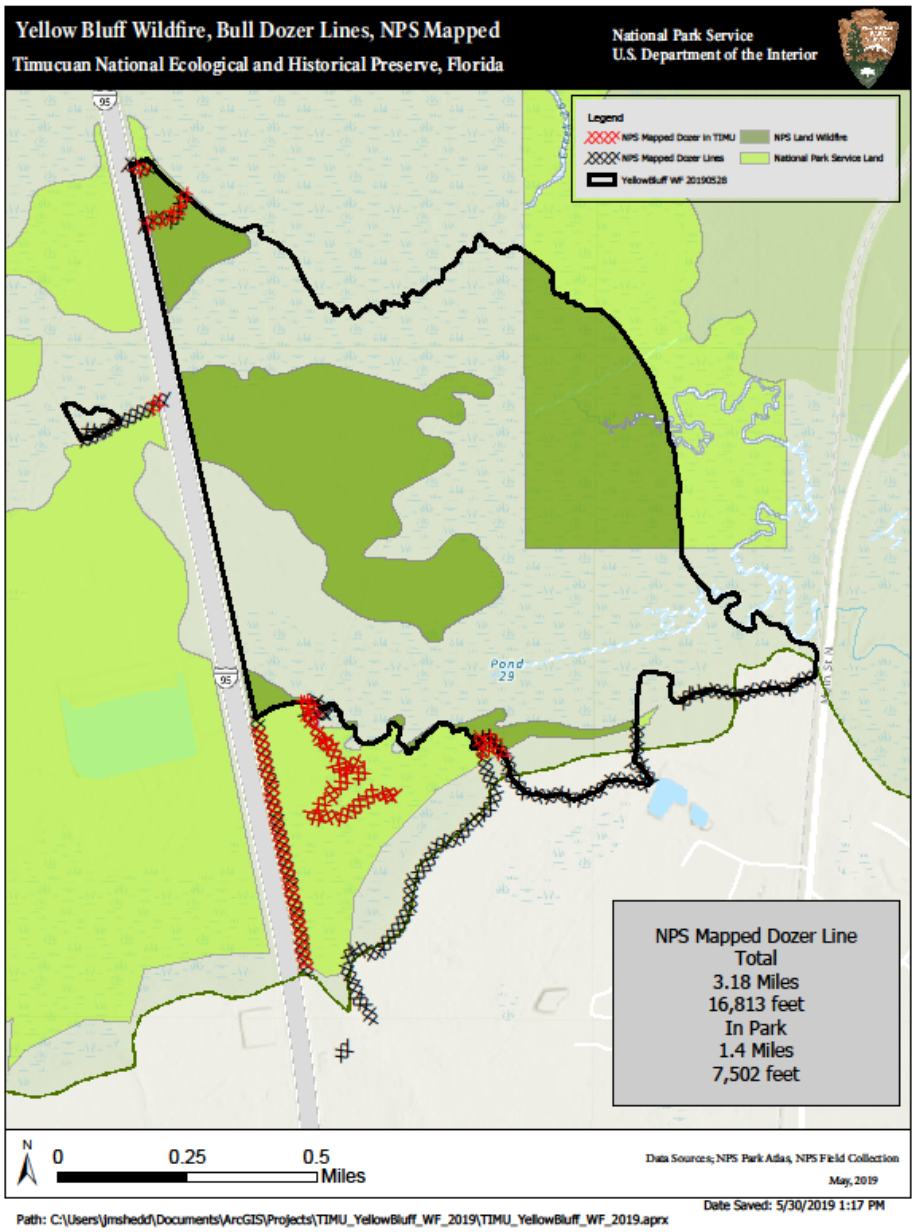
Objectives for FY-2019 Yellow Bluff Wildfire Emergency Services:

The primary objectives were to:

- Detect, Control and Monitor for Chinese Tallow (Triadica sebifera)
- Remove Hazard Trees
- Continue to protect native plant communities, sensitive plant habitat and rare plants from the invasion and/or spread of exotic plant species.



Accomplishments in FY2019

Natural Resources (Vegetation)

The topography of the uplands is flatwoods or savannah, gradually receding into tidal marsh lands. The marsh lands and associated uplands were subjected to repeated fire over a long period of time. Lightning fires area still a common occurrence in and around the marsh during the spring and summer. In the absence of naturally occurring fires, it is likely that Native Americans burned these areas to maintain habitat attractive to game and to keep the area accessible by foot.

- Post Fire Suppression Repair Rehab (Funded but not through ES):
  The South Atlantic Zone Fire Management Officer was able to coordinate with our partners and was able to arrange for Equipment Operators from Okefenokee NWR and Santee NWR to come and provide Dozer Line repair on August 9 and 10 2019.

Photograph 1: Dozer Line near the billboard; before

Photograph 2: Repair/Rehab to Dozer Line; After

- Chinese Tallow Detect, Control, and Monitor (Funded):

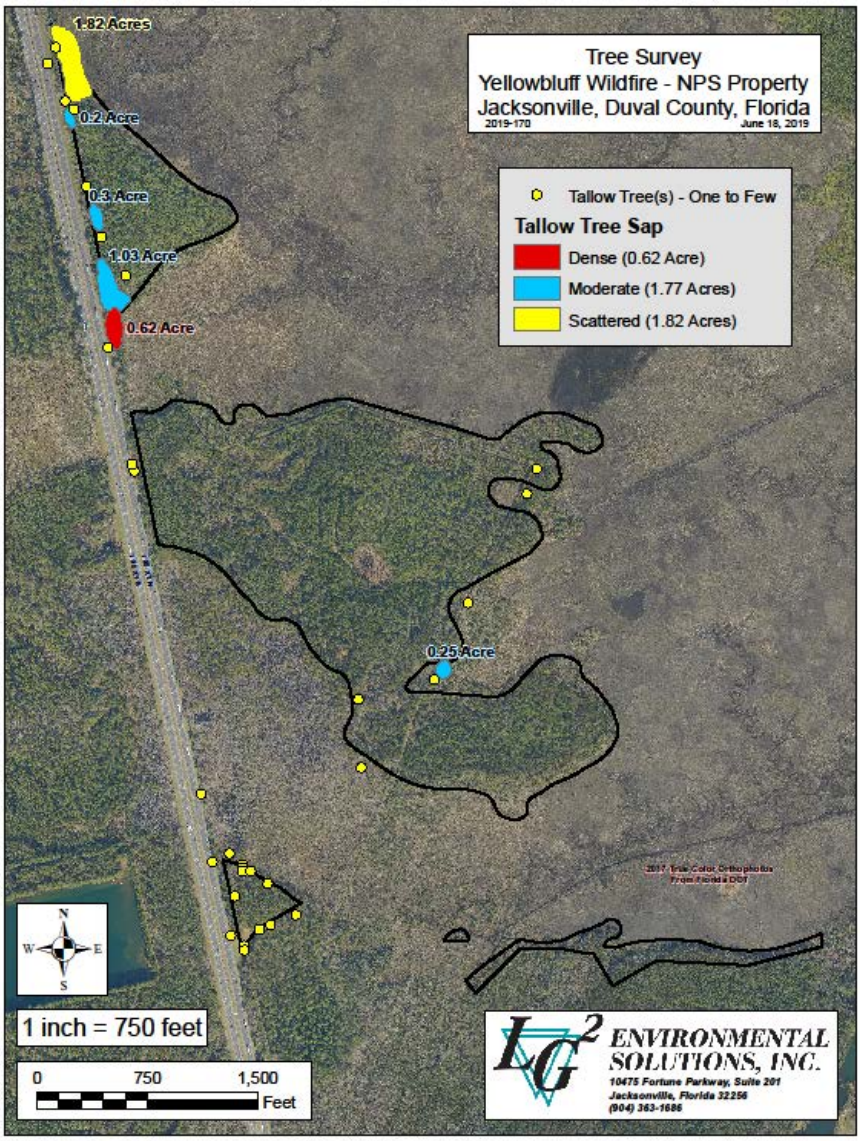
The park paid for an assessment in early June out of ONPS funding to aid in the completion of the BAER report. Protection of native plant communities, sensitive plant habitat and rare plants from invasion/spread of invasives` is a top priority for management of vegetation resources affected by the Yellow Bluff Fire. This project has been sent to Contracting and is awaiting awarding.

- Hazard Tree Removal (Funded):

Arborists were contacted about the hazard tree removal for estimates. The park will be coordinating with the South Atlantic Zone FMO later in the Fall/Winter to discuss possible tree mortality. The park also created an amendment to the Hazard Tree Removal for an archeological survey to happen before the tree removal begins.

Priority Targets for Invasive Plant Control

In FY 2019 invasive plant control was focused on detecting and locating the areas. Contracts were written and funds were obligated for the controlling and monitoring of primarily Chinese Tallow.



PART E - SUMMARY OF ACTIVITIES AND COSTS

LINE ITEM NUMBER	SPECIFICATION NUMBER	TITLE	UNIT	UNIT COST	NUMBER OF UNITS	WORK AGENT	COSTS
1	0	Invasive Plant Control	sites	#DIV/0!	0	S	$ 24,000
2	0	Invasive Plant Control	sites	#DIV/0!	0	S	$ 42,000
3	0	Hazard Tree Removal	sites	#DIV/0!	0	S	$ 150,000
4	0	Hazard Tree Removal	sites	#DIV/0!	0	C	$ 60,000
5	0	0	0	#DIV/0!	0	0	$ -
6	0	0	0	#DIV/0!	0	0	$ -
7							
8							
9							
10							
11							
12							
13							
14							
15							
						TOTAL COSTS	**$ 276,000**

Work Agent: **C**=Coop Agreement, **F**=Force Account, **G**=Grantee, **P**=Permittees, **S**=Service Contract, **T**=Timber Sales Purchaser, **V**=Volunteer

PART F - INDIVIDUAL SPECIFICATION

TREATMENT/ACTIVITY NAME	Invasive Plant Control	**PART E SPECIFICATION #**	
NFPORS TREATMENT CATEGORY*	Invasive Species	**FISCAL YEAR(S) (list each year):**	2019
NFPORS TREATMENT TYPE *	Chemical	**WUI? Y / N**	N
IMPACTED COMMUNITIES AT RISK	Thomas Creek	**IMPACTED T&E SPECIES**	None

* See NFPORS Restoration & Rehabilitation module - Edit Treatment screen for applicable entries.

WORK TO BE DONE (describe or attach exact specifications of work to be done):

Number and Describe Each Task:

A. General Description: This is for Emergency Services in order to detect, control, and monitor Triadica sebifera in burned areas and prevent expansion of known populations into newly disturbed sites. The species needs to be treated this year to combat the rapid expansion that is expected due to the close proximity of the burned areas and the dozer lines.

B. Location/(Suitable Sites): East side of I-95. From the park's GIS layer: Parcel 1) FID=94 and is 112 acres. Parcel 2) FID=124 and is 19.65 acres. Parcel 3) FID=127 and is 5 acres. These are areas that were burned and where Triadica sebifera were found. It should be noted that Triadica sebifera was not found in all areas of these parcels.

C. Design/Construction Specifications: 1. Delineate treatment areas and search for pre-existing populations fall/winter 2019/2020. 2. Triadica sebifera: Starting in Spring 2020 monitor sites and treat using hand removal; treat plants that cannot be pulled with low volume basal spray application or cut and stump treated area. 3. Other Species Control: Survey vector corridors and sites for early detection of invasive species including any listed on the FL Exotic Pest Plant Invasive Plant list. Survey, map and control all invasive exotic plants with the designated burned areas on NPS Lands. Surveying includes Inspecting interior fire and dozer lines, Recording location and routes of surveys; GPS and data files provided to park GIS staff, Collecting data regarding species found, abundance, and photo-documentation. When feasible, non-native species shall be controlled. Control includes: Removal of species using approved IPM methods as suggested above, Plants in seed must be bagged and removed off site.

D. Purpose of Treatment Specifications: Control spread of non-native invasive species into susceptible burned areas that will change the native plant composition. Protect the ecological integrity and site productivity of the burned area and associated habitats on lands administered by NPS. Prevent spread of invasive exotic weeds into critical habitats on unburned lands within and adjacent to the park.

E. Treatment Effectiveness Monitoring Proposed: Spot chacking of invasive plant sites to ensure control methods are meeting management objectives. Survey crews will visit treated sites within one week of treatment; thisis especially important for weed populations that are sprayed to ensure effectiveness of herbicide application. Surveyed and treated sites should eradicate. Results are incorporated by park staff into long-term integrated pest management programs. Data is provided to NPS Exotic Plant Management Team (EPMT) for future project planning. Intitate follow-up treatments if additional non-native species or large populations are discovered.

LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): **Do not include contract personnel costs here (see contractor services below).**	**COST / ITEM**
TOTAL PERSONNEL SERVICE COST	$ -

EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): **Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.**	**COST / ITEM**
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	$ -

MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL MATERIALS AND SUPPLY COST	$ -

TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL TRAVEL COST	$ -

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	**COST / ITEM**
10 person Crew to work 5 days on Chinese Tallow	$24,000
TOTAL CONTRACT COST	$ 24,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	PLANNED INITIATION DATE (M/D/YYYY)	PLANNED COMPLETION DATE (M/D/YYYY)	WORK AGENT	UNITS	UNIT COST	PLANNED ACCOMPLISH MENTS	PLANNED COST
FY _20	11/01/19	02/01/20	S	sites	#VALUE!	Contract Documents have been signed and the COR has met with prospective IDIQ Vendors	$ 24,000
FY __					#DIV/0!		$ -
FY __					#DIV/0!		$ -
FY __					#DIV/0!		
				TOTAL	#DIV/0!	**0**	**$ 24,000**

Work Agent: **C**=Coop Agreement, **F**=Force Account, **G**=Grantee, **P**=Permittees, **S**=Service Contract, **T**=Timber Sales Purchaser, **V**=Volunteer

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	C
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required - cost charged to Fire Suppression Account.	

P = Personnel Services, **E** = Equipment **M** = Materials/Supplies, **T** = Travel, **C** = Contract, **F** = Suppression

RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT

The company that gave us this estimate is already on the NPS IDIQ for treating exotic plants in Florida and the Southeast. The numbers that they provided were the costs associated with the IDIQ.

TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
	TOTAL COST	**$ -**

Specification Form Created September 23, 2006

PART F - INDIVIDUAL SPECIFICATION

TREATMENT/ACTIVITY NAME	Invasive Plant Control	**PART**	
NFPORS TREATMENT CATEGORY*	Invasive Species	**FISC**	2021, 2022, 2023
NFPORS TREATMENT TYPE *	Chemical	**WUI?**	
IMPACTED COMMUNITIES AT RISK	Thomas Creek	**IMPA**	none

* See NFPORS Restoration & Rehabilitation module - Edit Treatment screen for applicable entries.

WORK TO BE DONE (describe or attach exact specifications of work to be done):

Number and Describe Each Task:

A. General Description: This is for Burned Area Rehabilitation in the years following the initial investment in Emergency Services. The end result is still the same: Detect, control, and monitor Triadica sebifera in burned areas and prevent expansion of known populations into newly disturbed sites.

B. Location/(Suitable Sites): East side of I-95. From the park's GIS layer: Parcel 1) FID=94 and is 112 acres. Parcel 2) FID=124 and is 19.65 acres. Parcel 3) FID=127 and is 5 acres. These are areas that were burned and where Triadica sebifera were found.

C. Design/Construction Specifications: 1. Delineate treatment areas and search for pre-existing populations fall/winter 2019/2020. 2. Triadica sebifera: Starting in Spring 2020 monitor sites and treat using hand removal; treat plants that cannot be pulled with low volume basal spray application or cut and stump treated area. 3. Other Species Control: Survey vector corridors and sites for early detection of invasive species including any listed on the FL Exotic Pest Plant Invasive Plant list. Survey, map and control all invasive exotic plants with the designated burned areas on NPS Lands. Surveying includes Inspecting interior fire and dozer lines, Recording location and routes of surveys; GPS and data files provided to park GIS staff, Collecting data regarding species found, abundance, and photo-documentation. When feasible, non-native species shall be controlled. Control includes: Removal of species using approved IPM methods as suggested above, Plants in seed

D. Purpose of Treatment Specifications: Control spread of non-native invasive species into susceptible burned areas that will change the native plant composition. Protect the ecological integrity and site productivity of the burned area and associated habitats on lands administered by NPS. Prevent spread of invasive exotic weeds into critical habitats on unburned lands within and adjacent to the park.

E. Treatment Effectiveness Monitoring Proposed: Spot chacking of invasive plant sites to ensure control methods are meeting management objectives. Survey crews will visit treated sites within one week of treatment; thisis especially important for weed populations that are sprayed to ensure effectiveness of herbicide application. Surveyed and treated sites should eradicate. Results are incorporated by park staff into long-term integrated pest management programs. Data is provided to NPS Exotic Plant Management Team (EPMT) for future project planning. Intitate follow-up treatments if additional non-native species or large populations are discovered.

LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).	**COST / ITEM**
TOTAL PERSONNEL SERVICE COST	$ -
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	$ -
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	**COST / ITEM**

TOTAL MATERIALS AND SUPPLY COST	$ -

TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL TRAVEL COST	$ -

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	**COST / ITEM**
10 Person Crew to work 2-3 days on Chinese Tallow	$ 14,000
TOTAL CONTRACT COST	$ 14,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	PLANNED INITIATION DATE (M/D/YYYY)	PLANNED COMPLETION DATE (M/D/YYYY)	WORK AGENT	UNITS	PLANNED ACCOMPLISHMENTS	PLANNED COST
FY _21_	11/01/20	02/01/21	S	sites		$ 14,000
FY _22_	11/01/21	02/01/22	S	sites		$ 14,000
FY _23_	11/01/22	02/01/23	S	sites		$ 14,000
FY __						
				TOTAL	**0**	**$ 42,000**

Work Agent: **C**=Coop Agreement, **F**=Force Account, **G**=Grantee, **P**=Permittees, **S**=Service Contract, **T**=Timber Sales Purcha

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	C
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required - cost charged to Fire Suppression Account.	

P = Personnel Services, **E** = Equipment **M** = Materials/Supplies, **T** = Travel, **C** = Contract, **F** = Sup

RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT

TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
	TOTAL COST	**$ -**

Specification Form Created September 23, 2006

PART F - INDIVIDUAL SPECIFICATION

TREATMENT/ACTIVITY NAME	Hazard Tree Removal	**PART E SPECIFICATION #**	
NFPORS TREATMENT CATEGORY*	Roads	**FISCAL YEAR(S) (list each year):**	2019
NFPORS TREATMENT TYPE *	Hazard Removal	**WUI? Y / N**	N
IMPACTED COMMUNITIES AT RISK	Thomas Creek	**IMPACTED T&E SPECIES**	None

* See NFPORS Restoration & Rehabilitation module - Edit Treatment screen for applicable entries.

WORK TO BE DONE (describe or attach exact specifications of work to be done):

Number and Describe Each Task:

A. General Description: This is for Emergency Stabilization and will be used to remove any trees that were killed during the Yellow Bluff Fire and are tall enough so that if they did fall they would either hit a tree in the I-95 right of way or I-95.

Amendment

This is an amendment to the original Timucuan Ecological and Historic Preserve ES for Hazard Tree removal. These hazard trees are in an area that has never been archeologically surveyed, and the heavy equipment that will be utilized to remove the hazard trees. The use of heavy equipment could negatively impact these cultural resources. An archeological survey is necessary before this work begins. The park has performed market research and coordinated with SEAC (Southeastern Archeological Center) and is requesting that $8,000 of the original $150,000 be utilized for an archeological survey.

B. Location/(Suitable Sites): On the east side of I-95 and in the burned areas. The trees to be harvested will be within 100 feet of the Florida Department of Transportation right of way. C.
Design/Construction Specifications: 1. Delineate and identify hazard trees in the winter of 2019/2020. 2. Fell and remove the hazard trees so that they no longer pose a life and health risk to the motorists on I-95. This work will be completed under contract.

D. Purpose of Treatment Specifications: Protect the motorists on I-95 as they drive north.

E. Treatment Effectiveness Monitoring Proposed: All work will be certified by complete by one of the park's certified chainsaw instructors and the COR for the project.

LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): **Do not include contract personnel costs here (see contractor services below).**	**COST / ITEM**
TOTAL PERSONNEL SERVICE COST	$ -
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): **Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.**	**COST / ITEM**
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	$ -
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL MATERIALS AND SUPPLY COST	$ -
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL TRAVEL COST	$ -
CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	**COST / ITEM**
Contractor for Tree Removal	$ 142,000
SEAC for Archeological Survey	$ 8,000
TOTAL CONTRACT COST	$ 150,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	PLANNED INITIATION DATE (M/D/YYYY)	PLANNED COMPLETION DATE (M/D/YYYY)	WORK AGENT	UNITS	UNIT COST	PLANNED ACCOMPLISH MENTS	PLANNED COST
FY_20_	10/01/19	06/01/20	S	sites	#DIV/0!		$ 150,000
FY__					#DIV/0!		
FY__					#DIV/0!		
FY__					#DIV/0!		
				TOTAL	#DIV/0!	**0**	**$ 150,000**

Work Agent: **C**=Coop Agreement, **F**=Force Account, **G**=Grantee, **P**=Permittees, **S**=Service Contract, **T**=Timber Sales Purchaser, **V**=Volunteer

SOURCE OF COST ESTIMATE

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RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT

TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
	TOTAL COST	**$ -**

Specification Form Created September 23, 2006

PART F - INDIVIDUAL SPECIFICATION

TREATMENT/ACTIVITY NAME	Hazard Tree Removal	**PART E SPECIFICATION #**	
NFPORS TREATMENT CATEGORY*	Roads	**FISCAL YEAR(S) (list each year):**	2021, 2022, 2023
NFPORS TREATMENT TYPE *	Hazard Removal	**WUI? Y / N**	N
IMPACTED COMMUNITIES AT RISK	Thomas Creek	**IMPACTED T&E SPECIES**	None

* See NFPORS Restoration & Rehabilitation module - Edit Treatment screen for applicable entries.

WORK TO BE DONE (describe or attach exact specifications of work to be done):

Number and Describe Each Task:

A. General Description: This is for BAR funding and will be used to remove any trees that were harvested during the ES project and have since become a hazard tree.

B. Location/(Suitable Sites):On the east side of I-95 and in the burned areas. The trees to be harvested will be within 100 feet of the Florida Department of Transportation right of way.

C. Design/Construction Specifications: 1. Delineate and identify hazard trees that were not harvested under the ES funding contract. 2. Fell the hazard trees and remove the trees so that they no longer pose a life and health risk to the motorists on I-95. This work will be completed under contract.

D. Purpose of Treatment Specifications:Protect the motorists on I-95 as they drive north.

E. Treatment Effectiveness Monitoring Proposed: All work will be certified by complete by one of the park's certified chainsaw instructors and the COR for the project.

LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).	**COST / ITEM**
TOTAL PERSONNEL SERVICE COST	$ -

EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.	**COST / ITEM**
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	$ -

MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL MATERIALS AND SUPPLY COST	$ -

TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	**COST / ITEM**
TOTAL TRAVEL COST	$ -

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	**COST / ITEM**
Removing Hazard Trees	$ 30,000
TOTAL CONTRACT COST	$ 30,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	PLANNED INITIATION DATE (M/D/YYYY)	PLANNED COMPLETION DATE (M/D/YYYY)	WORK AGENT	UNITS	UNIT COST	PLANNED ACCOMPLISHMENTS	PLANNED COST
FY_21_	10/01/20	06/01/21	C	sites	#DIV/0!		$ 20,000
FY_22_	10/01/21	06/01/22	C	sites	#DIV/0!		$ 20,000
FY_23_	10/01/22	06/01/23	C	sites	#DIV/0!		$ 20,000
FY__					#DIV/0!		
				TOTAL	#DIV/0!	**0**	**$ 60,000**

Work Agent: **C**=Coop Agreement, **F**=Force Account, **G**=Grantee, **P**=Permittees, **S**=Service Contract, **T**=Timber Sales Purchaser, **V**=Volunteer

SOURCE OF COST ESTIMATE

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2. Documented cost figures from similar project work obtained from local agency sources.	

3. Estimate supported by cost guides from independent sources or other federal agencies.	
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RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT

TOTAL COST BY JURISDICTION

JURISDICTION	UNITS TREATED	COST
	TOTAL COST	**$ -**

Specification Form Created September 23, 2006