EXHIBIT 14 ENDANGERED SPECIES STUDY

(Full Report)

ENGLAND INDUSTRIAL DEVELOPMENT DISTRICT ALEXANDRIA, LOUISIANA



HEAVY INDUSTRIAL SITE W2 SITE CERTIFICATION PROGRAM

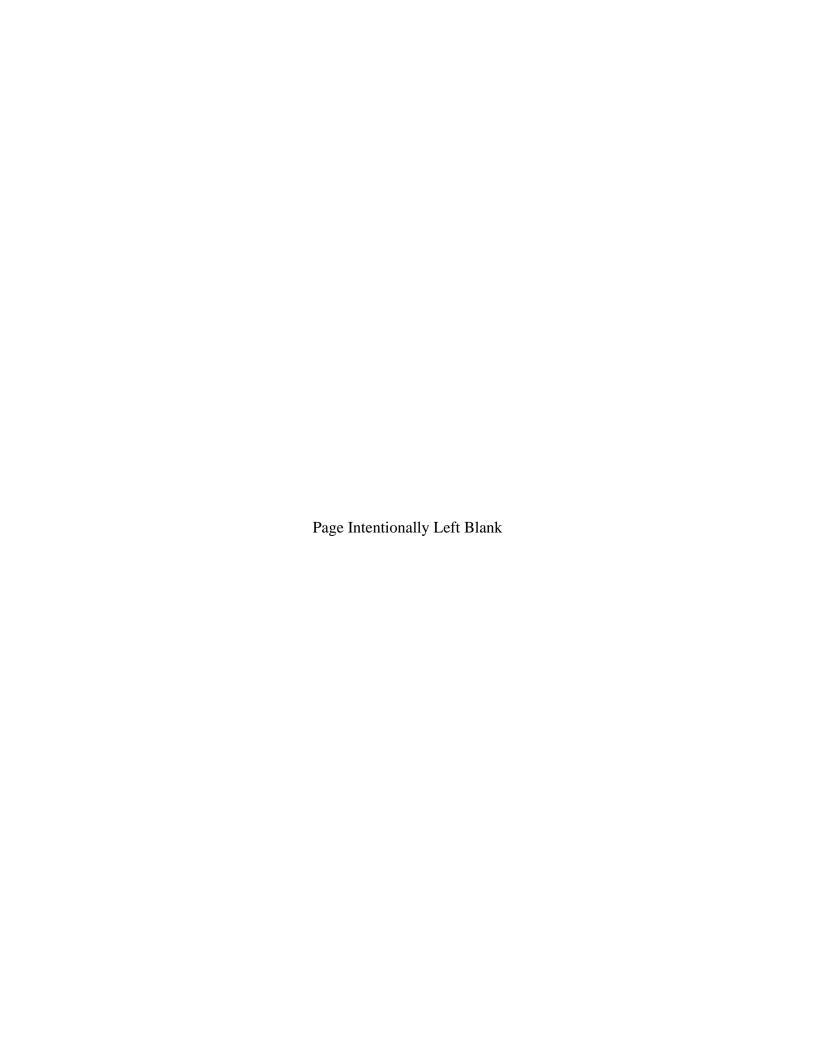
THREATENED AND ENDANGERED SPECIES STUDY

MARCH 19, 2015

PAN AMERICAN ENGINEERS, LLC 1717 JACKSON ST. – P.O. BOX 89 ALEXANDRIA, LA 71309 (318) 473-2100 (318) 473-2275 - FAX panam@paealex.com PAE PROJECT NO. 10224









England Airpark Site W2 Certification Threatened and Endangered Species Study March 19, 2015

THREATENED AND ENDANGERED SPECIES STUDY

1.1 Proposed Action

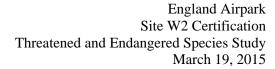
The England Economic and Industrial Development District (EEIDD), also known as the England Authority, is proposing to develop a piece of property as a heavy industrial site. The site will consist of streets, utilities, and other amenities to provide lots and acreage for future industrial purposes. The site is shown in Appendix A.

1.2 Affected Environment

The Endangered Species Act (ESA) [16 U.S.C. 1532 et. seq.] of 1973, as amended, was enacted to provide a program for the preservation of endangered and threatened species and to provide protection for the ecosystem upon which these species depend for their survival. All Federal agencies are required to implement protection programs for designated species and to use their authorities to further the purposes of the act. Responsibility for the identification of a threatened or endangered species and development of recovery plans lies with the Secretary of the Interior and the Secretary of Commerce.

The United States Fish and Wildlife Services (USFWS) and the National Marine Fisheries Service (NMFS) are the primary agencies responsible for implementing the ESA. The USFWS is responsible for birds, terrestrial, and freshwater species, while the NMFS is responsible for non-bird marine species. The USFW's responsibilities under the ESA include: (1) the identification of threatened and endangered species; (2) the identification of critical habitats for listed species; (3) implementation of research on, and recovery efforts for, these species; and (4) consultation with other Federal agencies concerning measures to avoid harm to listed species. An endangered species is a species in danger of extinction throughout all or a significant portion of its range. A threatened species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range. Proposed species are those that have been formally submitted to Congress threatened when any of the five following criteria occur: (1) the current/imminent destruction, modification, or curtailment of their habitat or range; (2) overuse of the species for commercial, recreational, scientific, or educational purposes; (3) disease or predation; (4) the inadequacy of existing regulatory mechanisms; and (5) other natural or human-induced factors affection continued existence.

In addition, the USFWS has identified species that are candidates for listing as a result of identified threats to their continued existence. The "candidate" designation includes those species for which the USFWS has sufficient information on hand to support proposals to list as endangered or threatened under the ESA. However, proposed rules have not yet been issued because such actions are precluded at present by other listing activity.





The ESA also calls for the conservation of "Critical Habitat" – the areas of land, water, and air space that an endangered species needs for survival. Critical habitat also includes such things as food and water, breeding sites, cover or shelter, and sufficient habitat area to provide for normal population growth and behavior.

1.3 Federally Listed Species

Four federally listed species occur within Rapides Parish; the red-cockaded woodpecker (*Picoides borealis*), the Louisiana pine snake (*Pituophis melanoleucus ruthveni*), the Louisiana Pearlshell (*Margaritifera hembeli*), and the Interior Least Tern (*Sternula antillarum athalassos*). (See Table 1-1) Correspondence was submitted to the USFWS on January 22, 2015 regarding threatened and endangered species in the vicinity of the subject property. An updated project map was submitted on February 12, 2015. The USFWS replied on February 24, 2015 and March 11, 2015, stating that the project, as proposed, will have no effect on the resources listed above in paragraph 1.2.

Table 1-1 Federally Protected Species Inhabiting Rapides Parish, Louisiana

Common (Scientific) Name	Status	Habitat
Red-cockaded woodpecker (Picoides borealis)	Endangered	Open stands of pines with a minimum age of 80 to 120 years.
Bald Eagle (Haliaeetus leucocephalus)	Delisted*	Quiet areas, rivers, or lakeshores with large, tall trees.
Louisiana pine snake (Pituophis melanoleucus ruthveni)	Candidate	Sandy soils in longleaf pine forest.
Louisiana Pearlshell (Magaritifera hembeli)	Threatened	Flowing water at depths ranging from 12 to 20 inches on sand and gravel substrates. The surrounding forest community is mixed hardwood-loblolly pine with a typical canopy closure of 75 to 100 percent.
Interior Least Tern (Sternula antillarum athalassos)	Endangered	Nesting habitat includes bare or sparsely vegetated sand, shell, and gravel beaches, sandbars, islands, and salt flats associated with rivers and reservoirs.

Source: LDWF 2015

1.4 State-Listed Species

The Louisiana Natural Heritage Program (LNHP), part of the Louisiana Department of Wildlife and Fisheries (LDWF), maintains lists of Species of Concern (SOC). This list includes species whose occurrence in Louisiana is or may be in jeopardy, or with known or perceived threats or population declines. These species are not necessarily the same as those protected by the Federal government under the ESA. A complete list of state-protected species can be found in Appendix D of this document.

^{*}The bald eagle receives Federal protection despites its removal from the Federal Threatened and Endangered species list under the Bald and Golden Eagle Protection Act.



England Airpark Site W2 Certification Threatened and Endangered Species Study March 19, 2015

The LDWF was contacted on January 22, 2015, an update was submitted on February 12, 2015, and the LDWF responded on March 6, 2015 stating that after careful review of their database, no impacts to rare, threatened, or endangered species or critical habitats are anticipated for the proposed project. They also noted that no state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specified site within Louisiana's boundaries.

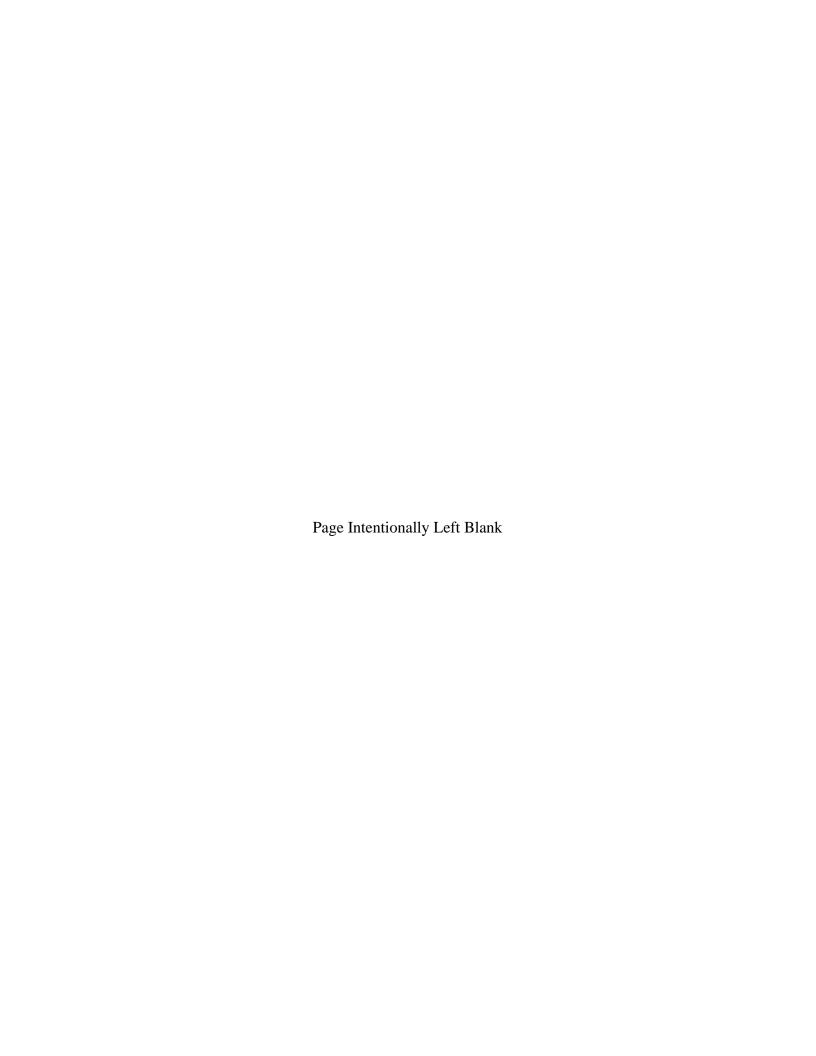
1.5 Conclusion

Based upon the comments received from the various federal and state agencies (attached hereto in Appendix C) regarding endangered and threatened species; and other potential environmental impacts, it is our opinion that the development of the piece of property for heavy industrial purposes (i.e. Industrial Park type setting), will have no impact to any threatened or endangered species.

According to the ESA, a significant impact on threatened and endangered species would occur if any action resulted in a jeopardy opinion for any endangered, threatened, or rare species. No federally or state listed species or breeding habitat for those species has been identified at the proposed site. Thus, there are no anticipated cumulative impacts to threatened and endangered species.

Please note that this Endangered and Threatened Species Study does not include wetlands delineations or any determinations of wetlands on the site. The wetlands delineation is established under a separate Study.





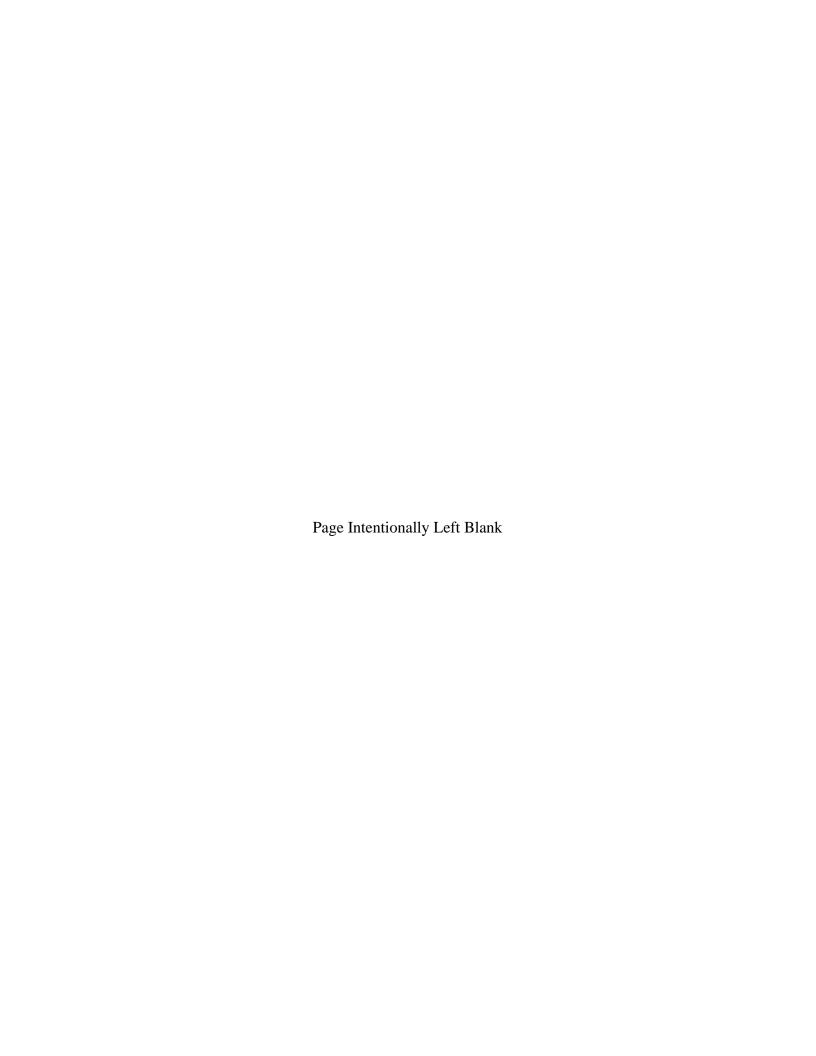


Appendix A

Site Drawing



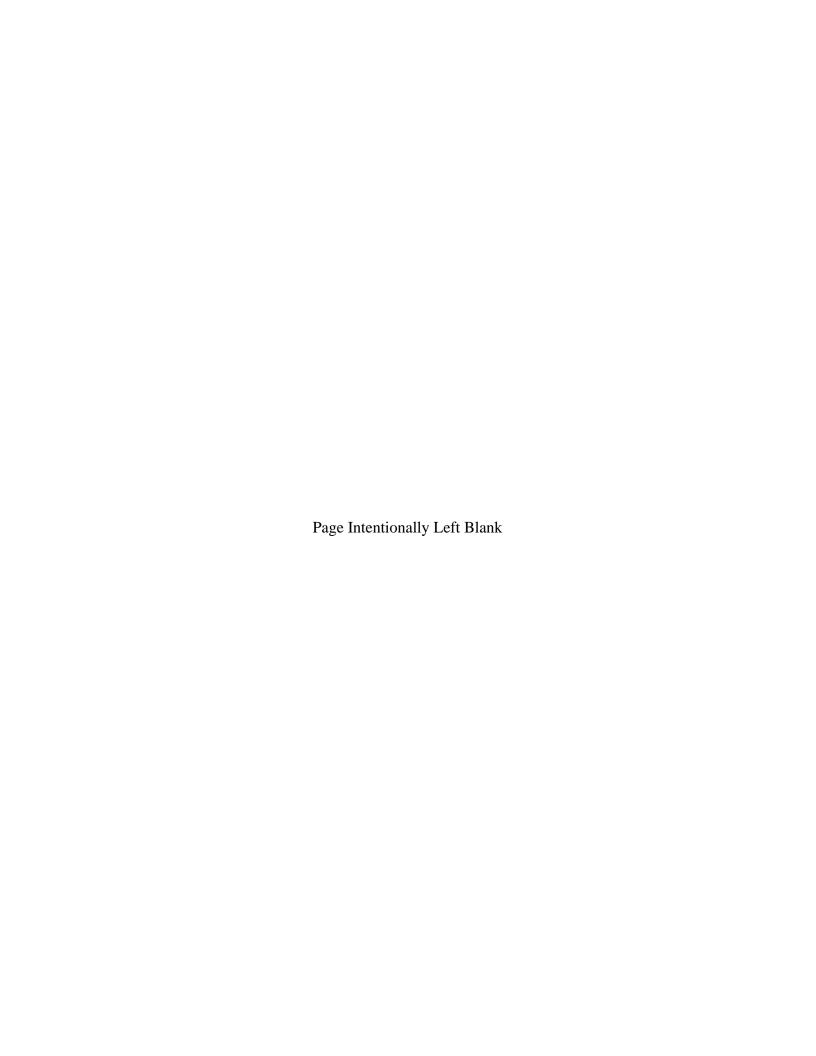
Updated Project Location Map Site W2 Located in Red





Appendix B

Federal and State Response Queries



January 22, 2015

U. S. Fish and Wildlife Services 646 Cajun Dome Blvd., Suite 400 Lafayette, Louisiana 70506

Attention: Biological Science Technician

PAN AMERICAN
ENGINEERS
ALEXANDRIA - INC.
Consulting Professional
Engineers and Land Surveyors

Re: England Airpark

Site W2 Certification PAE Job No. 10224

Dear Sir or Madam:

The England Economic and Industrial Development District (England Authority) is working to obtain Site Certification on a piece of property located in Alexandria, Rapides Parish, Louisiana west of the Alexandria International Airport. The site is being proposed to be developed into an Industrial Park. Please review attached map for project location.

We are seeking consultation with your agency regarding any concerns you may have with regard to Threatened and Endangered Species, Critical Habitat, Vegetation, Fish and Wildlife, and Wild and Scenic Rivers. Should you have concerns on these matters or you feel this project will have an adverse effect on this area, please contact us so that we can discuss mitigation measures and incorporate such into the development of the project plan.

The England Authority also respectfully requests that your agency provide a list of sensitive species and land issues that occur within the project areas, along with a description of the sensitive resources and a location map for those resources that you believe may be affected with future industrial use.

Please review this information and forward your comments to England Economic and Industrial Development District c/o Pan American Engineers, Attention: Kyle Randall, P.O. Box 89, Alexandria, Louisiana 71309. If you have any questions or require additional information, please do not hesitate to contact our office for assistance.

Yours very truly,

PAN AMERICAN ENGINEERS, LLC

Kyle Randall

KR/sjk Enclosure

cc: England Economic and Industrial Development District

Attention: Mr. David Broussard, Airpark Development Manager

February 12, 2015

U. S. Fish and Wildlife Services 646 Cajun Dome Blvd., Suite 400 Lafayette, Louisiana 70506

Attention: Biological Science Technician

PAN AMERICAN
ENGINEERS
ALEXANDRIA - INC.
Consulting Professional

Engineers and Land Surveyors

Re:

England Airpark Site W2 Certification PAE Job No. 10224

Dear Sir or Madam:

A letter was sent to your office dated January 22, 2015 requesting consultation with your agency regarding any concerns with the projects impact on Threatened and Endangered Species, Critical Habitat, Vegetation, Fish and Wildlife, or Wild and Scenic Rivers. Since then, the project boundary has changed. Please find the enclosed updated Project Location Map outlining the correct boundary for Site W2.

Please review this information and forward your comments to England Economic and Industrial Development District c/o Pan American Engineers, Attention: Kyle Randall, P.O. Box 89, Alexandria, Louisiana 71309. If you have any questions or require additional information, please do not hesitate to contact our office for assistance.

Yours very truly,

PAN AMERICAN ENGINEERS, LLC

Kyle Randall

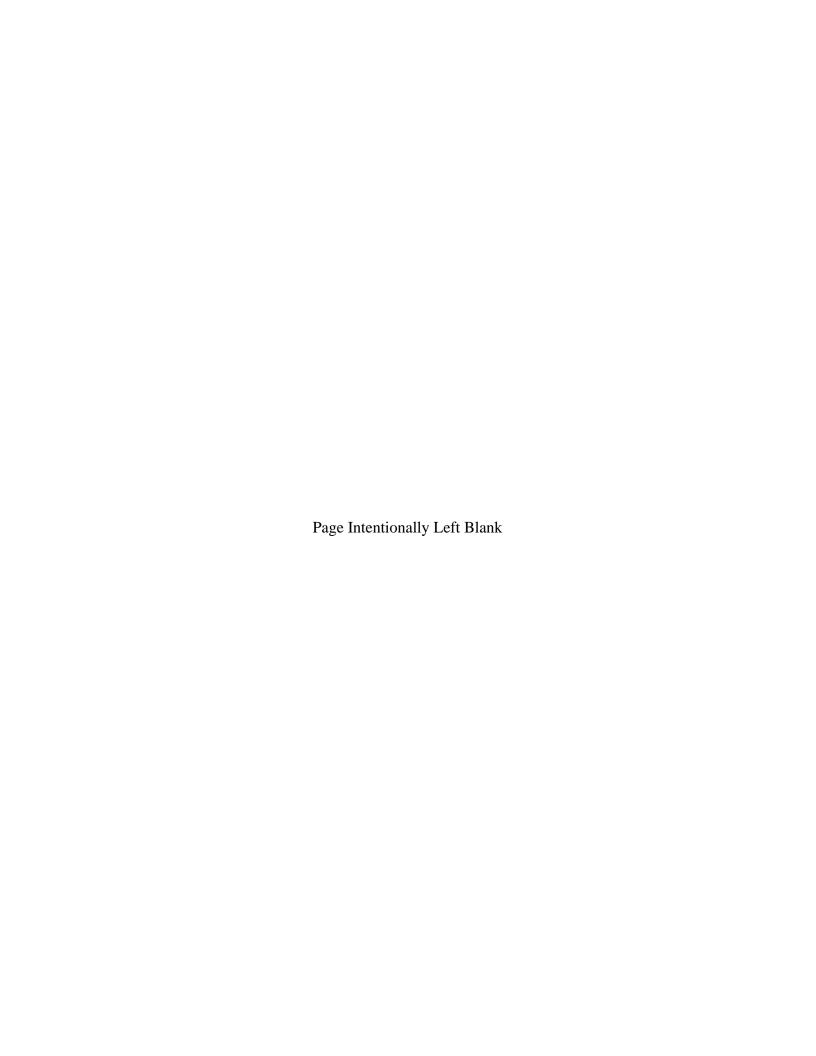
KR/sjk Enclosure

cc: E1

England Economic and Industrial Development District Attention: Mr. David Broussard, Airpark Development Manager



Updated Project Location Map Site W2 Located in Red





Louisiana Ecological Services Office ESA Technical Assistance Form

General Information

Name: Pan American Engineers, LLC

Point of Contact: Carson Schexnaider

Address: 1717 Jackson Street

City: Alexandria

State: Louisiana

Zip Code: 71309

Phone Number 1: (318) 473-2100

Phone Number 2: ____

Email Address: carson@paealex.com

Proposed Project Information

Project Reference ID: 4184

Project Latitude: 31.334321 Project Longitude: -92.567109

Project Parish(es): Rapides

Project Description: The England Economic and Industrial District (EEID), also known as the England Authority, is proposing to develop a heavy industrial site. The site will consist of streets, utilities, and other amenities to provide lots and acreage for future industrial purposes.

The information provided indicates that: (1) your project occurs in a parish where one or more federally listed species and/or their critical habitat may occur; and (2) may involve disturbance or clearing of previously undisturbed areas or may involve new construction activities that may negatively impact surrounding potential

Based on these factors, this project requires further review. You may submit your project information and a request for review via fax or mail to the Louisiana Ecological Services Office at the one of the addresses below in order to complete coordination under Section 7(a)(2) of the Endangered Species Act of 1973 (Act).

Please include the following project information in your submission:

- · Full Project description of work to be completed
- Project Contact name and number
- · Project Location in latitude and longitude, including staging areas
- · Approximate date for project to begin and end
- · A copy of this pre-development coordination report
- · Any other information that may be helpful for our review process

Please keep a copy of this pre-development coordination for your records.

Mailing Address: 646 Cajundome Blvd., Suite 400, Lafayette, LA 70506 Attn: Biological Science Technician Email: Lafayette@fws.gov

Fax: 337/291-3139

If you have additional questions, please contact Louisiana ES Office Biological Science Technician at 337/291-3100 for further assistance.



Louisiana Ecological Services Office ESA Technical Assistance Form

Project Type: Other

Does the project propose to obtain, remodel, refurbish, or rehabilitate existing structures in such a way that does not significantly alter the present capacity or use, and does not alter surrounding land areas that were previously undisturbed? **No**

Does the project propose to reconstruct, resurface, or enhance infrastructure and/or cityscape (e.g. streets, sewers, sidewalks, etc.) within the current footprint of the infrastructure and in a manner that does not disturb previously undisturbed ground? **No**

Is the construction project located entirely within the footprint of an established urban/suburban area (incorporated villages, towns, or cities)? **No**

Does the project propose to do general construction or clearing in an area that has been previously undisturbed or would it occur within or adjacent to the Amite River, Bayou Bartholomew, or a stream in Grant or Rapides Parishes? **Yes**

January 22, 2015

LA Department of Wildlife and Fisheries Post Office Drawer 98000 Baton Rouge, LA 70898-9000

Attention: Ms. Amity Bass, Coordinator Natural Heritage Program

PAN AMERICAN
ENGINEERS
ALEXANDRIA - INC.
Consulting Professional
Engineers and Land Surveyors

Re:

England Airpark Site W2 Certification PAE Job No. 10224

Dear Ms. Bass:

The England Economic and Industrial Development District (England Authority) is working to obtain Site Certification on a piece of property located in Alexandria, Rapides Parish, Louisiana west of the Alexandria International Airport. The site is being proposed to be developed into an Industrial Park. Please review attached map for project location.

We are seeking consultation with your agency regarding any concerns you may have with regard to Threatened and Endangered Species, Critical Habitat, Vegetation, Fish and Wildlife, and Wild and Scenic Rivers. Should you have concerns on these matters or you feel this project will have an adverse affect on this area, please contact us so that we can discuss mitigation measures and incorporate such into the development of the project plan.

The England Authority also respectfully requests that your agency provide a list of sensitive species and land issues that occur within the project areas, along with a description of the sensitive resources and a location map for those resources that you believe may be affected with future industrial use.

Please review this information and forward your comments to England Economic and Industrial Development District c/o Pan American Engineers, Attention: Kyle Randall, P.O. Box 89, Alexandria, Louisiana 71309. If you have any questions or require additional information, please do not hesitate to contact our office for assistance.

Yours very truly,

PAN AMERICAN ENGINEERS, LLC

Kyle Randall

KR/sjk Enclosure

England Economic and Industrial Development District

Attention: Mr. David Broussard, Airpark Development Manager

February 12, 2015

LA Department of Wildlife and Fisheries Natural Heritage Program Post Office Drawer 98000 Baton Rouge, LA 70898-9000

Attention: Ms. Amity Bass, Coordinator



Consulting Professional Engineers and Land Surveyors

Re:

England Airpark

Site W2 Certification PAE Job No. 10224

Dear Ms. Bass:

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Please review this information and forward your comments to England Economic and Industrial Development District c/o Pan American Engineers, Attention: Kyle Randall, P.O. Box 89, Alexandria, Louisiana 71309. If you have any questions or require additional information, please do not hesitate to contact our office for assistance.

Yours very truly,

PAN AMERICAN ENGINEERS, LLC

Kyle Randall

KR/sjk Enclosure

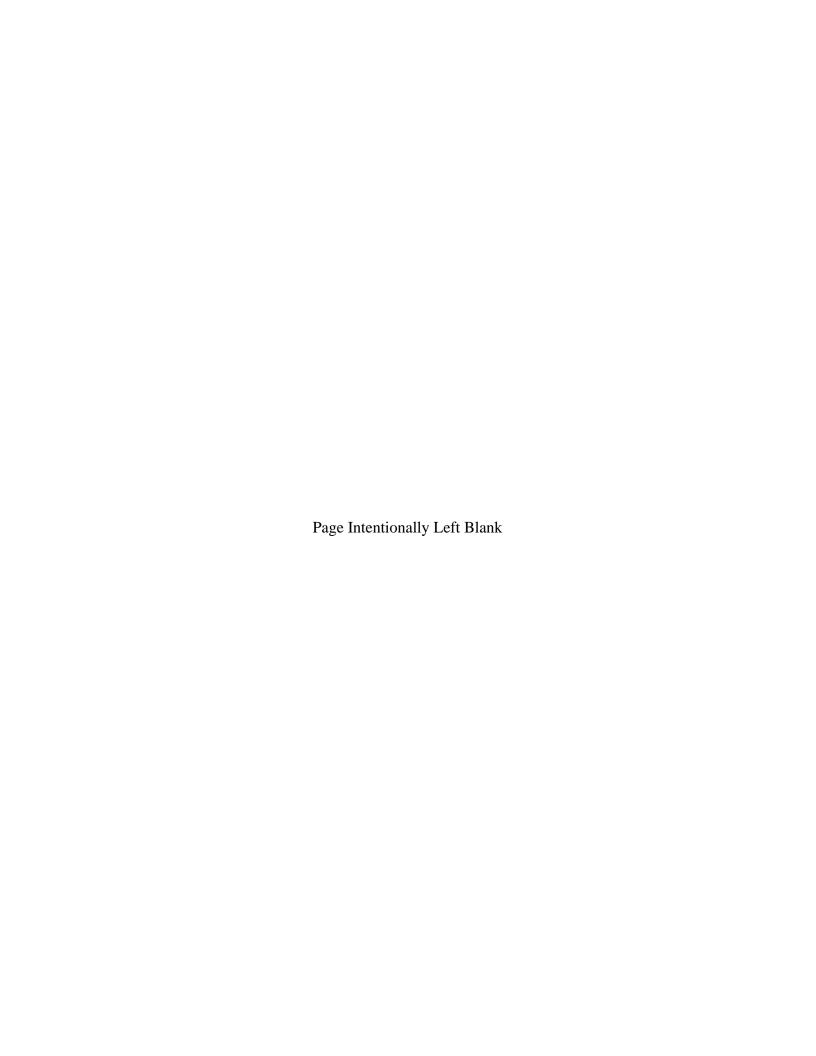
cc.

England Economic and Industrial Development District

Attention: Mr. David Broussard, Airpark Development Manager



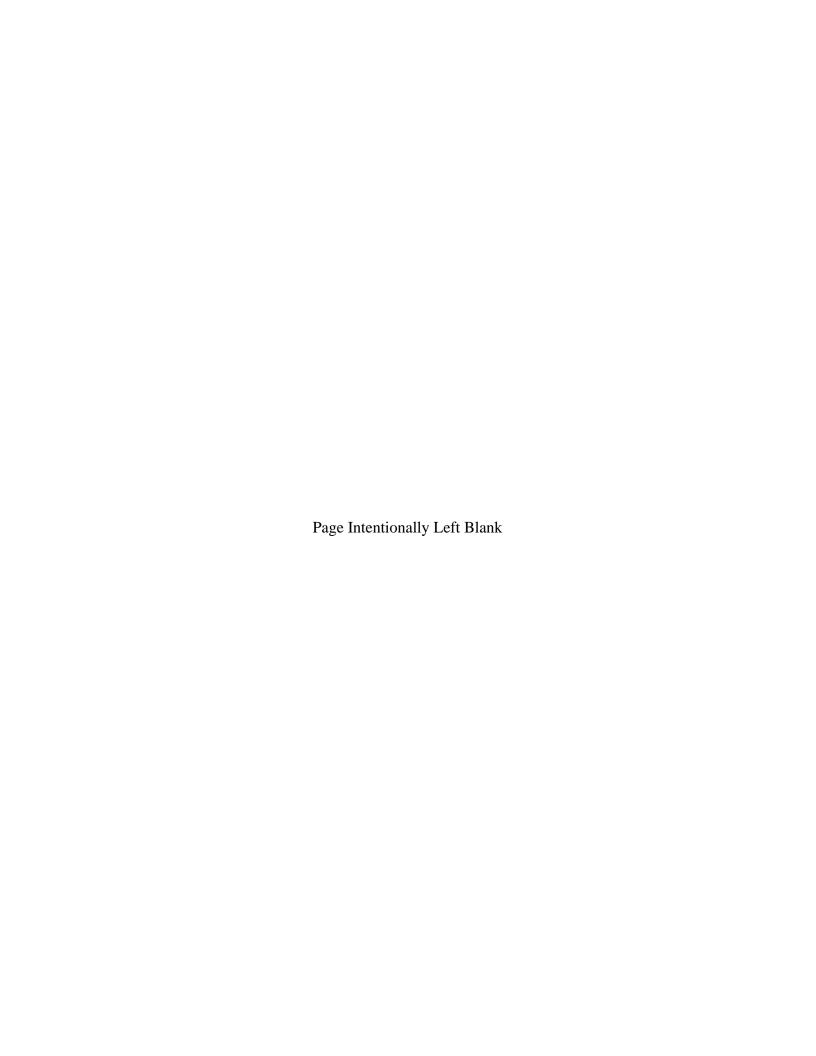
Updated Project Location Map Site W2 Located in Red





Appendix C

Federal and State Agency Responses



January 22, 2015

JAN 27

PAN AMERICAN
ENGINEERS
ALEXANDRIA - INC.
Consulting Professional
Engineers and Land Surveyors

U. S. Fish and Wildlife Services 646 Cajun Dome Blvd., Suite 400 Lafayette, Louisiana 70506

Attention: Biological Science Technician

Re:

England Airpark Site W2 Certification PAE Job No. 10224

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The England Authority also respectfully requests that your agency provide a list of sensitive species and land issues that occur within the project areas, along with a description of the sensitive resources and a location map for those resources that you believe may be affected with future industrial use.

Please review this information and forward your comments to England Economic and Industrial Development District c/o Pan American Engineers, Attention: Kyle Randall, P.O. Box 89, Alexandria, Louisiana 71309. If you have any questions or require additional information, please do not hesitate to contact our office for assistance.

This project has been reviewed for effects to Federal trust resources under our jurisdiction and currently protected by the Endangered

Species Act of 1973 (Act). The project, as proposed,

Will have no effect on those resources

() is not likely to adversely affect those resources.

Yours very truly,

Kyle Randall

PAN AMERICAN ENGINEERS, LLC

is finding fulfills the requirements under Section 7(a)(2) of the Act.

Acting Supervisor Louisl<u>ana Field Office</u>

U.S. iKR/sjk//ildiife Service

Enclosure

cc: England Economic and Industrial Development District

Attention: Mr. David Broussard, Airpark Development Manager

RECEIVED

February 12, 2015

FEB 1 8 2015

FISH & WLDL, SERV LAFAYETTE, LA.



Attention: Biological Science Technician

U. S. Fish and Wildlife Services

Lafayette, Louisiana 70506

646 Cajun Dome Blvd., Suite 400

Re: England Airpark

Site W2 Certification PAE Job No. 10224

Dear Sir or Madam:

A letter was sent to your office dated January 22, 2015 requesting consultation with your agency regarding any concerns with the projects impact on Threatened and Endangered Species, Critical Habitat, Vegetation, Fish and Wildlife, or Wild and Scenic Rivers. Since then, the project boundary has changed. Please find the enclosed updated Project Location Map outlining the correct boundary for Site W2.

Please review this information and forward your comments to England Economic and Industrial Development District c/o Pan American Engineers, Attention: Kyle Randall, P.O. Box 89, Alexandria, Louisiana 71309. If you have any questions or require additional information, please do not hesitate to contact our office for assistance.

Yours very truly,

PAN AMERICAN ENGINEERS, LLC

Kyle Randall

KR/sik Enclosure

England Economic and Industrial Development District cc:

Attention: Mr. David Broussard, Airpark Development Manager

This project has been reviewed for effects to Federal trust resources under our jurisdiction and currently protected by the Endangered Species Act of 1973 (Act). The project, as proposed, (I) Will have no effect on those resources

() is not likely to adversely affect those resources.

This finding fulfills the require ats under Section 7(a)(2) of the Act.

Acting Supervisor Louisiana Field Office

U.S. Fish and Wildlife Service



BOBBY JINDAL GOVERNOR

State of Louisiana DEPARTMENT OF WILDLIFE AND FISHERIES OFFICE OF WILDLIFE

ROBERT J. BARHAM SECRETARY JIMMY L. ANTHONY ASSISTANT SECRETARY

Date

March 6, 2015

Name

Kyle Randall

Company

Pan American Engineers, LLC

Street Address

P.O. Box 89

City, State, Zip

Alexandria, La 71309

Project

England Airpark

Site W2 Certification

PAE Job No. 10224

Project ID

212015

Invoice Number

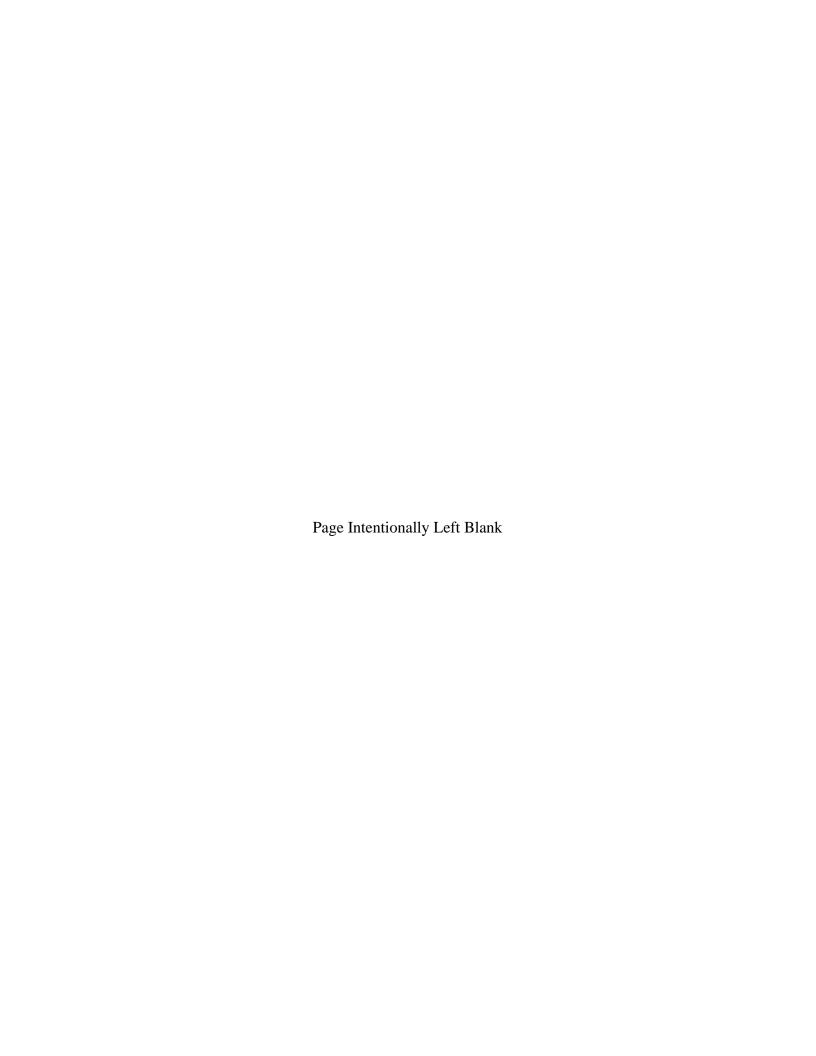
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Personnel of the Coastal & Nongame Resources Division have reviewed the preliminary data for the captioned project. After careful review of our database, no impacts to rare, threatened, or endangered species or critical habitats are anticipated for the proposed project. No state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specified site within Louisiana's boundaries.

The Louisiana Natural Heritage Program (LNHP) has compiled data on rare, endangered, or otherwise significant plant and animal species, plant communities, and other natural features throughout the state of Louisiana. Heritage reports summarize the existing information known at the time of the request regarding the location in question. The quantity and quality of data collected by the LNHP are dependent on the research and observations of many individuals. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Louisiana have not been surveyed. This report does not address the occurrence of wetlands at the site in question. Heritage reports should not be considered final statements on the biological elements or areas being considered, nor should they be substituted for onsite surveys required for environmental assessments. LNHP requires that this office be acknowledged in all reports as the source of all data provided here. If at any time Heritage tracked species are encountered within the project area, please contact the LNHP Data Manager at 225-765-2643. If you have any questions, or need additional information, please call 225-765-2357.

Sincerely,

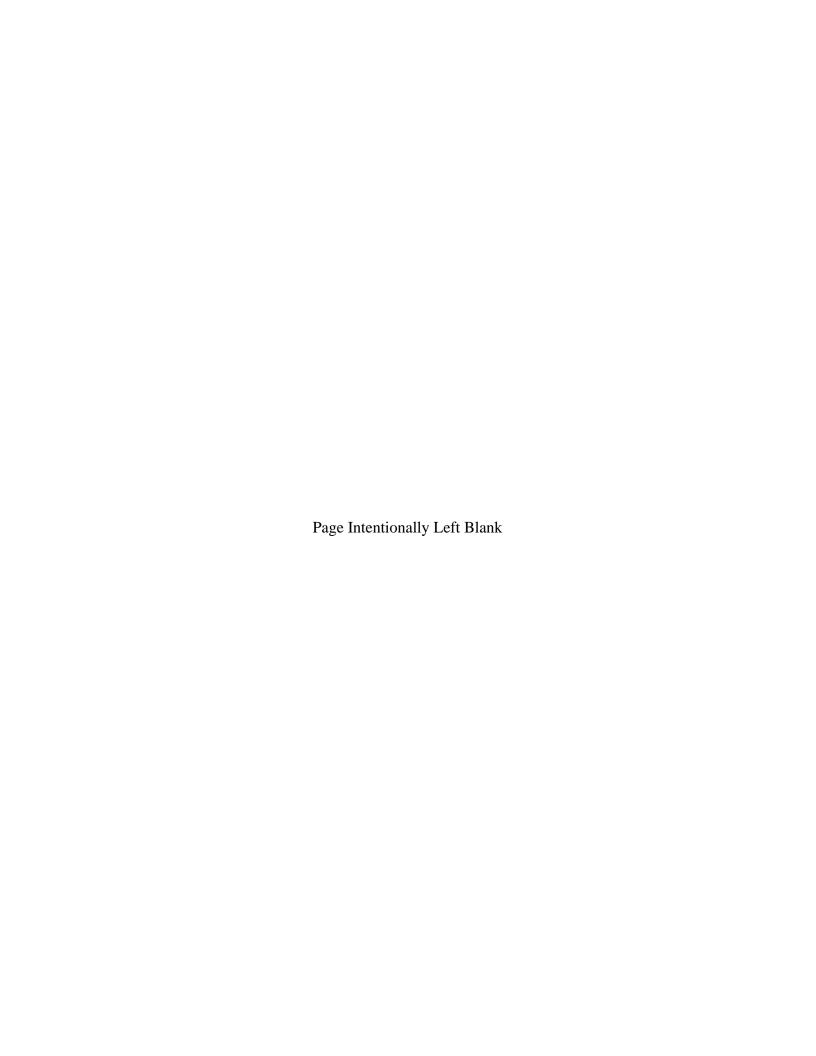
Amity Bass, Coordinator Natural Heritage Program





Appendix D

Rapides Parish Species List



FISHING BOATING HUNTING WILDLIFE ENFORCEMENT WMA

Tweet | 0

Rrintable Version

Louisiana maturai **Heritage Program**

- Louisiana Natural Heritage Program
- Explanation of **Endangered Species** Rankings
- How to Request Data
- ▶ Natural Areas Registry Program
- Natural Communities
- Natural Heritage Program Staff
- ▶ Rare Animal Species
- ▶ Rare Plant Species
- Species by Parish List

Wildlife

- Alligator Program
- Black Bear Program
- Forestry Program
- Land Management Assistance
- ▶ Louisiana Natural Heritage Program
- Nutria Control Program
- Prescribed Fire
- Statewide Environmental Investigations
- Urban and Nuisance Wildlife
- Wildlife Action Plan
- Natural Areas Registry
- Scenic Rivers
- State Wildlife Grant Programs
- Wildlife Rehabilitators

Like < 5 Explanation of Ranking Categories Employed by Natural Heritage Programs Nationwide Federal Ranks (USESA FIELD): **Global Element Ranks:** State Element Ranks: **State Protection Status:** Filter By Parish Filter by Type Apply

<Any>

Species by Parish List

Rapides

Rare Animal Species

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	Fact Sheet	Parishes
Aimophila aestivalis	Bachman's Sparrow	S3	G3			Aimophila aestivalis	Allen, Beauregard, Bienville, Bossier, Calcasieu, Claiborne, Grant, Jackson, Livingston, Natchitoches, Rapides, Sabine, St. Tammany, Tangipahoa, Vernon, Washington
<u>Chaetodipus</u> <u>hispidus</u>	Hispid Pocket Mouse	S2	G5				Beauregard, Natchitoches, Rapides, Sabine, Vernon
Cycleptus elongatus	Blue Sucker	S 3	G3G4				Calcasieu, Concordia, Morehouse, Rapides, Red River, Union, Vernon
Faxonella creaseri	Ouachita Fencing Crawfish	S2	G2			Faxonella creaseri	Caldwell, Jackson, LaSalle, Rapides, Winn
Grus canadensis	Sandhill Crane	S2N	G5			Grus canadensis	Calcasieu, Cameron, Franklin, Madison, Morehouse, Rapides, Vermilion
							Ascension,

Spec	ies by Parish List	Louisiana	a Departii	ieni oi vynume anu	risilenes)	
Haliaeetus leucocephalu s	Bald Eagle	S3	G5	E	Deliste d	Haliaeetus leucocephalus	Assumption, Avoyelles, Beauregard, Bossier, Caddo, Calcasieu, Claiborne, Concordia, DeSoto, East Baton Rouge, East Feliciana, Franklin, Iberia, Iberville, Jackson, Jefferson, Lafourche, LaSalle, Livingston, Morehouse, Natchitoches, Orleans, Ouachita, Plaquemines, Pointe Coupee, Rapides, Richland, Sabine, St. Bernard, St. Charles, St. James, St. John the Baptist, St. Landry, St. Martin, St. Martin, St. Mary, St. Tammany, Tangipahoa, Tensas, Terrebonne, Union, Vermilion, West Baton Rouge, West Feliciana
Helmitheros vermivorus	Worm-eating Warbler	S3B	G5				Catahoula, East Feliciana, Natchitoches, Rapides, Vernon, West Feliciana
<u>Lampsilis</u> <u>satura</u>	Sandbank Pocketbook	S2	G2			Lampsilis satura	Allen, Beauregard, Calcasieu, Rapides, Vernon
<u>Leuctra</u> <u>szczytkoi</u>	Schoolhouse Springs Leuctran Stonefly	S1	G2			Leuctra szczytkoi	Grant, Jackson, Rapides
Macrochelys temminckii	Alligator Snapping Turtle	S3	G3G4	Restricted Harvest		Macrochelys temminckii	Acadia, Allen, Avoyelles, Beauregard, Bienville, Catahoula, Concordia, Grant, Iberia, Lafayette, Madison, Ouachita, Rapides, St. John the

	Speci	ies by Parish List	Louisiana	a Departm	nent of Wildlife and	Fisheries	3	
								Baptist, St. Landry, St. Tammany, Tangipahoa, Tensas, Vermilion, Washington
	argaritifera embeli	Louisiana Pearlshell	S1	G1	E	Т	Margaritifera hembeli	Grant, Rapides
	ustela enata	Long-tailed Weasel	S3	G5			Mustela frenata	Allen, Bossier, East Baton Rouge, East Feliciana, Jackson, Lincoln, Livingston, Ouachita, Rapides, St. James, St. Tammany, Union, Vernon, West Feliciana
	<u>bovaria</u> cksoniana	Southern Hickorynut	S1S2	G2			Obovaria jacksoniana	Allen, Beauregard, East Baton Rouge, East Feliciana, Livingston, Natchitoches, Rapides, Sabine, St. Helena, St. Tammany, Vernon
	rconectes acki	Calcasieu Painted Crawfish	S1	G2			Orconectes blacki	Allen, Beauregard, Calcasieu, Rapides, Vernon
	rconectes athawayi	Teche Painted Crawfish	S3	G3				Allen, Evangeline, Rapides
	rconectes aletae	Kisatchie Painted Crawfish	S 2	G2			Orconectes maletae	Natchitoches, Rapides, Sabine
	andion aliaetus	Osprey	S3	G5			Pandion haliaetus	Grant, Iberville, Lafourche, Natchitoches, Plaquemines, Rapides, St. John the Baptist, St. Martin, St. Tammany, Winn
<u>Pi</u>	<u>coides</u>	Red-cockaded	S2	G3	Е	Е	№ Picoides	Allen, Beauregard, Bienville, Bossier, Caddo, Calcasieu, Caldwell, Catahoula, DeSoto, Evangeline, Grant, Jackson, LaSalle, Lincoln,

Speci	ies by Parish List	Louisiana	a Departm	ent of Wildlife and	Fisheries	i	
<u>borealis</u>	Woodpecker					borealis	Livingston, Morehouse, Natchitoches, Ouachita, Rapides, Sabine, St. Tammany, Tangipahoa, Union, Vernon, Webster, Winn
<u>Pituophis</u> <u>ruthveni</u>	Louisiana Pine Snake	S2	G2Q		С	Pituophis ruthveni	Beauregard, Bienville, Grant, LaSalle, Natchitoches, Rapides, Sabine, Vernon
<u>Plethodon</u> <u>kisatchie</u>	Louisiana Slimy Salamander	S1	G3G4Q				Catahoula, Grant, Jackson, LaSalle, Natchitoches, Ouachita, Rapides, Winn
<u>Plethodon</u> <u>serratus</u>	SOUTHERN RED-BACKED SALAMANDER	S1	G5	Prohibited		Plethodon serratus	Catahoula, DeSoto, Natchitoches, Rapides
<u>Pleurobema</u> <u>riddellii</u>	Louisiana Pigtoe	S1S2	G1G2			Pleurobema riddellii	Allen, Natchitoches, Rapides, Red River, Vernon
Polyodon spathula	Paddlefish	S4	G4			Polyodon spathula	Acadia, Avoyelles, Caddo, Calcasieu, Cameron, Catahoula, Concordia, Evangeline, Franklin, Iberia, Jefferson Davis, LaSalle, Orleans, Ouachita, Rapides, Sabine, St. Bernard, St. Charles, St. John the Baptist, St. Martin, St. Mary, St. Tammany, Tangipahoa, Tensas, Union
<u>Procambarus</u> <u>jaculus</u>	Javelin Crawfish	S1	G4				Avoyelles, Rapides
Pteronotropis hubbsi	Bluehead Shiner	S2	G3				Avoyelles, LaSalle, Morehouse, Ouachita, Rapides, Union
							Avoyelles, Bossier, Caddo, Cameron,

Sternula antillarum athalassos	Interior Least Tern	S4BT1	G4T2Q	E	E		Concordia, East Baton Rouge, East Carroll, East Feliciana, Grant, Iberville, Madison, Natchitoches, Pointe Coupee, Rapides, Red River, Tensas, West Baton Rouge, West Feliciana, Winn
Strophitus subvexus	Southern Creekmussel	S1	G3			Strophitus subvexus	Ascension, Beauregard, Calcasieu, Livingston, Rapides, Vernon, Winn
Strophitus undulatus	Squawfoot	S2	G5				Claiborne, Lincoln, Madison, Rapides, Union

Rare Plant Species

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Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	Fact Sheet	Parishes
Amsonia ludoviciana	Louisiana Blue Star	S3	G3				Allen, Bienville, Calcasieu, Grant, Natchitoches, Ouachita, Rapides, Red River, Sabine, Vernon, Winn
Burmannia biflora	Northern Burmannia	S3	G4G5				Bienville, Caddo, Catahoula, DeSoto, Grant, LaSalle, Ouachita, Rapides, St. Tammany, Vernon, Webster, Winn
<u>Camassia</u> <u>scilloides</u>	Atlantic Camas	S 3	G4G5				Bossier, Caddo, Morehouse, Natchitoches, Rapides, Webster, Winn
Carex meadii	Mead's Sedge	S3	G4G5				Acadia, Allen, Bossier, Caddo, Calcasieu, DeSoto, Grant, Jefferson Davis, Morehouse, Natchitoches, Rapides, Winn
<u>Carex</u> <u>microdonta</u>	Little Tooth Sedge	S3	G4				Acadia, Calcasieu, Grant, Iberia, LaSalle, Natchitoches, Rapides,

							Vernon, Winn
Cypripedium kentuckiense	Southern Lady's-slipper	S1	G3			Cypripedium kentuckiense	Bienville, Bossier, Caldwell, Catahoula, DeSoto, Evangeline, Franklin, Grant, Jackson, LaSalle, Lincoln, Natchitoches, Ouachita, Rapides, Red River, Sabine, Union, Vernon, Winn
Dichantheliu m strigosum var. glabrescens	Roughhair Witchgrass	S1	G5T4T 5				Beauregard, Grant, LaSalle, Rapides, St. Tammany, Washington
<u>Dryopteris</u> <u>ludoviciana</u>	Southern Shield Wood- fern	S2	G4			<u>Dryopteris</u> <u>Iudoviciana</u>	Bienville, East Baton Rouge, East Feliciana, Grant, Iberia, Rapides, St. Mary, Tangipahoa, West Feliciana
Dulichium arundinaceu m	Three-way Sedge	S2	G5				Bienville, Caddo, Rapides, St. Tammany, Washington
Euphorbia discoidalis	Summer Spurge	S1	GNR				Rapides
Fuirena simplex var. aristulata	Western Umbrella Sedge	S1	G5T4				East Carroll, Natchitoches, Rapides, St. Charles, St. Landry, St. Tammany
Hexalectris spicata	Crested Coral- root	S2	G5				Caldwell, Claiborne, Evangeline, Lincoln, Natchitoches, Ouachita, Rapides, Vernon, Webster, West Feliciana
Lobelia flaccidifolia	Coastal Plain Lobelia	S2?	G5				Allen, Avoyelles, Beauregard, Calcasieu, Grant, Jefferson Davis, LaSalle, Rapides, Vernon
Mayaca fluviatilis	Bog Moss	S2	G5				Evangeline, Rapides, St. Tammany, Washington
							Concordia,

Spec	Species by Parish List Louisiana Department of Wildlife and Fisheries										
Melanthera nivea	Snow Melanthera	S2	G5			Melanthera nivea	Iberia, Iberville, Rapides, St. Helena, Tensas				
Oenothera pilosella ssp. sessilis	Meadow Evening Primrose	S1?	G5T2Q				Bossier, Claiborne, Jefferson Davis, Morehouse, Rapides, Tensas				
Orobanche uniflora	Broomrape	S1	G5				Rapides, Vernon				
Quercus rubra	Red Oak	S1S3	G5				Caddo, Caldwell, DeSoto, Morehouse, Rapides, St. Tammany, Union, Washington, West Carroll				
Rhynchospor a miliacea	Millet Beakrush	S2	G5			Rhynchospora miliacea	Allen, Calcasieu, Lafourche, Livingston, Rapides, St. Mary, St. Tammany, Terrebonne, Vernon, Winn				
Schisandra glabra	Scarlet Woodbine	S 3	G3			Schisandra glabra	Caldwell, Catahoula, East Feliciana, Evangeline, Iberia, Jackson, Lincoln, Natchitoches, Rapides, St. Helena, St. Mary, West Feliciana				
Schoenoplect us etuberculatus	Bulrush	S1	G3G4			Schoenoplectus etuberculatus	Rapides, Sabine, St. Tammany, Washington				
Triphora trianthophora	Nodding Pogonia	S2	G3G4			Triphora trianthophora	Caddo, Iberville, Natchitoches, Rapides, West Feliciana				

Natural Communities

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	Fact Sheet	Parishes
Bayhead Swamp		S3	G3?			Bayhead Swamp	Beauregard, Jackson, Rapides, St. Tammany, Vernon, Washington, Winn
							Ascension, Avoyelles, Bossier, Caddo, Calcasieu, Caldwell,

Эресі	es by Failsh List	Louisiana	Departit	ieni oi vviidine and	1 131161163		
Bottomland Hardwood Forest		S4	G4G5			Bottomland Hardwood Forest	Catahoula, Concordia, East Baton Rouge, East Carroll, Franklin, Grant, Iberville, Lincoln, Livingston, Madison, Morehouse, Natchitoches, Plaquemines, Rapides, Richland, Sabine, St. Tammany, Tensas, Union, Vernon, West Carroll, Winn
Cypress Swamp		S4	G4G5			Cypress Swamp	Ascension, Bienville, Bossier, Catahoula, Evangeline, Iberia, Iberville, LaSalle, Rapides, Richland, St. Mary, Tangipahoa
Cypress- Tupelo Swamp		S4	G3G5				Ascension, Assumption, Bossier, East Baton Rouge, Franklin, Iberia, Iberville, Livingston, Natchitoches, Pointe Coupee, Rapides, St. Charles, St. James, St. John the Baptist, St. Landry, St. Martin, St. Mary, St. Tammany, Terrebonne, West Feliciana, Winn
Fleming Calcareous Prairie		S1	G1			Calcareous Prairie	Natchitoches, Rapides, Vernon
<u>Fleming</u> <u>Glade</u>		S1	G1			Fleming Glade	Rapides
Hardwood Slope Forest		S3	G2G3			Hardwood Slope Forest	Bienville, Bossier, Caddo, Caldwell, Catahoula, East Feliciana, Evangeline, Grant, Jackson, LaSalle, Natchitoches, Ouachita, Rapides, St. Helena, St.

					Mary, St. Tammany, Tangipahoa, Union, Washington, West Carroll
Mixed Hardwood- Loblolly Pine Forest	S3	G3G4		Mixed Hardwood- Loblolly Pine Forest	Bossier, Caddo, Caldwell, Catahoula, Claiborne, East Feliciana, Evangeline, Grant, Jackson, LaSalle, Natchitoches, Ouachita, Rapides, Richland, Tangipahoa, Vernon, Washington, Webster, West Carroll, Winn
<u>Pine</u> <u>Flatwoods</u>	S3	G2G3		Pine Flatwoods	Grant, Rapides, St. Tammany, Vernon
Scrub/Shrub Swamp	S4S5	G3?		Scrub/Shrub Swamp	Avoyelles, LaSalle, Rapides, Terrebonne
Shortleaf Pine/Oak- Hickory Forest	S1	G2G3		Shortleaf Pine/Oak- Hickory Forest	Bienville, Caddo, DeSoto, Grant, Lincoln, Natchitoches, Rapides, Tangipahoa, Washington, Webster, Winn
Small Stream Forest	S2	G3		Small Stream Forest	Bossier, Caddo, Claiborne, DeSoto, East Feliciana, Franklin, Grant, LaSalle, Natchitoches, Rapides, Sabine, St. Helena, St. Tammany, Tangipahoa, Vernon, Washington, Webster, West Feliciana, Winn
Western Acidic Longleaf Pine Savannah	S2	G2G3		Western Acidic Longleaf Pine Savannah	Allen, Beauregard, Calcasieu, Jefferson Davis, Natchitoches, Rapides
Western Hillside Seepage Bog	S1	G2G3		Western Hillside Seepage Bog	Beauregard, Grant, Natchitoches, Rapides, Vernon, Winn

Western Upland Longleaf Pine Forest	S3	G2G3		Western Upland Longleaf Pine Forest	Allen, Beauregard, Bienville, Grant, Natchitoches, Rapides, Sabine, Vernon, Winn
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