

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS**

**AGENDA ITEM SUMMARY**

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Meeting Date: April 4, 2017	( X ) Consent	( ) Regular	
	( ) Ordinance	( ) Public Hearing	

**Department**

Submitted By: Environmental Resources Management

Submitted For: Environmental Resources Management

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**I EXECUTIVE BRIEF**

**Motion and Title: Staff recommends motion to:**

**A) approve** a State of Florida – Hazard Mitigation Grant Program Application (HMGP) for Federal Emergency Management Agency (FEMA Region IV) funding from Hurricane Hermine providing \$562,500 for the Wildfire Mitigation Project (Project) on Palm Beach County's Natural Areas for a period not to exceed three years from the date of execution;

**B) approve** a State of Florida – Hazard Mitigation Grant Program Application (HMGP) for Federal Emergency Management Agency (FEMA Region IV) funding from Hurricane Matthew providing \$562,500 for the Wildfire Mitigation Project (Project) on Palm Beach County's Natural Areas for a period not to exceed three years from the date of execution; and

**C) authorize** the County Administrator or her designee to sign all future time extensions, task assignments, certifications, and other forms associated with this Grant, and any necessary minor amendments that do not substantially change the scope of work, terms or conditions of this Grant.

**Summary:** The Palm Beach County Local Mitigation Strategy (LMS) Working Group approved and prioritized the Wildfire Mitigation Project funding resulting from Hurricanes Hermine and Matthew. Total cost for each project is \$750,000 of which \$562,500 (75%) will come from HMGP and \$187,500 (25%) from the County. The purpose of the Project is to reduce or eliminate long term risk to people and both private and public property from natural wildfire hazards. The Project will involve mechanical chopping/shredding of vegetation to reduce highly flammable fuel loads of saw palmetto and other shrubs that have increased in size and density in the midstory of the natural area habitats. The County's share will come from the Natural Areas Fund (12.5%) and in-kind County staff services (12.5%). Countywide (AH)

**Background and Justification:** Palm Beach County's Department of Environmental Resources Management (ERM) conducts wildfire mitigation activities, including both mechanical fuel reduction and prescribed burns throughout the year to help protect communities adjacent Natural Areas from wildfires. Mitigation activities are conducted in high-risk wildland-urban interface communities, where structures are adjacent to natural vegetation.

**Attachments:**

1. HMGP Application for Hurricane Matthew
2. HMGP Application for Hurricane Hermine

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Recommended by:   
Department Director

3/13/17  
Date

Approved by:   
for Deputy County Administrator

3/24/17  
Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2017	2018	2019	2020	2021
Capital Expenditures					
Operating Costs	\$1,500,000				
External Revenues	(\$1,125,000)				
Program Income (County)					
In-Kind Match (County)					
NET FISCAL IMPACT	\$375,000				
No. ADDITIONAL FTE POSITIONS (Cumulative)					

Is Item Included In Current Budget? Yes \_\_\_\_\_ No X  
Budget Account No.: Fund \_\_\_\_\_ Department \_\_\_\_\_ Unit \_\_\_\_\_  
Object \_\_\_\_\_

B. Recommended Sources of Funds/Summary of Fiscal Impact:  
Fiscal impact associated with project as outlined in HMGP application is 12.5% in kind match and 12.5% (cash) will be funded from ERM Natural Area Fund.

C. Departmental Fiscal Review: *S. Neary*

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

There will be no fiscal impact unless the grant is awarded.

*[Signature]*  
OFMB *3/8* *3/9* *3/12* *3/22/17*  
*[Signature]* Contract Dev. and Control *3/22/17*

B. Legal Sufficiency:

*Anne Delmont 3-24-17*  
Assistant County Attorney

C. Other Department Review:

\_\_\_\_\_  
Department Director

STATE OF FLORIDA – HAZARD MITIGATION GRANT PROGRAM APPLICATION

THIS SECTION FOR STATE USE ONLY

FEMA- 4177-DR-FL

- ☐ Standard HMGP
- ☐ 5% Initiative Application
- ☐ Application Complete
- ☐ Standard FMA
- ☐ Initial Submission
- or
- ☐ Re- Submission

Support Documents

- ☐ Conforms w/ State 409 Plan
- ☐ In Declared Area
- ☐ Statewide

Eligible Applicant

- ☐ State or Local Government
- ☐ Private Non-Profit (Tax ID Received)
- ☐ Recognized Indian Tribe or Tribal Organization

Project Type(s)

- ☐ Wind
- ☐ Flood
- ☐ Other: \_\_\_\_\_

Community NFIP Status: (Check all that apply)

- ☐ Participating Community ID#: \_\_\_\_\_
- ☐ In Good Standing
- ☐ Non-Participating
- ☐ CRS

Reviewer Phone#: \_\_\_\_\_

Reviewer Fax#: \_\_\_\_\_

Reviewer E-Mail: \_\_\_\_\_

Date Application Received: \_\_\_\_\_

State Application ID: \_\_\_\_\_

State Reviewer: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

This application is for all Federal Emergency Management Agency (FEMA Region IV) Hazard Mitigation Grant Program (HMGP) proposals. Please complete ALL sections and provide the documents requested. If you require technical assistance with this application, please contact your State Emergency Management Division at (850) 922-5944.

A. To Fill Out This Application: Complete all sections that correspond with the type of proposed project

- General Application Sections:** All applicants must complete these sections

**Environmental Review:** All applicants must complete these sections

**Maintenance Agreement:** Any applications involving public property, public ownership, or management of property

**Damage Frequency Assessment Worksheet:** Acquisition, Elevation, Floodproofing (if FIS and H&H are unavailable) -- one worksheet per structure

**Flood-Drainage Improvement Worksheet:** Acquisition, Elevation, Floodproofing (if FIS and H&H are available) -- one worksheet per structure

**Tornado Worksheet:** Safe Room Projects only

**Wind Retrofit Worksheet:** Wind retrofit projects only -- one worksheet per structure

**Request for Public Assistance Form:** FEMA Form 90-49 (Request for Public Assistance): All applicants must complete, if applicable. If project type is Acquisition, these forms must be completed. (Only one of the two *Notice of Voluntary Interest* forms is necessary.)

**Acquisition Forms:** *Model Statement of Assurances for Property Acquisition Projects*  
*Declaration and Release*  
*Notice of Voluntary Interest (Town Hall Version)*  
*Notice of Voluntary Interest (Single Site Version)*  
*Statement of Voluntary Participation*  
*FEMA Model Deed Restriction Language*

**Application Completeness Checklist:** All applicants are recommended to complete this checklist

B. Applicant Information

FEMA-4283 -DR-FL

DISASTER NAME: Hurricane Mathew

*Ex., FEMA-1609-DR-FL: Hurricane Wilma*

Title / Brief Descriptive Project Summary: Wildfire Mitigation on Palm Beach County Natural Areas

1. Applicant (Organization): Palm Beach County Department of Environmental Resources Management
2. Applicant Type:

☒ State or Local Government

☐ Recognized Native American Tribe

☐ Private Non-Profit

3. County: Palm Beach
4. State Legislative House District(s): 81,85,86,87,89,90,88 State Legislative Senate District(s): 25,27,34 Congressional House District(s): 20,21,22
5. Federal Tax I.D. Number: 85-8012622286C-8
6. Data Universal Numbering System (DUNS): 0784704810000
7. FIPS Code\*: N/A  
(\*if your FIPS code is not known, please fill out FEMA Form 90-49 (Request for Public Assistance) so that the Department may obtain a FIPS code for you)
8. National Flood Insurance Program (NFIP) Community Identification Number (this number can be obtained from the FIRM map for your area): N/A
9. NFIP Community Rating System Class Number (if available): N/A
10. NFIP Last Community Assistance Visit Date (FMA ONLY): N/A
11. Attach proof of current Flood Insurance Policy (FMA ONLY): N/A

12. **Point of Contact**

☐ Ms. ☒ Mr. ☐ Mrs. First Name: Daniel Last Name: Bates  
 Title: Deputy Director, Palm Beach County Department of Environmental Resources Management  
 Street Address: 2300 N. Jog Rd. 4<sup>th</sup> Floor  
 City: West Palm Beach State: FL Zip Code: 33411  
 Telephone: 561-233-2445 Fax: 561-233-2414  
 Email Address: DBates@pbcgov.org

13. **Application Prepared by**

☐ Ms. ☒ Mr. ☐ Mrs. First Name: Harper Last Name: Carroll  
 Title: \_\_\_\_\_ Telephone: 561-233-2561 Fax: 561-233-2414  
 Email Address: hcarroll@pbcgov.org

14. **Authorized Applicant Agent (proof of authorization authority required)**

☒ Ms. ☐ Mr. ☐ Mrs. First Name: Paulette Last Name: Burdick  
 Title: Mayor, Palm Beach County Board of County Commissioners  
 Telephone: 561-355-2202 Fax: 561-355-6277  
 Street Address: 301 North Olive Ave., Suite 1201  
 City: West Palm Beach State: FL Zip Code: 33401  
 Email Address: pburdick@pbcgov.org

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

15. All proposed projects should be included in the county's Local Mitigation Strategy (LMS). Attached is a letter of endorsement for the project from the county's Local Mitigation Strategy Chairperson. ☒ Yes ☐ No
16. Has this project been submitted and/or funded under a previous disaster event? If so please provide the disaster number and project number if available. No

## Section I. Project Description

### A. Hazards to be Mitigated / Level of Protection

1. Select the type of hazards the proposed project will mitigate:  
☐ Flood ☐ Wind ☐ Storm surge ☒ Other (list): Wildfire
2. Identify the type of proposed project:  
☐ Elevation and retrofitting of residential or non-residential structure  
☐ Acquisition and relocation ☐ Acquisition and demolition  
☐ Wind retrofit ☐ Minor drainage project that reduces localized flooding

☒ Other (please explain) Mechanical reduction of volatile vegetation (fuel) to reduce the risk of a catastrophic wildfire that are in close proximity of homes.

3. List the total number of persons that will be protected by the proposed project: 1.4 million people live in Palm Beach County. ERM manages 31,387 acres at 37 Natural Areas located in highly populated areas of eastern Palm Beach County. The most significant WUI threats in the County are from pine flatwoods and scrub vegetation communities. In coastal areas, the scrub community is most dominant while it is expected to burn at an interval between 10 and 30 years, many of these areas have not burned in more than 50 years. The dominant upland vegetation community west of Interstate 95 out to the Acreage is pine flatwoods. Pine flatwoods are expected to burn at an interval between 2 and 8 years, but many of the areas have not burned in more than 25 years. Due to the large amounts of available fuels in these communities, it is not whether a wildfire will occur but rather when it will occur. When wildfires occur in highly populated areas, not only are neighboring residences and businesses affected, but the smoke from the wildfires will likely affect roads, schools, medical facilities, airports and other smoke sensitive areas for days.

4. Fill in the level of protection and the magnitude of event the proposed project will mitigate.  
(e.g. 23 structures protected against the 100-year [1%] flood)

structure(s) protected against the \_\_\_\_\_-year Flood (10, 25, 50, 100, or 500 year)

structure(s) protected against \_\_\_\_\_ mile per hour (mph) winds

5. **Engineered projects only** (e.g. Drainage Improvements, Erosion Control or other special project types. [Other special project types include drainage and other engineered projects. These projects are unlike acquisition, elevation or wind retrofits/shutters.]) Attach to this page **ALL** engineering calculations and design plans used to determine the above level of protection.

6. Project will provide protection against the hazard(s) above for 10 years. (i.e., what is the useful life of the project?)

**B. Project Description, Scope of Work, and Protection Provided (Must be Completed in Detail)**

1. Describe, in detail, the existing problem, the proposed project, and the scope of work. Explain how the proposed project will *solve* the problem(s) and provide the level(s) of protection described in Part A. Also, if available, attach a vendor's estimate and/or a contractor's bid for the scope of work. ***Please ensure that each proposed project is mitigation and not maintenance.***

2. Description of the existing problems: Because of development, natural, lightning-induced fire can no longer fulfill the needs of natural communities in the County which are dependent upon fire for their long-term survival (for example, basin marsh, depression marsh, dome swamp, mesic flatwoods, scrub, scrubby flatwoods, slough marsh, wet flatwoods and wet prairie). Natural fire can no longer spread from adjacent lands onto the natural area because all of the surrounding fire-dependent communities have been lost to development. When natural fire does occur within or adjacent to the natural area it is quickly extinguished due to the threat it poses to adjacent developed areas. Controlled, prescribed fire and mechanical fuel reduction activities will be used at this site to help maintain the existing fire-dependent communities and reduce the risk of damage from wildfire on the adjacent developed areas. Wildfire mitigation is the proactive implementation of measures designed to minimize the destructive effects of wildfires. One of the most effective mitigation activities is mechanical fuel reduction treatments, such as mulching and mowing. Palm Beach County's Department of Environmental Resources Management (ERM) conducts wildfire mitigation activities throughout the year to help protect communities adjacent to ERM managed Natural Areas from wildfires. Mitigation activities are conducted in high-risk wildland-urban interface (WUI) communities. The WUI refers to those areas where structures are adjacent to natural vegetation. The wildfire risk of an area is determined by a number of factors, including the amount and types of vegetation present and how it is arranged in the landscape.

ERM manages 31,387 acres at 37 Natural Areas located in highly populated areas of eastern Palm Beach County. The most significant WUI threats in the County are from pine flatwoods and scrub vegetation communities. In coastal areas, the scrub community is most dominant while it is expected to burn at an interval between 10 and 30 years, many of these areas have not burned in more than 50 years. The dominant upland vegetation community west of Interstate 95 out to the Acreage is pine flatwoods. Pine flatwoods are expected to burn at an interval between 2 and 8 years, but many of the areas have not burned in more than 25 years. Due to the large amounts of available fuels in these communities, it is not whether a wildfire will occur but rather when it will occur. When wildfires occur in highly populated areas, not only are neighboring residences and businesses affected, but the smoke from the wildfires will likely affect roads, schools,

medical facilities, airports and other smoke sensitive areas for days. (Attachment #1).

ERM staff prioritize the risk factors at each site for mechanical fuel reduction treatments by evaluating risks such as proximity to structures and roads, fuel types, the amount of time since last fire or fuel reduction and reviewing the Board of County Commissioner's approved management plan for the site. After this assessment is made, orders are placed with a vendor on County contracts to come onto the site to mulch the vegetation to the ground. Once the fuels are reduced, the threat of an out of control wildfire is significantly reduced. ERM staff then use existing equipment to keep the vegetation at a low level to maintain the reduced wildfire threat. ERM has received praise from County and municipal fire departments and the Florida Forest Service (FFS) for its proactive management of these WUI areas.

3. Describe the type(s) of protection that the proposed project will provide: Facilities such as residences, businesses, motorists, assisted living facilities, health facilities, power infrastructure and schools are all at risk to both the initial wildfire and secondary affects such as closed roads and smoke exposure. When wildfires occur in highly populated areas, not only are neighboring residences and businesses effected, but the smoke from the wildfires will likely effect roads, schools, medical facilities, airports and other smoke sensitive areas for days. This project will greatly reduce the likelihood of out of control wildfires, along with all of the negative impacts of the smoke.

4. Scope of Work (describe in detail what you are planning to do): The Project will involve mechanical chopping/shredding of vegetation and reducing highly flammable fuel loads of saw palmetto and other shrubs that have encroached and increased in the midstory of the habitats. The County will utilize an excavator with a drum chopping head (Brontosaurus) to reduce overgrown vegetation in the midstory to mitigate the risk of wildfire and to allow for lower fire intensity during prescribed burns. The project will be implemented using a vendor from one of the County's master agreements work will commence once funding is approved.

5. Describe any other on-going or proposed projects in the area that may impact, positively or negatively, the proposed HMGP or FMA project: N/A

## Section II. Project Location (Fully describe the location of the proposed project.)

### A. Site

1. Describe the physical location of this project, including street numbers (or neighborhoods) and zip codes. If available, please provide precise longitude and latitude coordinates for the site utilizing a hand-held global positioning system (GPS) unit or the equivalent: See Figure 1a, 1b and 2a, 2b
2. Title Holder: Palm Beach County Board of County Commissioners
3. Is the project site seaward of the Coastal Construction Control Line (CCCL)? ☐ YES ☒ NO
4. Provide the number of each structure type (listed below) in the project area that will be affected by the project. That is, **all** structures in project area.

<input checked="" type="checkbox"/> Residential property: <u>See Fig. 1a</u>	<input checked="" type="checkbox"/> Businesses/commercial property: <u>See Fig. 1a</u>
<input type="checkbox"/> Public buildings: _____	<input checked="" type="checkbox"/> Schools/hospitals/houses of worship: <u>See Fig. 1a</u>
<input checked="" type="checkbox"/> Other: <u>Natural Areas</u>	

**B. Flood Insurance Rate Map (FIRM) showing Project Site**

<input type="checkbox"/> Attach two (2) copies of the FIRM map, a copy of the panel information from the FIRM, and, if available, the Floodway Map. <i><b>FIRM maps are required for this application (if published for your area). Also, all attached maps must have the project site and structures clearly marked on the map.</b></i> FIRMs are typically available from your local floodplain administrator who may be located in a planning, zoning, or engineering office. Maps can also be ordered from the Map Service Center at 1-800-358-9616. For more information about FIRMs, contact your local agencies or visit the FIRM site on the FEMA Web-page at <a href="https://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&amp;catalogId=10001&amp;langId=-1">https://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&amp;catalogId=10001&amp;langId=-1</a>	
Using the FIRM, determine the flood zone(s) of the project site (Check all zones in the project area).	
(See FIRM legend for flood zone explanations) (A Zone must be identified)	
<input type="checkbox"/> VE or V 1-30	<input type="checkbox"/> AE or A 1-30
<input type="checkbox"/> AO or AH	<input type="checkbox"/> A (no base flood elevation given)
<input type="checkbox"/> B or X (shaded)	<input type="checkbox"/> C or X (unshaded)
<input type="checkbox"/> Floodway	
<input type="checkbox"/> Coastal Barrier Resource Act (CBRA) Zone (Federal regulations strictly limit Federal funding for projects in this zone. Please coordinate with your state agency before submitting an application for a CBRA Zone project).	
<input type="checkbox"/> <b>If the FIRM Map for your area is not published</b> , please attach a copy of the Flood Hazard Boundary Map (FHBM) for your area, with the project site and structures clearly marked on the map.	

☐ Attach a copy of a Special Flood Hazard Area Flood Insurance Assurance(s).

**C. City or County Map with Project Site and Photographs**

- ☒ Attach a copy of a city or county scale map (large enough to show the entire project area) with the project site and structures marked on the map.
- ☒ Attach a USGS TOPO map with project site *clearly* marked on the map.
- ☐ For **acquisition** or **elevation** projects, include copy of Parcel Map (Tax Map, Property Identification Map, etc.) showing each property to be acquired. The map should include the Tax ID numbers for each parcel, if possible.
- ☒ Attach photographs (a minimum of 2 photographs) for each project site per application. The photographs should be representative of the project area, including any relevant streams, creeks, rivers, etc., and drainage areas, which affect the project site or will be affected by the project. For each structure, please include the following angles: front, back and both sides.

Section III. Budget/Costs

In this section, provide details of all the estimated costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. **Do not** include contingency costs in the budget. *Avoid the use of lump sum costs.*

*Note: To be eligible for HMA funding, pre-award costs must be identified as separate line items in the cost estimate of the application. This must be done in addition to filling out the HMGP Pre-Award Cost Request Form. Please mark each pre-award cost with an asterisk (\*).*

A. Materials

Item	Dimension	Quantity	Cost per Unit	Cost

B. Labor (Include equipment costs. Please indicate all “soft” or in-kind matches. All in-kind match must be identified in the Section III. Budget/Costs of this application.)

Description	Hours	Rate	Cost
Hydraulic Excavator min 175HP w/independently powered rotating drum type mulcher	4615	162.5/hr.	750000

C. Fees Paid (Include any other costs associated with the project.)

Description of Task	Hours	Rate	Cost

Total Estimated Project Cost \$ \_\_\_\_\_



D. Funding Sources (Round figures to the nearest dollar.)

The maximum FEMA share for HMGP projects is 75%. The other 25% can be made up of State and Local funds as well as in-kind services. The FMA program requires that the maximum in-kind match be no more than 12.5% of the total project costs. HMGP/FMA funds may be packaged with other Federal funds, but other Federal funds (except for Federal funds that lose their Federal identity at the State level such as CDBG and certain tribal funds) may not be used for the non-Federal share of the costs.

Estimated FEMA Share	\$ 562,500	75 % of Total (maximum of 75%)
Non-Federal Share		
Estimated Local Share	\$ 93,750	12.5 % of Total (Cash)
	\$ 93,750	12.5 % of Total (In-kind*)
	\$	% of Total (Project Global Match**)
	Global Match Project Title:	
Other Agency Share	\$	% of Total

(Identify Other Non-Federal Agency and availability date: )

Total Funding sources from above	\$ 750,000	100 Total % (should equal 100%)
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\*Identify proposed eligible activities directly related to project to be considered for In-kind services. (Note on Section B)  
\*\*Separate project application must be submitted for each project (Global) Match project.

E. Project Milestones/Schedule of Work

List the major milestones in this project by providing an estimated time-line for the critical activities not to exceed a period of 3 years for performance, e.g. Designing, Engineering, Permitting, etc. These milestones should correspond with the scope of work and budget.

Milestone	Number of Days to Complete
[Example: Demolition of 6 structures and removal of debris	14 days]
Mechanical Fuel Reduction 2 acres	1 day



Section IV. Environmental Review and Historic Preservation Compliance

(NOTE: This application cannot be processed if this section is not completed.)

Because HMGP/FMA are federally funded programs, all projects are required to undergo an environmental and historic preservation review as part of the grant application process. Moreover, all projects must comply with the National Environmental Policy Act (NEPA) and associated Federal, State, Tribal, and Local statutes to obtain funding. **NO WORK can be done prior to the NEPA review process. If work is done on your proposed project before the NEPA review is completed, it will NOT be eligible for Federal funding.**

A. The following information is required for the Environmental and Historic Preservation review:

All projects must have adequate documentation to determine if the proposed project complies with NEPA and associated statutes. The State Environmental Staff provide comprehensive NEPA technical assistance for applicants, with their consent, to complete the NEPA review. The type and quantity of NEPA documents required to make this determination varies depending upon the project's size, location, and complexity. However, at a minimum, please provide the applicable documentation from this section to facilitate the NEPA compliance process.

- ☒ Detailed project description, scope of work, and budget/costs (Section I and Section III of this application).
- ☒ Project area maps with project site and staging area marked (Section II, part B & C of this application).
- ☒ Project area/structure photographs (Section II, part C of this application).
- ☐ Preliminary project plans.
- ☐ Project alternatives description and impacts (Section IV of this application).
- ☐ Please complete the applicable project worksheets. Dates of construction are required for all structures.
- ☐ Environmental Justice – Attach documents regarding evaluation (required) and satisfactory resolution (if necessary) of Environmental Justice issues (Highly Disproportionate, Adverse Impacts [effects] on Minority or Low Income Populations.) Documents can include public meeting records, media reports, letters from interested persons and groups, studies on population, ethnic groups, quality of life, housing, economics, transportation, public services, schools, public health, recreation, voting, etc.
- ☐ Provide any applicable information or documentation referenced on the *Information and Documentation Requirements by Project Type* (p. 10 of this application).

B. Executive Order 12898, Environmental Justice for Low Income and Minority Population

Are there low income or minority populations in the project area or adjacent to the project area? If yes, please describe any disproportionate and adverse effects to these populations.

To help evaluate the impact of the project, please indicate below any other information you are providing:

- ☐ Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts in your proposal narrative and budget.
- ☐ Attached materials or additional comments.

C. Information required for Tribal Consultations

*Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effect of their undertakings on historic properties. The NHPA requires that agencies must complete this process prior to the expenditure of any Federal funds on the undertaking. A Tribal Consultation is required for any project disturbing ground or moving soil, including but not limited to: drainage projects; demolition; construction; elevation; communication towers; tree removal; utility improvements.*

1. Describe the current and future use of the project location. A land use map may be provided in lieu of a written description.  
No work involving ground disturbance or moving of soil is included in the project. All portions of the natural area are important to preserving ecological resource values of the site. The primary purpose of the County’s Natural Areas System is to protect native ecosystems and biological diversity throughout Palm Beach County. The primary purpose for the acquisition of this natural area was to preserve, restore/enhance and manage the site’s ecological resources, including the existing natural communities, their component plant and animal species, and local groundwater resources. Acquisition and development of the site as a natural area have provided the general public with opportunities for recreational activities, environmental education and scientific research which are consistent with the primary purpose of the site’s acquisition. It also has helped the County comply with portions of its comprehensive plan by preserving and restoring/enhancing the natural and historical resources of the natural area, while providing compatible public uses.
2. Provide information on any known site work or historic uses for project location.  
All of the natural areas has been modified by one or more past uses. Portions of the natural area have been modified by the creation of dirt trails, digging of borrow ditches, installation and maintenance of power lines, and unauthorized uses including off-highway vehicle (OHV) usage, dumping and camping. Most of the site was modified by past agricultural uses (primarily cattle grazing), and the entire site has been modified by drainage canals and nearby public water supply wells.
- ☐ Attach a copy of a city or county scale map (large enough to show the entire project area) with the horizontal limits (ft) and vertical depths (sq ft) of all anticipated ground disturbance.

D. Alternative Actions

The NEPA process requires that at least two alternative actions be considered that address the same problem/issue as the proposed project. In this section, list **two feasible** alternative projects to mitigate the hazards faced in the project area. One alternative is the “No Action Alternative.”

1. **No Action Alternative**  
Discuss the impacts on the project area if no action is taken.  
Project will be complete but over a much longer timeframe as funding becomes available. During that time, the areas remain vulnerable to wildfires and the hardous fuel loads at the sites will continue to accumalate and be a threat to surrounding public.
2. **Other Feasible Alternative**  
Discuss a feasible alternative to the proposed project. This could be an entirely different mitigation method or a significant modification to the design of the current proposed project. Complete *all* of parts **a-e** (below) and include engineering details (if applicable).

a. **Project Description for the Alternative**  
Describe, in detail, the alternative project. Also, explain how the alternative project will solve the problem(s) and/or provide protection from the hazard(s).

Prescribed burns can be used, but only with very specific weather conditions that are very limiting in urban areas. The limited opportunities will continue to allow natural areas to be vulnerable to wildfires if mechanical fuel reduction is not used in conjunction.

- b. **Project Location of the Alternative** (describe briefly)  
☐ Attach a map or diagram showing the alternative site in relation to the proposed project site  
☐ Photographs (2 copies) of alternative site

- c. **Scope of Work for Alternative Project**  
Use of prescribed burning to reduce hazardous fuel loads.

- d. **Impacts of Alternative Project**  
Below, discuss the impact of this alternative on the project area. Include comments on these issues as appropriate: Environmental Justice, Endangered Species, Wetlands, Hydrology (upstream and downstream surface water impacts), Floodplain/Floodway, Historic Preservation and Hazardous Materials.  
Risk of smoke impacting urban areas, risk of high intensity destructive fires impacts on habitat and species, risk of fire escaping burn unit, safety risk to fire staff, limited opportunities for completion due to need of stritct weather conditions.

- e. **Estimated Budget/Costs for Alternative Project**  
In this section, provide details of all the estimated costs of the alternative project (round figures to the nearest dollar). A lump sum budget is acceptable.

1. Materials

Item	Dimension	Quantity	Cost per Unit	Cost
Suppression Slip Units		4	18000	72,000
Swamp Buggy		1		70,000
ATVs		4	7,000	28,000
Trucks		4	36,000	144,000

2. Labor (Include equipment costs. Please indicate all “soft” or in-kind matches.)

Description of TaskHoursRateCost

Attach any continuations or additional items to this page

Prescribed Burn Staff of 24	12	1041	25,000

3. Fees Paid (Include any other costs associated with the project.)

<i>Description of Task</i>	<i>Hours</i>	<i>Rate</i>	<i>Cost</i>

Total Estimated Project Cost \$\_\_\_\_\_

DRAFT

Section V. Maintenance Agreement

*All applicants whose proposed project involves the retrofit or modification of existing public property or whose proposed project would result in the public ownership or management of property, structures, or facilities, must first sign the following agreement prior to submitting the application to FEMA.*

*(NOTE: Those applicants whose project only involves the retrofitting, elevation, or other modification to private property where the ownership will remain private after project completion DO NOT have to complete this form.)*

The \_\_\_\_\_ of \_\_\_\_\_, State of Florida, hereby agrees that if it receives any Federal aid as a result of the attached project application, it will accept responsibility, at its own expense if necessary, for the *routine* maintenance of any real property, structures, or facilities acquired or constructed as a result of such Federal aid. Routine maintenance shall include, but not be limited to, such responsibilities as keeping vacant land clear of debris, garbage, and vermin; keeping stream channels, culverts, and storm drains clear of obstructions and debris; and keeping detention ponds free of debris, trees, and woody growth.

The purpose of this agreement is to make clear the Subgrantee’s maintenance responsibilities following project award and to show the Subgrantee’s acceptance of these responsibilities. It does not replace, supercede, or add to any other maintenance responsibilities imposed by Federal law or regulation and which are in force on the date of project award.

Signed by \_\_\_\_\_ the duly authorized representative  
(printed or typed name of signing official)

\_\_\_\_\_,  
(title)

this \_\_\_\_\_ (day) of \_\_\_\_\_ (month), \_\_\_\_\_ (year).

Signature\* \_\_\_\_\_

*\*Please note: The above signature must be by an individual with legal signing authority for the respective local government or county (e.g., the Chairperson, Board of County Commissioners or the County Manager, etc.)*

**HMGP ENVIRONMENTAL REVIEW**  
*Information and Documentation Requirements by Project Type*

<i>Retrofits to Existing Facilities/Structures</i> <i>Elevations</i> <i>Acquisitions with Demolition</i>
<ul style="list-style-type: none"><li>✓ Dates of Construction</li><li>✓ Concurrence from State Historic Preservation Officer if structure is 50 years or older, if work to be done is outside the existing footprint or if there is six (6) inches or more of ground disturbance.</li></ul>

<i>Drainage Improvements</i>
<ul style="list-style-type: none"><li>✓ Engineering plans/drawings</li><li>✓ Permit or Exemption letter to address any modifications to water bodies and wetlands<ul style="list-style-type: none"><li>○ Department of Environmental Protection</li><li>○ Water Management District</li><li>○ U.S. Army Corps of Engineers</li></ul></li><li>✓ Concurrence letter from State Historic Preservation Office addressing archeological impacts. Required if there is six (6) inches or more of ground disturbance.</li><li>✓ Concurrence from U.S. Fish and Wildlife addressing any impacts to wildlife, particularly endangered and threatened species and their habitats.</li><li>✓ If the project is in coastal area, attach a letter from the National Marine Fisheries Service addressing impacts to marine resources.</li><li>✓ Concurrence from Natural Resource Conservation Service if project is located outside city limits and may impact prime or unique farmland.</li></ul>

*Note: This is a general guideline for most projects. However, there will be exceptions. Consult with environmental staff on project types not listed.*



STATE OF FLORIDA – HAZARD MITIGATION GRANT PROGRAM APPLICATION

THIS SECTION FOR STATE USE ONLY

FEMA- 4177-DR-FL

- ☐ Standard HMGP
- ☐ 5% Initiative Application
- ☐ Application Complete
- ☐ Standard FMA
- ☐ Initial Submission or
- ☐ Re- Submission

Support Documents

Eligible Applicant

Project Type(s)

- ☐ Conforms w/ State 409 Plan
- ☐ In Declared Area
- ☐ Statewide

- ☐ State or Local Government
- ☐ Private Non-Profit (Tax ID Received)
- ☐ Recognized Indian Tribe or Tribal Organization

- ☐ Wind
- ☐ Flood
- ☐ Other: \_\_\_\_\_

Community NFIP Status: (Check all that apply)

- ☐ Participating Community ID#: \_\_\_\_\_
- ☐ In Good Standing
- ☐ Non-Participating
- ☐ CRS

Reviewer Phone#: \_\_\_\_\_

Reviewer Fax#: \_\_\_\_\_

Reviewer E-Mail: \_\_\_\_\_

Date Application Received: \_\_\_\_\_

State Application ID: \_\_\_\_\_

State Reviewer: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

This application is for all Federal Emergency Management Agency (FEMA Region IV) Hazard Mitigation Grant Program (HMGP) proposals. Please complete ALL sections and provide the documents requested. If you require technical assistance with this application, please contact your State Emergency Management Division at (850) 922-5944.

A. To Fill Out This Application: Complete all sections that correspond with the type of proposed project

General Application Sections: All applicants must complete these sections

Environmental Review: All applicants must complete these sections

Maintenance Agreement: Any applications involving public property, public ownership, or management of property

Damage Frequency

Assessment Worksheet: Acquisition, Elevation, Floodproofing (if FIS and H&H are unavailable) -- one worksheet per structure

Flood-Drainage

Improvement Worksheet: Acquisition, Elevation, Floodproofing (if FIS and H&H are available) -- one worksheet per structure

Tornado Worksheet: Safe Room Projects only

Wind Retrofit Worksheet: Wind retrofit projects only -- one worksheet per structure

Request for Public

Assistance Form: FEMA Form 90-49 (Request for Public Assistance): All applicants must complete, if applicable.

Acquisition Forms: If project type is Acquisition, these forms must be completed.  
(Only one of the two Notice of Voluntary Interest forms is necessary.)

Model Statement of Assurances for Property Acquisition Projects  
Declaration and Release

Notice of Voluntary Interest (Town Hall Version)

Notice of Voluntary Interest (Single Site Version)

Statement of Voluntary Participation

FEMA Model Deed Restriction Language

Application Completeness  
Checklist:

All applicants are recommended to complete this checklist

B. Applicant Information

FEMA-4280 -DR-FL

DISASTER NAME: Hurricane Hermine

Ex., FEMA-1609-DR-FL: Hurricane Wilma

Title / Brief Descriptive Project Summary: Wildfire Mitigation on Palm Beach County Natural Areas

1. Applicant (Organization): Palm Beach County Department of Environmental Resources Management

2. Applicant Type:

☒ State or Local Government

☐ Recognized Native American Tribe

☐ Private Non-Profit

3. County: Palm Beach
4. State Legislative House District(s): 81,85,86,87,89,90,88 State Legislative Senate District(s): 25,27,34 Congressional House District(s): 20,21,22
5. Federal Tax I.D. Number: 85-8012622286C-8
6. Data Universal Numbering System (DUNS): 0784704810000
7. FIPS Code\*: N/A  
(\*if your FIPS code is not known, please fill out FEMA Form 90-49 (Request for Public Assistance) so that the Department may obtain a FIPS code for you)
8. National Flood Insurance Program (NFIP) Community Identification Number (this number can be obtained from the FIRM map for your area): N/A
9. NFIP Community Rating System Class Number (if available): N/A
10. NFIP Last Community Assistance Visit Date (FMA ONLY): N/A
11. Attach proof of current Flood Insurance Policy (FMA ONLY): N/A

12. **Point of Contact**

☐ Ms. ☒ Mr. ☐ Mrs. First Name: Daniel Last Name: Bates  
Title: Deputy Director, Palm Beach County Department of Environmental Resources Management  
Street Address: 2300 N. Jog Rd. 4<sup>th</sup> Floor  
City: West Palm Beach State: FL Zip Code: 33411  
Telephone: 561-233-2445 Fax: 561-233-2414  
Email Address: DBates@pbcgov.org

13. **Application Prepared by**

☐ Ms. ☒ Mr. ☐ Mrs. First Name: Harper Last Name: Carroll  
Title: \_\_\_\_\_ Telephone: 561-233-2561 Fax: 561-233-2414  
Email Address: hcarroll@pbcgov.org

14. **Authorized Applicant Agent (proof of authorization authority required)**

☒ Ms. ☐ Mr. ☐ Mrs. First Name: Paulette Last Name: Burdick  
Title: Mayor, Palm Beach County Board of County Commissioners  
Telephone: 561-355-2202 Fax: 561-355-6277  
Street Address: 301 North Olive Ave., Suite 1201.  
City: West Palm Beach State: FL Zip Code: 33401  
Email Address: pburdick@pbcgov.org

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

15. All proposed projects should be included in the county's Local Mitigation Strategy (LMS). Attached is a letter of endorsement for the project from the county's Local Mitigation Strategy Chairperson. ☒ Yes ☐ No
16. Has this project been submitted and/or funded under a previous disaster event? If so please provide the disaster number and project number if available. No

## Section I. Project Description

### A. Hazards to be Mitigated / Level of Protection

1. Select the type of hazards the proposed project will mitigate:  
☐ Flood ☐ Wind ☐ Storm surge ☒ Other (list): Wildfire
2. Identify the type of proposed project:  
☐ Elevation and retrofitting of residential or non-residential structure  
☐ Acquisition and relocation ☐ Acquisition and demolition  
☐ Wind retrofit ☐ Minor drainage project that reduces localized flooding

Attach any continuations or additional items to this page

Section III. Budget/Costs

In this section, provide details of all the estimated costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. **Do not** include contingency costs in the budget. *Avoid the use of lump sum costs.*

*Note: To be eligible for HMA funding, pre-award costs must be identified as separate line items in the cost estimate of the application. This must be done in addition to filling out the HMGP Pre-Award Cost Request Form. Please mark each pre-award cost with an asterisk (\*).*

A. Materials

Item	Dimension	Quantity	Cost per Unit	Cost

B. Labor (Include equipment costs. Please indicate all “soft” or in-kind matches. All in-kind match must be identified in the Section III. Budget/Costs of this application.)

Description	Hours	Rate	Cost
Hydraulic Excavator min 175HP w/independently powered rotating drum type mulcher	4615	162.5/hr.	750000

C. Fees Paid (Include any other costs associated with the project.)

Description of Task	Hours	Rate	Cost

Total Estimated Project Cost \$ \_\_\_\_\_

B. Flood Insurance Rate Map (FIRM) showing Project Site

<input type="checkbox"/> Attach two (2) copies of the FIRM map, a copy of the panel information from the FIRM, and, if available, the Floodway Map. <i><b>FIRM maps are required for this application (if published for your area). Also, all attached maps must have the project site and structures clearly marked on the map.</b></i> FIRM maps are typically available from your local floodplain administrator who may be located in a planning, zoning, or engineering office. Maps can also be ordered from the Map Service Center at 1-800-358-9616. For more information about FIRMs, contact your local agencies or visit the FIRM site on the FEMA Web-page at <a href="https://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&amp;catalogId=10001&amp;langId=-1">https://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&amp;catalogId=10001&amp;langId=-1</a>	
Using the FIRM, determine the flood zone(s) of the project site (Check all zones in the project area).	
(See FIRM legend for flood zone explanations) (A Zone must be identified)	
<input type="checkbox"/> VE or V 1-30	<input type="checkbox"/> AE or A 1-30
<input type="checkbox"/> AO or AH	<input type="checkbox"/> A (no base flood elevation given)
<input type="checkbox"/> B or X (shaded)	<input type="checkbox"/> C or X (unshaded)
<input type="checkbox"/> Floodway	
<input type="checkbox"/> Coastal Barrier Resource Act (CBRA) Zone (Federal regulations strictly limit Federal funding for projects in this zone. Please coordinate with your state agency before submitting an application for a CBRA Zone project).	
<input type="checkbox"/> <b>If the FIRM Map for your area is not published</b> , please attach a copy of the Flood Hazard Boundary Map (FHBM) for your area, with the project site and structures clearly marked on the map.	

☐ Attach a copy of a Special Flood Hazard Area Flood Insurance Assurance(s).

C. City or County Map with Project Site and Photographs

- ☒ Attach a copy of a city or county scale map (large enough to show the entire project area) with the project site and structures marked on the map.
- ☒ Attach a USGS TOPO map with project site *clearly* marked on the map.
- ☐ For **acquisition** or **elevation** projects, include copy of Parcel Map (Tax Map, Property Identification Map, etc.) showing each property to be acquired. The map should include the Tax ID numbers for each parcel, if possible.
- ☒ Attach photographs (a minimum of 2 photographs) for each project site per application. The photographs should be representative of the project area, including any relevant streams, creeks, rivers, etc., and drainage areas, which affect the project site or will be affected by the project. For each structure, please include the following angles: front, back and both sides.

medical facilities, airports and other smoke sensitive areas for days. (Attachment #1).

ERM staff prioritize the risk factors at each site for mechanical fuel reduction treatments by evaluating risks such as proximity to structures and roads, fuel types, the amount of time since last fire or fuel reduction and reviewing the Board of County Commissioner's approved management plan for the site. After this assessment is made, orders are placed with a vendor on County contracts to come onto the site to mulch the vegetation to the ground. Once the fuels are reduced, the threat of an out of control wildfire is significantly reduced. ERM staff then use existing equipment to keep the vegetation at a low level to maintain the reduced wildfire threat. ERM has received praise from County and municipal fire departments and the Florida Forest Service (FFS) for its proactive management of these WUI areas.

3. Describe the type(s) of protection that the proposed project will provide: Facilities such as residences, businesses, motorists, assisted living facilities, health facilities, power infrastructure and schools are all at risk to both the initial wildfire and secondary affects such as closed roads and smoke exposure. When wildfires occur in highly populated areas, not only are neighboring residences and businesses effected, but the smoke from the wildfires will likely effect roads, schools, medical facilities, airports and other smoke sensitive areas for days. This project will greatly reduce the likelihood of out of control wildfires, along with all of the negative impacts of the smoke.

4. Scope of Work (describe in detail what you are planning to do): The Project will involve mechanical chopping/shredding of vegetation and reducing highly flammable fuel loads of saw palmetto and other shrubs that have encroached and increased in the midstory of the habitats. The County will utilize an excavator with a drum chopping head (Brontosaurus) to reduce overgrown vegetation in the midstory to mitigate the risk of wildfire and to allow for lower fire intensity during prescribed burns. The project will be implemented using a vendor from one of the County's master agreements work will commence once funding is approved.

5. Describe any other on-going or proposed projects in the area that may impact, positively or negatively, the proposed HMGP or FMA project: N/A

## Section II. Project Location (Fully describe the location of the proposed project.)

### A. Site

1. Describe the physical location of this project, including street numbers (or neighborhoods) and zip codes. If available, please provide precise longitude and latitude coordinates for the site utilizing a hand-held global positioning system (GPS) unit or the equivalent: See Figure 1a, 1b and 2a, 2b
2. Title Holder: Palm Beach County Board of County Commissioners
3. Is the project site seaward of the Coastal Construction Control Line (CCCL)? ☐ YES ☒ NO
4. Provide the number of each structure type (listed below) in the project area that will be affected by the project. That is, *all* structures in project area.

<input checked="" type="checkbox"/> Residential property: See Fig. 1a	<input checked="" type="checkbox"/> Businesses/commercial property: See Fig. 1a
<input type="checkbox"/> Public buildings: _____	<input checked="" type="checkbox"/> Schools/hospitals/houses of worship: See Fig. 1a
<input checked="" type="checkbox"/> Other: <u>Natural Areas</u>	

☒ Other (please explain) Mechanical reduction of volatile vegetation (fuel) to reduce the risk of a catastrophic wildfire that are in close proximity of homes.

3. List the total number of persons that will be protected by the proposed project: 1.4 million people live in Palm Beach County. ERM manages 31,387 acres at 37 Natural Areas located in highly populated areas of eastern Palm Beach County. The most significant WUI threats in the County are from pine flatwoods and scrub vegetation communities. In coastal areas, the scrub community is most dominant while it is expected to burn at an interval between 10 and 30 years, many of these areas have not burned in more than 50 years. The dominant upland vegetation community west of Interstate 95 out to the Acreage is pine flatwoods. Pine flatwoods are expected to burn at an interval between 2 and 8 years, but many of the areas have not burned in more than 25 years. Due to the large amounts of available fuels in these communities, it is not whether a wildfire will occur but rather when it will occur. When wildfires occur in highly populated areas, not only are neighboring residences and businesses affected, but the smoke from the wildfires will likely affect roads, schools, medical facilities, airports and other smoke sensitive areas for days.

4. Fill in the level of protection and the magnitude of event the proposed project will mitigate.  
(e.g. 23 structures protected against the 100-year [1%] flood)

structure(s) protected against the                      -year Flood (10, 25, 50, 100, or 500 year)

structure(s) protected against                      mile per hour (mph) winds

5. **Engineered projects only** (e.g. Drainage Improvements, Erosion Control or other special project types. [Other special project types include drainage and other engineered projects. These projects are unlike acquisition, elevation or wind retrofits/shutters.]) Attach to this page **ALL** engineering calculations and design plans used to determine the above level of protection.

6. Project will provide protection against the hazard(s) above for 10 years. (i.e., what is the useful life of the project?)

## B. Project Description, Scope of Work, and Protection Provided (Must be Completed in Detail)

1. Describe, in detail, the existing problem, the proposed project, and the scope of work. Explain how the proposed project will *solve* the problem(s) and provide the level(s) of protection described in Part A. Also, if available, attach a vendor's estimate and/or a contractor's bid for the scope of work. ***Please ensure that each proposed project is mitigation and not maintenance.***

2. Description of the existing problems: Because of development, natural, lightning-induced fire can no longer fulfill the needs of natural communities in the County which are dependent upon fire for their long-term survival (for example, basin marsh, depression marsh, dome swamp, mesic flatwoods, scrub, scrubby flatwoods, slough marsh, wet flatwoods and wet prairie). Natural fire can no longer spread from adjacent lands onto the natural area because all of the surrounding fire-dependent communities have been lost to development. When natural fire does occur within or adjacent to the natural area it is quickly extinguished due to the threat it poses to adjacent developed areas. Controlled, prescribed fire and mechanical fuel reduction activities will be used at this site to help maintain the existing fire-dependent communities and reduce the risk of damage from wildfire on the adjacent developed areas. Wildfire mitigation is the proactive implementation of measures designed to minimize the destructive effects of wildfires. One of the most effective mitigation activities is mechanical fuel reduction treatments, such as mulching and mowing. Palm Beach County's Department of Environmental Resources Management (ERM) conducts wildfire mitigation activities throughout the year to help protect communities adjacent to ERM managed Natural Areas from wildfires. Mitigation activities are conducted in high-risk wildland-urban interface (WUI) communities. The WUI refers to those areas where structures are adjacent to natural vegetation. The wildfire risk of an area is determined by a number of factors, including the amount and types of vegetation present and how it is arranged in the landscape.

ERM manages 31,387 acres at 37 Natural Areas located in highly populated areas of eastern Palm Beach County. The most significant WUI threats in the County are from pine flatwoods and scrub vegetation communities. In coastal areas, the scrub community is most dominant while it is expected to burn at an interval between 10 and 30 years, many of these areas have not burned in more than 50 years. The dominant upland vegetation community west of Interstate 95 out to the Acreage is pine flatwoods. Pine flatwoods are expected to burn at an interval between 2 and 8 years, but many of the areas have not burned in more than 25 years. Due to the large amounts of available fuels in these communities, it is not whether a wildfire will occur but rather when it will occur. When wildfires occur in highly populated areas, not only are neighboring residences and businesses affected, but the smoke from the wildfires will likely affect roads, schools,

**D. Funding Sources** (Round figures to the nearest dollar.)

*The maximum FEMA share for HMGP projects is 75%.* The other 25% can be made up of State and Local funds as well as in-kind services. The FMA program requires that the maximum in-kind match be no more than 12.5% of the total project costs. HMGP/FMA funds may be packaged with other Federal funds, but other Federal funds (except for Federal funds that lose their Federal identity at the State level such as CDBG and certain tribal funds) may not be used for the non-Federal share of the costs.

<i>Estimated FEMA Share</i>	\$ 562,500	75 % of Total (maximum of 75%)
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### *Non-Federal Share*

Estimated Local Share	\$ 93,750	12.5 % of Total (Cash)
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\$ 93,750	12.5 % of Total (In-kind*)
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\$ % of Total (Project Global Match\*\*)

Global Match Project Title:

<i>Other Agency Share</i>	\$	% of Total
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(Identify Other Non-Federal Agency and availability date: )

<i>Total Funding sources from above</i>	\$ 750,000	100 <b>Total %</b> (should equal 100%)
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\*Identify proposed eligible activities directly related to project to be considered for In-kind services. (Note on Section B)

**\*\*Separate project application must be submitted for each project (Global) Match project.**

### E. Project Milestones/Schedule of Work

List the major milestones in this project by providing an estimated time-line for the critical activities not to exceed a period of 3 years for performance, e.g. Designing, Engineering, Permitting, etc. These milestones should correspond with the scope of work and budget.

[illegible]





Section IV. Environmental Review and Historic Preservation Compliance

(NOTE: This application cannot be processed if this section is not completed.)

Because HMGP/FMA are federally funded programs, all projects are required to undergo an environmental and historic preservation review as part of the grant application process. Moreover, all projects must comply with the National Environmental Policy Act (NEPA) and associated Federal, State, Tribal, and Local statutes to obtain funding. **NO WORK can be done prior to the NEPA review process. If work is done on your proposed project before the NEPA review is completed, it will NOT be eligible for Federal funding.**

A. The following information is required for the Environmental and Historic Preservation review:

*All projects must have adequate documentation to determine if the proposed project complies with NEPA and associated statutes. The State Environmental Staff provide comprehensive NEPA technical assistance for applicants, with their consent, to complete the NEPA review. The type and quantity of NEPA documents required to make this determination varies depending upon the project's size, location, and complexity. However, at a minimum, please provide the applicable documentation from this section to facilitate the NEPA compliance process.*

- ☒ Detailed project description, scope of work, and budget/costs (Section I and Section III of this application).
- ☒ Project area maps with project site and staging area marked (Section II, part B & C of this application).
- ☒ Project area/structure photographs (Section II, part C of this application).
- ☐ Preliminary project plans.
- ☐ Project alternatives description and impacts (Section IV of this application).
- ☐ Please complete the applicable project worksheets. Dates of construction are required for all structures.
- ☐ Environmental Justice – Attach documents regarding evaluation (required) and satisfactory resolution (if necessary) of Environmental Justice issues (Highly Disproportionate, Adverse Impacts [effects] on Minority or Low Income Populations.) Documents can include public meeting records, media reports, letters from interested persons and groups, studies on population, ethnic groups, quality of life, housing, economics, transportation, public services, schools, public health, recreation, voting, etc.
- ☐ Provide any applicable information or documentation referenced on the *Information and Documentation Requirements by Project Type* (p. 10 of this application).

B. Executive Order 12898, Environmental Justice for Low Income and Minority Population

Are there low income or minority populations in the project area or adjacent to the project area? If yes, please describe any disproportionate and adverse effects to these populations.

To help evaluate the impact of the project, please indicate below any other information you are providing:

- ☐ Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts in your proposal narrative and budget.
- ☐ Attached materials or additional comments.

C. Information required for Tribal Consultations

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effect of their undertakings on historic properties. The NHPA requires that agencies must complete this process prior to the expenditure of any Federal funds on the undertaking. A Tribal Consultation is required for any project disturbing ground or moving soil, including but not limited to: drainage projects; demolition; construction; elevation; communication towers; tree removal; utility improvements.

1. Describe the current and future use of the project location. A land use map may be provided in lieu of a written description.  
No work involving ground disturbance or moving of soil is included in the project. All portions of the natural area are important to preserving ecological resource values of the site. The primary purpose of the County's Natural Areas System is to protect native ecosystems and biological diversity throughout Palm Beach County. The primary purpose for the acquisition of this natural area was to preserve, restore/enhance and manage the site's ecological resources, including the existing natural communities, their component plant and animal species, and local groundwater resources. Acquisition and development of the site as a natural area have provided the general public with opportunities for recreational activities, environmental education and scientific research which are consistent with the primary purpose of the site's acquisition. It also has helped the County comply with portions of its comprehensive plan by preserving and restoring/enhancing the natural and historical resources of the natural area, while providing compatible public uses.
2. Provide information on any known site work or historic uses for project location.  
All of the natural areas has been modified by one or more past uses. Portions of the natural area have been modified by the creation of dirt trails, digging of borrow ditches, installation and maintenance of power lines, and unauthorized uses including off-highway vehicle (OHV) usage, dumping and camping. Most of the site was modified by past agricultural uses (primarily cattle grazing), and the entire site has been modified by drainage canals and nearby public water supply wells.
- ☐ Attach a copy of a city or county scale map (large enough to show the entire project area) with the horizontal limits (ft) and vertical depths (sq ft) of all anticipated ground disturbance.

D. Alternative Actions

The NEPA process requires that at least two alternative actions be considered that address the same problem/issue as the proposed project. In this section, list **two feasible** alternative projects to mitigate the hazards faced in the project area. One alternative is the "No Action Alternative."

1. **No Action Alternative**  
Discuss the impacts on the project area if no action is taken.  
Project will be complete but over a much longer timeframe as funding becomes available. During that time, the areas remain vulnerable to wildfires and the hardous fuel loads at the sites will continue to accumalate and be a threat to surrounding public.
2. **Other Feasible Alternative**  
Discuss a feasible alternative to the proposed project. This could be an entirely different mitigation method or a significant modification to the design of the current proposed project. Complete *all* of parts **a-e** (below) and include engineering details (if applicable).

a. **Project Description for the Alternative**  
Describe, in detail, the alternative project. Also, explain how the alternative project will solve the problem(s) and/or provide protection from the hazard(s).  
  
Prescribed burns can be used, but only with very specific weather conditions that are very limiting in urban areas. The limited opportunities will continue to allow natural areas to be vulnerable to wildfires if mechanical fuel reduction is not used in conjunction.

- b. **Project Location of the Alternative** (describe briefly)  
☐ Attach a map or diagram showing the alternative site in relation to the proposed project site  
☐ Photographs (2 copies) of alternative site

- c. **Scope of Work for Alternative Project**  
Use of prescribed burning to reduce hazardous fuel loads.

- d. **Impacts of Alternative Project**  
Below, discuss the impact of this alternative on the project area. Include comments on these issues as appropriate: Environmental Justice, Endangered Species, Wetlands, Hydrology (upstream and downstream surface water impacts), Floodplain/Floodway, Historic Preservation and Hazardous Materials.  
Risk of smoke impacting urban areas, risk of high intensity destructive fires impacts on habitat and species, risk of fire escaping burn unit, safety risk to fire staff, limited opportunities for completion due to need of strict weather conditions.

- e. **Estimated Budget/Costs for Alternative Project**  
In this section, provide details of all the estimated costs of the alternative project (round figures to the nearest dollar). A lump sum budget is acceptable.

1. Materials

Item	Dimension	Quantity	Cost per Unit	Cost
Suppression Slip Units		4	18000	72,000
Swamp Buggy		1		70,000
ATVs		4	7,000	28,000
Trucks		4	36,000	144,000

2. Labor (Include equipment costs. Please indicate all “soft” or in-kind matches.)

Description of Task	Hours	Rate	Cost
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Prescribed Burn Staff of 24	12	1041	25,000

3. Fees Paid
(Include any other costs associated with the project.)

Description of Task	Hours	Rate	Cost

Total Estimated Project Cost \$