The latest revision date of Appendix N to the Empire Offshore Wind COP is May 2022. This appendix was not revised as part of the November 2023 submittal; therefore, the date on the Appendix N cover sheet remains as May 2022.

Empire Offshore Wind: Empire Wind Project (EW 1 and EW 2) Construction and Operations Plan



Information for Planning and Conservation (IPaC) Report and New York State Department of Environmental Conservation Natural Heritage Response Letters

> Prepared for EQUINOT



MAY 2022

#### N.1 INTRODUCTION

This Appendix to the Construction and Operations Plan presents correspondence conducted by Tetra Tech, Inc. on Empire Offshore Wind LLC's behalf with the U.S. Fish and Wildlife Service and the New York State Department of Environmental Conservation regarding threatened, endangered, proposed and candidate species, as well proposed or designated critical habitat that may occur within the Study Area and/or may be affected by the Project. A record of the correspondence is included as attachments:

- Attachment N-1, Information for Planning and Conservation (IPaC) Report; and
- Attachment N-2, New York State Department of Environmental Conservation Natural Heritage Response Letter.

### ATTACHMENT N-1 INFORMATION FOR PLANNING AND CONSERVATION (IPAC) REPORT



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2019-SLI-0134 Event Code: 05E1LI00-2019-E-00294 Project Name: Gowanus November 30, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/corre

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

Consultation Code:	05E1LI00-2019-SLI-0134
Event Code:	05E1LI00-2019-E-00294
Project Name:	Gowanus
Project Type:	POWER GENERATION
Project Description:	The Project is a proposed offshore wind energy facility with the potential to produce 1000 to 1500 megawatts of electricity located an average of 20 miles south of Long Island, east of the Rockaways. Multiple potential routes for underwater transmission lines, landfall locations, and upland transmission to the respective substations are currently under review. This inquiry for potential listed species in the vicinity of the Project is associated with one of the alternative upland routes to reach the respective substation.

### Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.63571257872576N74.03767804386644W</u>



Counties: Kings, NY

## **Endangered Species Act Species**

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Birds

NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is final critical habitat for this species. Your location is outside the critical habitat.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern <i>Sterna dougallii dougallii</i> Population: northeast U.S. nesting pop. No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered
Flowering Plants	
NAME	STATUS

Seabeach Amaranth *Amaranthus pumilus* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8549</u> Threatened

### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2019-SLI-0135 Event Code: 05E1LI00-2019-E-00296 Project Name: Gowanus Alternatives November 30, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

Consultation Code:	05E1LI00-2019-SLI-0135
Event Code:	05E1LI00-2019-E-00296
Project Name:	Gowanus_Alternatives
Project Type:	POWER GENERATION
Project Description:	The Project is a proposed offshore wind energy facility with the potential to produce 1000 to 1500 megawatts of electricity located an average of 20 miles south of Long Island, east of the Rockaways. Multiple potential routes for underwater transmission lines, landfall locations, and upland transmission to the respective substations are currently under review. This inquiry for potential listed species in the vicinity of the Project is associated with one of the alternative upland routes to reach the respective substation.

### Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.63571258943773N74.03835275800822W</u>



Counties: Kings, NY

## **Endangered Species Act Species**

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Birds

NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is final critical habitat for this species. Your location is outside the critical habitat.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern <i>Sterna dougallii dougallii</i> Population: northeast U.S. nesting pop. No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered
Flowering Plants	
NAME	STATUS

Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8549</u> Threatened

### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2020-SLI-0070 Event Code: 05E1LI00-2020-E-00154 Project Name: Empire Wind\_Gowanus October 31, 2019

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

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A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

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#### http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/correntBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

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This species list is provided by:

### Long Island Ecological Services Field Office

340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

Consultation Code:	05E1LI00-2020-SLI-0070
Event Code:	05E1LI00-2020-E-00154
Project Name:	Empire Wind_Gowanus
Project Type:	POWER GENERATION
Project Description:	A proposed offshore wind energy project associated with the Bureau of Ocean Energy Management's (BOEM's) Lease Area OCS-A-0512 (the Project). The Project is planned for an area of approximately 80,000 acres in federal waters, located an average of 20 miles south of Long Island, east of the Rockaways (Figure 1). The Project could have the capacity to produce up to approximately 2,100 megawatts (MW) of electricity, enough to power one million homes. Equinor is currently developing the federal and state permit applications that will support construction, operation, and decommissioning of the proposed offshore wind farm(s) on the lease site where development occurs. The energy produced by the offshore facilities could be transmitted to as many as three substations, with the Gowanus Generating Station, Brooklyn, Kings County, New York, currently under consideration.

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <u>https://</u> www.google.com/maps/place/40.65516680764696N74.01422345000037W



Counties: Kings, NY

### **Endangered Species Act Species**

Species profile: https://ecos.fws.gov/ecp/species/8549

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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### Birds

NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is final critical habitat for this species. Your location is outside the critical habitat.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern Sterna dougallii dougallii Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered
Flowering Plants	
NAME	STATUS
Seabeach Amaranth <i>Amaranthus pumilus</i> No critical habitat has been designated for this species.	Threatened

## **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2020-SLI-0069 Event Code: 05E1LI00-2020-E-00152 Project Name: Empire Wind\_Barrett October 31, 2019

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

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A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

#### http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

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We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

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Official Species List

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This species list is provided by:

### Long Island Ecological Services Field Office

340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

Consultation Code:	05E1LI00-2020-SLI-0069
Event Code:	05E1LI00-2020-E-00152
Project Name:	Empire Wind_Barrett
Project Type:	POWER GENERATION
Project Description:	The Project is a proposed offshore wind energy facility with the potential to produce 1000 to 1500 megawatts of electricity located an average of 20 miles south of Long Island, east of the Rockaways. Multiple potential routes for underwater transmission lines, landfall locations, and upland transmission to the respective substations are currently under review. This inquiry for potential listed species in the vicinity of the Project is associated with one of the alternative upland routes to reach the respective substation.

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.59363864662903N73.65806433950675W</u>



Counties: Nassau, NY

### **Endangered Species Act Species**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

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1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u>	Threatened
Birds	
NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is final critical habitat for this species. Your location is outside the critical habitat.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern Sterna dougallii dougallii Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered

### **Flowering Plants**

NAME	STATUS
Sandplain Gerardia <i>Agalinis acuta</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8128</u>	Endangered
Seabeach Amaranth <i>Amaranthus pumilus</i> No critical habitat has been designated for this species.	Threatened

### **Critical habitats**

Species profile: <u>https://ecos.fws.gov/ecp/species/8549</u>

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2020-SLI-0739 Event Code: 05E1LI00-2020-E-01720 Project Name: Empire Wind - EW2 September 11, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

#### http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/correntBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

#### Long Island Ecological Services Field Office

340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

Consultation Code:	05E1LI00-2020-SLI-0739
Event Code:	05E1LI00-2020-E-01720
Project Name:	Empire Wind - EW2
Project Type:	POWER GENERATION
Project Description:	Equinor Wind US LLC (Equinor Wind) proposes to construct and operate the Project located in the designated Renewable Energy Lease Area OCS- A 0512 (Lease Area). The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located approximately 14 statute miles (mi) (22 kilometers [km]) south of Long Island, New York and 19.5 mi (31.4 km) east of Long Branch, New Jersey. Equinor Wind proposes to develop the entire Lease Area in what could be from one to up to a maximum of three individual phases, known as Empire Wind 1 (EW 1), Boardwalk Wind 1 (BW 1), and EW 2. The individual phases within the Lease Area will be electrically isolated and independent from each other. Each phase of development will, independently of one another, connect via offshore substations to Points of Interconnection (POIs) at onshore locations by way of export cable routes and onshore substations.

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.40716411076186N73.37210629320042W</u>



Counties: Nassau, NY

### **Endangered Species Act Species**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u>	Threatened
Birds	
NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is final critical habitat for this species. Your location is outside the critical habitat.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern Sterna dougallii dougallii Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered

### **Flowering Plants**

NAME	STATUS
Sandplain Gerardia Agalinis acuta No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8128</u>	Endangered
Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species.	Threatened

### **Critical habitats**

Species profile: https://ecos.fws.gov/ecp/species/8549

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2020-SLI-0740 Event Code: 05E1LI00-2020-E-01723 Project Name: Empire Wind - EW1 September 14, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

#### http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/correntBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List
### **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### Long Island Ecological Services Field Office

340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

#### New Jersey Ecological Services Field Office

4 E. Jimmie Leeds Road, Suite 4 Galloway, NJ 08205 (609) 646-9310

### **Project Summary**

Consultation Code:	05E1LI00-2020-SLI-0740
Event Code:	05E1LI00-2020-E-01723
Project Name:	Empire Wind - EW1
Project Type:	POWER GENERATION
Project Description:	Equinor Wind US LLC (Equinor Wind) proposes to construct and operate the Project located in the designated Renewable Energy Lease Area OCS- A 0512 (Lease Area). The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located approximately 14 statute miles (mi) (22 kilometers [km]) south of Long Island, New York and 19.5 mi (31.4 km) east of Long Branch, New Jersey. Equinor Wind proposes to develop the entire Lease Area in what could be from one to up to a maximum of three individual phases, known as Empire Wind 1 (EW 1), Boardwalk Wind 1 (BW 1), and EW 2. The individual phases within the Lease Area will be electrically isolated and independent from each other. Each phase of development will, independently of one another, connect via offshore substations to Points of Interconnection (POIs) at onshore locations by way of export cable routes and onshore substations.

### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.6609370593265N74.00562158360711W</u>

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Platerson Plansippian	Y Yonke	REW YORK Hicksville Brentwood	
Elizabeth	New York	Levittown West Babylon	
	55π_ Long Bran	di and a second	

Counties: Monmouth, NJ | Kings, NY | Queens, NY

### **Endangered Species Act Species**

Species profile: https://ecos.fws.gov/ecp/species/8549

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### **Birds**

NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus         Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except         those areas where listed as endangered.         There is final critical habitat for this species. Your location is outside the critical habitat.         Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u> </li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern <i>Sterna dougallii dougallii</i> Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered
Flowering Plants	
NAME	STATUS
Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species.	Threatened

### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



## United States Department of the Interior

FISH AND WILDLIFE SERVICE New Jersey Ecological Services Field Office 4 E. Jimmie Leeds Road, Suite 4 Galloway, NJ 08205 Phone: (609) 646-9310 Fax: (609) 646-0352 http://www.fws.gov/northeast/njfieldoffice/Endangered/consultation.html



In Reply Refer To: Consultation Code: 05E2NJ00-2020-SLI-1591 Event Code: 05E2NJ00-2020-E-03436 Project Name: Empire Wind - EW1 September 14, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species that may occur in your proposed action area and/or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under Section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*)

If the enclosed list indicates that any listed species may be present in your action area, please visit the New Jersey Field Office consultation web page as the next step in evaluating potential project impacts: <u>http://www.fws.gov/northeast/njfieldoffice/Endangered/consultation.html</u>

On the New Jersey Field Office consultation web page you will find:

- habitat descriptions, survey protocols, and recommended best management practices for listed species;
- recommended procedures for submitting information to this office; and
- links to other Federal and State agencies, the Section 7 Consultation Handbook, the Service's wind energy guidelines, communication tower recommendations, the National Bald Eagle Management Guidelines, and other resources and recommendations for protecting wildlife resources.

The enclosed list may change as new information about listed species becomes available. As per Federal regulations at 50 CFR 402.12(e), the enclosed list is only valid for 90 days. Please return to the ECOS-IPaC website at regular intervals during project planning and implementation to obtain an updated species list. When using ECOS-IPaC, be careful about drawing the boundary of your Project Location. Remember that your action area under the ESA is not limited to just the footprint of the project. The action area also includes all areas that may be indirectly affected

through impacts such as noise, visual disturbance, erosion, sedimentation, hydrologic change, chemical exposure, reduced availability or access to food resources, barriers to movement, increased human intrusions or access, and all areas affected by reasonably forseeable future that would not occur without ("but for") the project that is currently being proposed.

We appreciate your concern for threatened and endangered species. The Service encourages Federal and non-Federal project proponents to consider listed, proposed, and candidate species early in the planning process. Feel free to contact this office if you would like more information or assistance evaluating potential project impacts to federally listed species or other wildlife resources. Please include the Consultation Tracking Number in the header of this letter with any correspondence about your project.

### Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

### **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### New Jersey Ecological Services Field Office

4 E. Jimmie Leeds Road, Suite 4 Galloway, NJ 08205 (609) 646-9310

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

#### Long Island Ecological Services Field Office

340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

### **Project Summary**

Consultation Code:	05E2NJ00-2020-SLI-1591
Event Code:	05E2NJ00-2020-E-03436
Project Name:	Empire Wind - EW1
Project Type:	POWER GENERATION
Project Description:	Equinor Wind US LLC (Equinor Wind) proposes to construct and operate the Project located in the designated Renewable Energy Lease Area OCS- A 0512 (Lease Area). The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located approximately 14 statute miles (mi) (22 kilometers [km]) south of Long Island, New York and 19.5 mi (31.4 km) east of Long Branch, New Jersey. Equinor Wind proposes to develop the entire Lease Area in what could be from one to up to a maximum of three individual phases, known as Empire Wind 1 (EW 1), Boardwalk Wind 1 (BW 1), and EW 2. The individual phases within the Lease Area will be electrically isolated and independent from each other. Each phase of development will, independently of one another, connect via offshore substations to Points of Interconnection (POIs) at onshore locations by way of export cable routes and onshore substations.

### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.6609370593265N74.00562158360711W</u>

RBEY	Greenwich	raim Sou
T S	White Elans Stamford	
Platerson Plansipplan	Yonkers NEW YORK Hicksville Brentwo	
Elizabeth Edison	New York Levitown West Babyl Söff, Long Branch	on
RSEY TO	ms River	

Counties: Monmouth, NJ | Kings, NY | Queens, NY

### **Endangered Species Act Species**

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Birds

NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is final critical habitat for this species. Your location is outside the critical habitat.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u> Flowering Plants	Threatened
NAME	STATUS
Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8549</u>	Threatened

### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

## USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

## **Migratory Birds**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the <u>USFWS</u> <u>Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data</u> <u>mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Arctic Tern <i>Sterna paradisaea</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds May 20 to Aug 15
Black Scoter <i>Melanitta nigra</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

NAME	BREEDING SEASON
Bonaparte's Gull <i>Chroicocephalus philadelphia</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Brown Pelican <i>Pelecanus occidentalis</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/6034</u>	Breeds Jan 15 to Sep 30
Common Eider Somateria mollissima This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jun 1 to Sep 30
Common Loon <i>gavia immer</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/4464</u>	Breeds Apr 15 to Oct 31
Common Tern Sterna hirundo This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/4963</u>	Breeds May 10 to Sep 10
Double-crested Cormorant <i>phalacrocorax auritus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/3478</u>	Breeds Apr 20 to Aug 31
Great Black-backed Gull <i>Larus marinus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 20
Herring Gull Larus argentatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 20 to Aug 31
Least Tern <i>Sterna antillarum</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 20 to Sep 10

NAME	BREEDING SEASON
Long-tailed Duck <i>Clangula hyemalis</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/7238</u>	Breeds elsewhere
Manx Shearwater <i>Puffinus puffinus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Oct 31
Northern Gannet <i>Morus bassanus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Parasitic Jaeger Stercorarius parasiticus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Razorbill <i>Alca torda</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jun 15 to Sep 10
Red-breasted Merganser <i>Mergus serrator</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Red-throated Loon <i>Gavia stellata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Ring-billed Gull <i>Larus delawarensis</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Roseate Tern <i>Sterna dougallii</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds May 10 to Aug 31

NAME	BREEDING SEASON
Royal Tern <i>Thalasseus maximus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 31
Surf Scoter <i>Melanitta perspicillata</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
White-winged Scoter <i>Melanitta fusca</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Wilson's Storm-petrel Oceanites oceanicus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

### **Probability Of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### **Probability of Presence** (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum

probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

### No Data (-)

A week is marked as having no data if there were no survey events for that week.

### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Common Tern Non-BCC Vulnerable	++++	++++	++++	++++		• 1 I I				+ + + + + + + + + + + + + + + + + + + +	++++	++++
Double-crested Cormorant Non-BCC Vulnerable		++++	111	111		111	111	111				(+)]
Great Black-backed Gull Non-BCC Vulnerable	(11)		111	111		• I I I	111)	111		1111		$(\cdot, \cdot)$
Herring Gull Non-BCC Vulnerable		[1][1]				111	111					$1 \neq 1 \downarrow$
Least Tern Non-BCC Vulnerable	++++	++++	++++	++ <mark>+</mark> 1	111)	• 1 1 1	111	111	<b> </b>   ++	++++	++++	++++
Long-tailed Duck Non-BCC Vulnerable		[1][1]	(   )		+	+++ <mark> </mark>	++++	++++	++++	++++		1 + 1
Manx Shearwater Non-BCC Vulnerable	++++	++++	++-+	+ • • •	• • • • •	+ <mark> </mark> ++	• • • •	1		• • • •	-+++	· + <b>-</b> ++
Northern Gannet Non-BCC Vulnerable		+	+		<b>II</b> ++	•+++	++ +	++++	+++	+++		1 + 1
Parasitic Jaeger Non-BCC Vulnerable	+++++	++++		+	+ 1 + +	+	+++-	+	-+-++-		-+++	· + <b>-</b> ++
Razorbill Non-BCC Vulnerable	1+1	1++	++++	++++	++++	++++	1111	++++	<del>╎</del> ╎┼┼	++++	++++	+++ +
Red-breasted Merganser Non-BCC Vulnerable	(	$\left[ \left( 1 \right) \right]$		+	++++	++++	++++	++++	++++	1++1	+111	1+1
Red-throated Loon BCC Rangewide (CON)		+		+	++++	++++	++++	++++	++++	+++		1 + 1
Ring-billed Gull Non-BCC Vulnerable	(11)		111	111		111	111			111		$(\cdot, \cdot)$
Roseate Tern Non-BCC Vulnerable	++++	++++	++++	++++	+	+	++++	++++	₩+++	++++	++++	++++
Royal Tern Non-BCC Vulnerable	++++	++++	++++	++++	++++	•+1+	+ <mark>Ⅰ</mark> ++	111		1+11		++++
Surf Scoter Non-BCC Vulnerable	(]])	+		11++	++++	++++	++++	1+++	++++	+++		1 + 1
White-winged Scoter Non-BCC Vulnerable	1     +	<b> </b> + <b> </b> +	<b>II</b> ++	+ <b>  </b> ++	++++	++++	++++	++++	++++	+++		1+1+
Wilson's Storm- petrel Non-BCC Vulnerable	++++	++++	++++	++++	++++	++ +	+	111+	++++	++++	++++	++++

### Additional information can be found using the following links:

Birds of Conservation Concern <a href="http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php">http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php</a>

- Measures for avoiding and minimizing impacts to birds <u>http://www.fws.gov/birds/</u> management/project-assessment-tools-and-guidance/ <u>conservation-measures.php</u>
- Nationwide conservation measures for birds <u>http://www.fws.gov/migratorybirds/pdf/</u> management/nationwidestandardconservationmeasures.pdf

### **Migratory Birds FAQ**

## Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

## What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian</u> <u>Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and

how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

## How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: <u>The Cornell Lab</u> <u>of Ornithology All About Birds Bird Guide</u>, or (if you are unsuccessful in locating the bird of interest there), the <u>Cornell Lab of Ornithology Neotropical Birds guide</u>. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical</u> <u>Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic</u> <u>Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

ESTUARINE AND MARINE DEEPWATER

• <u>M1UBL</u>

# **IPaC** resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional sitespecific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section. CONSUL

## Project information

### NAME

Empire Wind - EW1

### LOCATION

### New Jersey and New York



### DESCRIPTION

Equinor Wind US LLC (Equinor Wind) proposes to construct and operate the Project located in the designated Renewable Energy Lease Area OCS-A 0512 (Lease Area). The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located approximately 14 statute miles (mi) (22 kilometers [km]) south of Long Island, New York and 19.5 mi (31.4 km) east of Long Branch, New Jersey. Equinor Wind proposes to develop the entire Lease Area in what could be from one to up to a maximum of three individual phases, known as Empire Wind 1 (EW 1), Boardwalk Wind 1 (BW 1), and EW 2. The individual phases within the Lease Area will be electrically isolated and independent from each other. Each phase of development will, independently of one another,

connect via offshore substations to Points of Interconnection (POIs) at onshore locations by way of export cable routes and onshore substations.

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## Local offices

Long Island Ecological Services Field Office

└ (631) 286-0485iiii (631) 286-4003

340 Smith Road Shirley, NY 11967-2258

New Jersey Ecological Services Field Office

**└** (609) 646-9310**i** (609) 646-0352

4 E. Jimmie Leeds Road, Suite 4 Galloway, NJ 08205

http://www.fws.gov/northeast/njfieldoffice/Endangered/consultation.html

TEORCON

# Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and projectspecific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Log in to IPaC.
- 2. Go to your My Projects list.
- 3. Click PROJECT HOME for this project.
- 4. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:



NAME

Piping Plover Charadrius melodus There is final critical habitat for this species. Your location is outside the critical habitat. <u>https://ecos.fws.gov/ecp/species/6039</u>

Red Knot Calidris canutus rufa No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/1864</u>

Roseate Tern Sterna dougallii dougallii No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/2083</u>

## **Flowering Plants**

NAME

Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8549

## **Critical habitats**

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

Threatened

Threatened

Endangered

**STATUS** 

Threatened

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty  $Act^{1}$  and the Bald and Golden Eagle Protection  $Act^{2}$ .

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

• Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> <u>birds-of-conservation-concern.php</u>

- Measures for avoiding and minimizing impacts to birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>conservation-measures.php</u>
- Nationwide conservation measures for birds <u>http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</u>

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of</u> <u>Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

TEORCON NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Breeds Apr 15 to Aug 31

American Oystercatcher Haematopus palliatus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8935</u>

### Arctic Tern Sterna paradisaea

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. Breeds May 20 to Aug 15

Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/1626</u>	Breeds Oct 15 to Aug 31
Black Scoter Melanitta nigra This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Black Skimmer Rynchops niger This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/5234</u>	Breeds May 20 to Sep 15
Black-billed Cuckoo Coccyzus erythropthalmus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9399</u>	Breeds May 15 to Oct 10
Bobolink Dolichonyx oryzivorus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Bonaparte's Gull Chroicocephalus philadelphia This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Bridled Tern Onychoprion anaethetus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Sep 20
Brown Pelican Pelecanus occidentalis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/6034</u>	Breeds Jan 15 to Sep 30

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Buff-breasted Sandpiper Calidris subruficollis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9488</u>	Breeds elsewhere
Canada Warbler Cardellina canadensis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Cerulean Warbler Dendroica cerulea This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/2974</u>	Breeds Apr 29 to Jul 20
Clapper Rail Rallus crepitans This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 10 to Oct 31
<b>Common Eider</b> Somateria mollissima This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jun 1 to Sep 30
Common Loon gavia immer This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/4464</u>	Breeds Apr 15 to Oct 31
Common Tern Sterna hirundo This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/4963</u>	Breeds May 10 to Sep 10
<b>Cory's Shearwater</b> Calonectris diomedea This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

Double-crested Cormorant phalacrocorax auritus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/3478</u>	Breeds Apr 20 to Aug 31
Dovekie Alle alle This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/6041</u>	Breeds elsewhere
Dunlin Calidris alpina arcticola This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Eastern Whip-poor-will Antrostomus vociferus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 20
<b>Evening Grosbeak</b> Coccothraustes vespertinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Golden-winged Warbler Vermivora chrysoptera This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8745</u>	Breeds May 1 to Jul 20
Great Black-backed Gull Larus marinus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 20
Great Shearwater Puffinus gravis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
<b>Gull-billed Tern</b> Gelochelidon nilotica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9501</u>	Breeds May 1 to Jul 31

Herring Gull Larus argentatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 20 to Aug 31
Hudsonian Godwit Limosa haemastica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Kentucky Warbler Oporornis formosus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
King Rail Rallus elegans This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8936</u>	Breeds May 1 to Sep 5
Leach's Storm-petrel Oceanodroma leucorhoa This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds May 15 to Nov 20
Least Tern Sterna antillarum This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 20 to Sep 10
Lesser Yellowlegs Tringa flavipes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9679</u>	Breeds elsewhere
Long-eared Owl asio otus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3631</u>	Breeds elsewhere
Long-tailed Duck Clangula hyemalis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/7238</u>	Breeds elsewhere

Manx Shearwater Puffinus puffinus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Oct 31
Nelson's Sparrow Ammodramus nelsoni This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Sep 5
Northern Gannet Morus bassanus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Parasitic Jaeger Stercorarius parasiticus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
<b>Prairie Warbler</b> Dendroica discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
<b>Prothonotary Warbler</b> Protonotaria citrea This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
<b>Purple Sandpiper</b> Calidris maritima This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Razorbill Alca torda This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jun 15 to Sep 10
Red Phalarope Phalaropus fulicarius This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

Red-breasted Merganser Mergus serrator This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Red-headed Woodpecker Melanerpes erythrocephalus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Red-necked Phalarope Phalaropus lobatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Red-throated Loon Gavia stellata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
<b>Ring-billed Gull</b> Larus delawarensis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Roseate Tern Sterna dougallii This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds May 10 to Aug 31
<b>Royal Tern</b> Thalasseus maximus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 31
Ruddy Turnstone Arenaria interpres morinella This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere

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Seaside Sparrow Ammodramus maritimus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 20
Semipalmated Sandpiper Calidris pusilla This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9480</u>	Breeds elsewhere
Snowy Owl Bubo scandiacus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Surf Scoter Melanitta perspicillata This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Thick-billed Murre Uria lomvia This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 15
Whimbrel Numenius phaeopus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9483	Breeds elsewhere
White-winged Scoter Melanitta fusca This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Willet Tringa semipalmata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5

Wilson's Storm-petrel Oceanites oceanicus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Breeds elsewhere

Breeds May 10 to Aug 31

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

### No Data (–)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Black Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	<b>++</b> + <b>+</b>	++++	*+++	++++	<b>+</b> ++ <b>+</b>	****	++++	<b>┼┼┼</b> ♥	++++	<b>+</b> 1+ <b>≢</b>	****	*++*
Black Skimmer BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	<b>##</b> ++	++++	++++	++++	+ <b>+!</b> !	1111		1111	<b>!!!!</b> +	++++	++++	++++
Black-billed Cuckoo BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	┼┼┼♥	+	<b>┿</b> ╋╂╂	++++	••••	•••• < P		$(\oplus)$	<del>}</del> , ,
Bobolink BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	+++• C		++++K	Ņ	411	<b>##</b> ##	<b>**+</b> +	++++	++++
Bonaparte's Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****	++++	f##	<b>##††</b>	<b>+++</b> +	+++++	+ <b>**</b>	++++	++++	+++*	+***	****
Bridled Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	┼╂╂╂	++++	++++	++++	+++	<mark>┼┼</mark> ┼	++++	++++	++++

Brown Pelican Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	+++++	++++	++++	++++	++++	++++	+++	++++	<b>#</b> <u>+</u> <u>+</u> + <u>+</u>	++++	++++	++++
Buff-breasted Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++	++++	++++	+++•	₩₩┼₩	<b>+</b> +++		++++
Canada Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++		-\`	iiii V		*	<b>}</b> ₩	++++
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Cerulean Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++ R	++++ <mark> </mark> C	, MB	₩.	<del>111</del> +	++++	++++	++++	++++	++++
Clapper Rail BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	+++5	++++	<del>1</del> +++	┼╂╂╇	<b>!!!!</b>	####	***	***	<del>₩</del>	<del>₩</del> ₩₩	++++	++++
Common Eider Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	+++#	<b>**</b> ++	<b>#</b> + <b>#</b> +	++++	++++	++++	++++	++++	<b>*†††</b>	++++	****	<b>₩</b> ++++
Common Loon Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Common Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Cory's Shearwater Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Double-crested Cormorant Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

#### Dovekie

Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

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Dunlin BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	<b>+++</b> +	<b>++</b> +1	<b>+</b> ++ <b>+</b>	<b>**</b> ††	++++	<b>*</b> **†	<b>+</b> ≢ <b>+</b> ≢	++++	++++	++++	++++	++++
Eastern Whip-poor will BCC Rangewide (CON (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	++++	<b>₩</b> ₩ ₩	++++	++++	╂╂╂┼	++++	++++	++++	++++
Evening Grosbeak BCC Rangewide (CON (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	┼┼┿┼	++++	++++	++++	++++	++++	++++ 1		++++
Golden-winged Warbler BCC Rangewide (CON (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	++++			++++ 3	<del>l</del> ett	₩ ₩	++++	++++	++++
SPECIES								AUG	SEP	OCT		DEC
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	NOG	JLF	OCT	NOV	
Great Black-backed Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concerr (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		FEB	MAR	APR								

Gull-billed Tern ++++ ++++ +++++ ++++ + BCC Rangewide (CON) (This is a Bird of **Conservation Concern** (BCC) throughout its range in the continental USA and Alaska.) Herring Gull Non-BCC Vulnerable (This is not a Bird of **Conservation Concern** (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.) Hudsonian Godwit ++++ ++++ ++++ ++++ ++++ ++++ +++BCC Rangewide (CON) (This is a Bird of **Conservation Concern** (BCC) throughout its range in the continental USA and Alaska.) Kentucky Warbler BCC Rangewide (CON) (This is a Bird of **Conservation Concern** (BCC) throughout its range in the continental USA and Alaska.) King Rail ++++ BCC Rangewide (CON) (This is a Bird of **Conservation Concern** (BCC) throughout its range in the continental USA and Alaska.) Leach's Storm-++++ ++++ ++++ ++++petrel Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.) Least Tern ++++ ++++ ++++ ++++ ++++ BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird **Conservation Regions** (BCRs) in the

continental USA)

Lesser Yellowlegs BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	+++•	++++	<b>**+</b> +	++++	+***	****	**++	++++	++++	++++
Long-eared Owl BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	<b>┼┿┿</b> ┼	++++
Long-tailed Duck Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****	****	****	<b>*#+</b> +	<b>+</b> ++ <b>+</b>	****	<b>*</b> **†	++++	++++ < P	+++++		****
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Manx Shearwater Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	+++++	+++++ ; (C	R	С	Ő		+ + <del>1</del> +	1	+ + - +		+++	+-++
Nelson's Sparrow BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	┼╂╂╂	<u>+</u> +++	<u>+</u> +++	<u></u> + + + + + + + + + + + + +	<b>+</b> +++	****	<b>#</b> # <u>+</u> ++	++++
Northern Gannet Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	<b>**</b> +*	***+	+++#	****	++++	<b>₩</b> ++++	+++++	++++	++++	┼┿┼⋓	****	***

Parasitic Jaeger Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	++++	++++	++++	++++	++++	+++#	++++	++++	++++
Prairie Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	┼┿╪┇	<b>₩</b> ₩₩	<b>+</b> +++	<u></u>         	+++#	****	** <del>!</del> +	++++	++++
Prothonotary Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	╂╂╋╇	<b>###</b> #			++++	++++ < P		$(\oplus)$	₩₩
Purple Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)		+++1	••••	••••		111	ÐĤ	++++	++++	++++	+++#	****
Razorbill Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	<u></u> + + + + + + + + + + + + +	<b>++</b> +++	)[+]	++++	++++	┼╂╂╂	╂╂╂╂	╂╂╂╂	╂╂┼┼	++++	++++	++##
Red Phalarope Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		++++	++++	++++	++++	++++	++++	++++	++++	+++#	++++	++++

Red-breasted					****	++++	+++1			++++		
Merganser Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****		****	****	₩ <b>₩</b> ŢŢŦ	TTT	***	TTTT	<b>TT</b>	****	****	****
Red-headed Woodpecker BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	<b>++</b> +1	++++	++++	+ <b>+!!!</b>	++++	++++	***	<del>  </del> ++	++++	••••	++++
Red-necked Phalarope Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	++++ C	++++ ,O	++++	3	++++		++++	¥ŦŦŦ	++++
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Red-throated Loon BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	1111	11(1)	)01	<b>#</b> ###	****	++++	++++	++++	++++	<b>¦</b> ₩¦₩	****	****
Ring-billed Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)				***	***							

Roseate Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	++++	┼╋╋╂	<u> </u>	╂╂╂╂	╂╂╂╋	<b>₩</b> <u>+</u> <u></u>	++++	++++	++++
Royal Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	┼╫╫╫	╂╋╋╂	╂╂╇╂	<b>++++</b>	<u>+</u>	++++	++++	••••	++++ \/
Ruddy Turnstone BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	++++	┼┿┿┿	++++	++++	++++	****	+++•• 3	HH.	₩₩	<b>+</b> +∔ <b></b> ♦	<b>┼┿┿</b> ┼	++++
Rusty Blackbird BCC Rangewide (CON) (This is a Bird of	<b>***</b>	++++	***	-	₩	++++	++++	++++	┼┼┼╪	++++	***	<b>I</b> III
Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	. <	;C	P						·			
Conservation Concern (BCC) throughout its range in the continental USA and	<b>\</b> +++	÷C	} ++++	+++++	+ <mark>111</mark>	<b>++∎</b> +	++++	<mark>+∔+</mark> +	++∔	++++	++++	++++

Short-billed Dowitcher BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++	<b>**</b> ++	+##+	****	<b>₩</b> ₩ <u>+</u> +	<b>++</b> ++	++++	++++
Snowy Owl BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	<b>###</b> †	<b>##+</b> +	<b>+</b> + <b>+</b> +	++++	++++	++++	++++	++++	++++	┼┼┿╇	<b>∳</b> † <b>∳</b> ∳
Surf Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****	****	<b>***+</b>	<b>**++</b>	<b>+#++</b>	+++•	*+++ ~\`	++++	++++ < P	++++		****
Thick-billed Murre Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	+++++ < C	•++++ P	++++ C		IIN	1Dł	++++	++++	++++	++++	++++
SPECIES Whimbrel BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	jan ++++	FEB ++++	MAR ++++	APR +++ <b>+≠</b>	MAY ++++	JUN <b>┼</b> ₱┼┼	ju∟ • <b>•</b> ••••†	AUG ┼┿┼┿	SEP ♥♥↑♥	ост ++++	NOV ++++	dec ++++
White-winged Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	<b>++++</b>	++++	***+	++++	<b>***</b>	++++	++++	++++	++++	+++•	++++	<b>#</b> † <b>#</b> †



#### Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

#### What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian</u> <u>Knowledge Network (AKN</u>). This data is derived from a growing collection of <u>survey, banding, and citizen science</u> <u>datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

#### How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or yearround), you may refer to the following resources: <u>The Cornell Lab of Ornithology All About Birds Bird Guide</u>, or (if you are unsuccessful in locating the bird of interest there), the <u>Cornell Lab of Ornithology Neotropical Birds guide</u>. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS</u> <u>Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is not part means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory birds resources page.

# Facilities

# National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION

## **Fish hatcheries**

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

# Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers</u> <u>District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

A full description for each wetland code can be found at the National Wetlands Inventory website

#### Data limitations

<u>E1UBL</u> E1UBLx

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



## United States Department of the Interior

FISH AND WILDLIFE SERVICE Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: Consultation Code: 05E1LI00-2021-SLI-0635 Event Code: 05E1LI00-2021-E-01496 Project Name: Empire Wind - EW2 June 16, 2021

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq*.), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

	/
Consultation Code:	05E1LI00-2021-SLI-0635
Event Code:	05E1LI00-2021-E-01496
Project Name:	Empire Wind - EW2
Project Type:	POWER GENERATION
Project Description:	Empire Offshore Wind LLC (Empire; previously Equinor Wind US LLC)
	proposes to construct and operate an offshore wind energy project located
	in the designated Renewable Energy Lease Area OCS-A 0512 (Lease
	Area). The Lease Area covers approximately 79,350 acres (ac; 32,112
	hectares [ha]) and is located an average of 20 miles south of Long Island,
	east of the Rockaways.
	Empire is currently developing the federal and state permit applications
	that will support construction, operation, and decommissioning of the
	proposed offshore wind project. The first phase, the Empire Wind 1 (EW
	1) Project (previously referred to as the Empire Wind Gowanus Project),
	will deliver up to 816 MW of energy to the Gowanus Point of
	Interconnection (POI), Brooklyn, Kings County, New York. The second
	phase, the Empire Wind 2 (EW 2) Project (previously referred to as the
	Empire Wind Barrett Project), will deliver up to 1,260 MW of energy to
	the Oceanside POI, Town of Hempstead, Nassau County, New York.

**Project Location:** 

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@40.40793475000007,-73.37305279332645,14z</u>



Counties: Nassau County, New York

### **Endangered Species Act Species**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u>	Threatened
Birds	
NAME	STATUS
<ul> <li>Piping Plover Charadrius melodus</li> <li>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.</li> <li>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</li> <li>Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u></li> </ul>	Threatened
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern Sterna dougallii dougallii Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2083</u>	Endangered

#### **Flowering Plants**

#### NAME

Sandplain Gerardia *Agalinis acuta* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8128</u>

Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8549</u>

**Critical habitats** 

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

STATUS

Endangered

Threatened

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

CONSUL

# **Project information**

NAME

Empire Wind - EW2

#### LOCATION

Nassau County, New York

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#### DESCRIPTION

Equinor Wind US LLC (Equinor Wind) proposes to construct and operate the Project located in the designated Renewable Energy Lease Area OCS-A 0512 (Lease Area). The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located approximately 14 statute miles (mi) (22 kilometers [km]) south of Long Island, New York and 19.5 mi (31.4 km) east of Long Branch, New Jersey. Equinor Wind proposes to develop the entire Lease Area in what could be from one to up to a maximum of three individual phases, known as Empire Wind 1 (EW 1), Boardwalk Wind 1 (BW 1), and EW 2. The individual phases within the Lease Area will be electrically isolated and independent from each other. Each phase of development will, independently of one another,

connect via offshore substations to Points of Interconnection (POIs) at onshore locations by way of export cable routes and onshore substations.

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# Local office

Long Island Ecological Services Field Office

└ (631) 286-0485iiii (631) 286-4003

340 Smith Road Shirley, NY 11967-2258

# Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and projectspecific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Log in to IPaC.
- 2. Go to your My Projects list.
- 3. Click PROJECT HOME for this project.
- 4. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

# Mammals

NAME

Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/9045</u>

# Birds

NAME	STATUS
Piping Plover Charadrius melodus There is final critical habitat for this species. Your location is outside the critical habitat. <u>https://ecos.fws.gov/ecp/species/6039</u>	Threatened
Red Knot Calidris canutus rufa No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Roseate Tern Sterna dougallii dougallii No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2083 Flowering Plants	Endangered
NAME	STATUS
Sandplain Gerardia Agalinis acuta No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/8128</u>	Endangered
Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/8549</u>	Threatened

# Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

# Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> <u>birds-of-conservation-concern.php</u>
- Measures for avoiding and minimizing impacts to birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>conservation-measures.php</u>
- Nationwide conservation measures for birds <u>http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</u>

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of</u> <u>Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

American Oystercatcher Haematopus palliatus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8935</u>	Breeds Apr 15 to Aug 31
Arctic Tern Sterna paradisaea This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds May 20 to Aug 15
Atlantic Puffin Fratercula arctica This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/8943</u>	Breeds Apr 15 to Aug 15
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/1626</u>	Breeds Oct 15 to Aug 31
Black Scoter Melanitta nigra This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Black Skimmer Rynchops niger This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/5234</u>	Breeds May 20 to Sep 15
Black-billed Cuckoo Coccyzus erythropthalmus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9399</u>	Breeds May 15 to Oct 10
Black-legged Kittiwake Rissa tridactyla This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

<b>Bobolink</b> Dolichonyx oryzivorus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Bree
Bonaparte's Gull Chroicocephalus philadelphia This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Bree
Buff-breasted Sandpiper Calidris subruficollis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9488</u>	Bree
Canada Warbler Cardellina canadensis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Bree
Clapper Rail Rallus crepitans This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Bree
<b>Common Eider</b> Somateria mollissima This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Bree
Common Loon gavia immer This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/4464	Bree
Common Murre Uria aalge This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Bree
<b>Common Tern</b> Sterna hirundo This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Bree

https://ecos.fws.gov/ecp/species/4963

Breeds May 20 to Jul 31

Breeds elsewhere

Breeds elsewhere

Breeds May 20 to Aug 10

Breeds Apr 10 to Oct 31

Breeds Jun 1 to Sep 30

Breeds Apr 15 to Oct 31

Breeds Apr 15 to Aug 15

Breeds May 10 to Sep 10

<b>Cory's Shearwater</b> Calonectris diomedea This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Double-crested Cormorant phalacrocorax auritus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/3478</u>	Breeds Apr 20 to Aug 31
Dovekie Alle alle This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/6041	Breeds elsewhere
Dunlin Calidris alpina arcticola This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Great Black-backed Gull Larus marinus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 20
Great Shearwater Puffinus gravis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Gull-billed Tern Gelochelidon nilotica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9501</u>	Breeds May 1 to Jul 31
Herring Gull Larus argentatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 20 to Aug 31

Hudsonian Godwit Limosa haemastica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Least Tern Sterna antillarum This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 20 to Sep 10
Lesser Yellowlegs Tringa flavipes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9679</u>	Breeds elsewhere
Long-eared Owl asio otus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3631</u>	Breeds elsewhere
Long-tailed Duck Clangula hyemalis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/7238	Breeds elsewhere
Nelson's Sparrow Ammodramus nelsoni This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Sep 5
Northern Gannet Morus bassanus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Parasitic Jaeger Stercorarius parasiticus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
<b>Pomarine Jaeger</b> Stercorarius pomarinus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

<b>Prairie Warbler</b> Dendroica discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
<b>Purple Sandpiper</b> Calidris maritima This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Razorbill Alca torda This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jun 15 to Sep 10
Red-breasted Merganser Mergus serrator This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Red-necked Phalarope Phalaropus lobatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Red-throated Loon Gavia stellata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
<b>Ring-billed Gull</b> Larus delawarensis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Roseate Tern Sterna dougallii This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds May 10 to Aug 31
Royal Tern Thalasseus maximus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 31

Ruddy Turnstone Arenaria interpres morinella This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Seaside Sparrow Ammodramus maritimus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 20
Semipalmated Sandpiper Calidris pusilla This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9480</u>	Breeds elsewhere
Snowy Owl Bubo scandiacus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Sooty Tern Onychoprion fuscatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Mar 10 to Jul 31
Surf Scoter Melanitta perspicillata This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Whimbrel Numenius phaeopus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9483</u>	Breeds elsewhere
White-winged Scoter Melanitta fusca This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

Willet Tringa semipalmata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Wilson's Storm-petrel Oceanites oceanicus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Wood Thrush Hylocichla mustelina

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Breeds Apr 20 to Aug 5

Breeds elsewhere

Breeds May 10 to Aug 31

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

#### No Data (–)

A week is marked as having no data if there were no survey events for that week.

#### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Bald Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****	****	****	****	1911	1111	****	****	**+*	+∎∎ <mark>∎</mark>	****	****
Black Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****	<b>#</b> + <b>#</b> +	+++++	<b>₩₩+</b> ++	+++•	<b>#</b> ##†	<b>#</b> + <b>##</b>	++++	++++	++++	••••	++++
Black Skimmer BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++		3		<b>N</b> II	<b>₩</b> ₩++	++++	++++
Black-billed Cuckoo BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++ >C	++++ R	++(1	₩	++++	+ <b>∔</b> ∔∔	<del> </del>	<del> </del>	<mark>++</mark> ++	++++	++++
Black-legged Kittiwake Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	<b>#</b> + <b>#</b> #	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
Bobolink BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++ <mark>++</mark>	<u>+</u> +++	++++	+ <b>*</b> # <b>*</b>	****	++++	++++	++++

Bonaparte's Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	****	****	₩+++	<b>₩</b> <u>+</u> +++	+++++	++++	++++	<b>+++</b> +	+++++	+++#	₩+++	***1
Buff-breasted Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	++++	++++	++++	++++	+++#	++++	++++	++++	+++++
Canada Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	┼ <mark>╇╂╂</mark>	++++	++++ ~ \	<b>₩</b>	++++, S P	****	++++	++++
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Clapper Rail BCC - BCR (This is a Bird of Conservation	┼╪╫║	┼║♥♥	+===		WH.	(III)	TÍII					▋∎∔₿
Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)		- C	R	C	$\mathcal{S}$							
particular Bird Conservation Regions (BCRs) in the	ł	(*1)T+	R 1+++	-C ++++	++++	<b>₩</b>	<b>₩</b> <u></u>	<u>₩</u> ₩	<u>₩</u> ₩₩	++++	<b>₩</b> ∔ <b>₩</b> ₩	

Common Murre Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Common Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Cory's Shearwater Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Double-crested Cormorant Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

#### Dovekie

Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

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Dunlin BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	••••	****	8++8	8488	1111	<del> </del> #	+++++	<b>₩</b> ++ <b>₩</b>	<b>†</b> ≢≢∎	+111		1111
Great Black-backed Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)				1								
Great Shearwater Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	++++	++++	++++	++++ 2	+++++ V	++++ < P	+(+)	1444	++++
Gull-billed Tern BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++ 2 C	8	++{+•	<u>AM</u>		1111	<b>#</b> ##+	++++	++++	++++	++++
SPECIES Herring Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		DEC
Hudsonian Godwit BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++	++++	++++	++++	++++	+#++	++++	++++

Least Tern BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)		++++	++++	++ <mark>++</mark>	1111	1111	1111	1111	<mark>╂╂</mark> ┼╪	++++	++++	++++
Lesser Yellowlegs BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	****	# <b>#</b> ##	<b>#†##</b>	***			111+	++++	++++
Long-eared Owl BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)		++++	+#++	++++	++++	++++	++++	++++	++++	++++	++++ 0	$\overset{++++}{\sim}$
Long-tailed Duck Non-BCC Vulnerable (This is not a Bird of Conservation Concerr (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)				••++ C	++++	****	++++ 3	++++ }	€++}-	+11+	+++#	<b>#+##</b>
Nelson's Sparrow BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)	1	++++	))(†	++++	┼ <mark>╡╡</mark>	++++	++++	++++	<mark>+</mark> +++	+###	<b>**</b> ++	++++
Northern Gannet Non-BCC Vulnerable (This is not a Bird of Conservation Concerr (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		*1**	+ <b>**</b>	*++*	<b>***</b> †	<b>#</b> ++ <b>#</b>	**++	++++	++++	+++*	81	<b>₩</b> +++
Parasitic Jaeger Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		++++	++++	++++	++++	++++	++++	++++	+++#	+++#	++++	++++
---	-----	-----------	-------------	-------------	-------------	----------------	------	------	------	-------------	-------------	-------------
Pomarine Jaeger Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		++++	++++	++++	++++	++++	++++	++++	++++	++++	++++ 0	++++
Prairie Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)		++++	++++	+++#			3		₩IF	++++	++++	++++
Purple Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)		**** 2	R		μ <u>μ</u>	++++	++++	++++	++++	++++	♥┼♥▋	+**
SPECIES Razorbill Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	JAN	FEB	MAR ++++	APR ++++	MAY ++++	JUN + + + +	JUL	AUG	SEP	ост ++++	NOV ++++	DEC ++++



Royal Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concerr (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		++++	++++	+	<u>₩</u>	<b>+</b> +++	++++			<b>+</b> + <b>+#</b>	₩+++	++++
Ruddy Turnstone BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	****	<b>₩₩</b> ₩+	++++	++++	+===	<b>##</b> ++	++#	****	***	+++#	#++#	+***
Rusty Blackbird BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)	•	<b>₩</b> ++++	++++	++++	++++	++++	++++	++++	++++ 5 P	++++	(+++)	++++
Seaside Sparrow BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)	•	++++	+++++	+++II	0		<u>I</u>	hľi	***	****	++++	++++
Semipalmated Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)	~ \	+++++	<u>i</u> hti	+++#	•	<b>₩</b> ₽∔ቀ	***			## <b>†</b> #	++++	++++
Short-billed Dowitcher BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)	!	++++	++++	+++#		<b>#†</b> † <b>#</b>					++++	++++
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Snowy Owl BCC Rangewide (CON) (This is a Bird of Conservation Concerr (BCC) throughout its range in the continental USA and Alaska.)	•	<b>*</b> +++	++++	++++	++++	++++	++++	++++	++++	++++	+++∎	+++++

Sooty Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	<u>+</u> +++	<u>++++</u>	<u>+</u> +++	<u>+</u> +++	+++	++++	++++	++++ -	-+++
Surf Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	••••	<b>┼申ᡎ</b> ┼	#++#	<b>₩</b> ++++	++++	+ <b>##</b> +	+++	++++	++++	++++		·+++
Whimbrel BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++	++++ \}	++# 3	4771	NH HE	++++	++++ -	+++
White-winged Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	(	•++++ - C	**** R	•	ΝΨ	+##+	++++	++++	++++	++++	++	∎+++
Willet BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	<u>}</u> +++₩ ·	++++	+ <b>#</b> + <b>#</b>	+ <b>+11</b>					****	<del>1</del> ##1	++++ -	-+++

Wilson's Storm- petrel Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	++++	++++	++++	++++	+++#	++++	<b>₩</b> <u>+</u> ++ <b>₩</b>	+ <b>*</b> #*	++++	++++	++++	++++
Wood Thrush BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its	++++	++++	++++	<b>┼┼┼</b> ≢	+111	++++	++++	++++	++++	<b>₩</b> ₩ <u>+</u> +	++++	++++
range in the continental USA and Alaska.)										. 5	0	4

#### Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

#### What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian</u> <u>Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science</u> <u>datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

#### How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or yearround), you may refer to the following resources: <u>The Cornell Lab of Ornithology All About Birds Bird Guide</u>, or (if you are unsuccessful in locating the bird of interest there), the <u>Cornell Lab of Ornithology Neotropical Birds guide</u>. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS</u> <u>Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they

might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Facilities

## National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

## Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

# Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

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For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers</u> <u>District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

M1UBL E1UBL

ESTUARINE AND MARINE WETLAND

<u>M2US2P</u> <u>M2US2N</u> <u>E2US2N</u> A full description for each wetland code can be found at the National Wetlands Inventory website

#### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

#### ATTACHMENT N-2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NATURAL HERITAGE RESPONSE LETTER

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 | F: (518) 402-8925 www.dec.ny.gov

February 14, 2019

Stephen Ryan Tetra Tech, Inc. One Oxford Valley, Suite 200 Langhorne, PA 19047

Re: Empire Wind Project County: Kings, Nassau, Suffolk Town/City:

Dear Mr. Ryan:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed are reports of rare or state-listed animals and plants, and significant natural communities that our database indicates occur in the vicinity of the project site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 1 Office, Division of Environmental Permits, at dec.r1@dec.ny.gov, (631) 444-0365.

Sincerely,

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Nicholas Conrad Information Resources Coordinator New York Natural Heritage Program



Department of Environmental Conservation

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### The following state-listed animals have been documented in the vicinity of the Gowanus Route Alternatives.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for the project, contact the NYSDEC Region x Office, Division of Environmental Permits, at dep.r1@dec.ny.gov, (631) 444-0365.

The following species has been documented nesting on the Verrazano-Narrows Bridge.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Peregrine Falcon Breeding	Falco peregrinus	Endangered	

This report only includes records from the NY Natural Heritage database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.



### The following state-listed animals have been documented along the Ruland Road Route Alternative or in its vicinity.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for the project, contact the NYSDEC Region 1 Office, Division of Environmental Permits, at dep.r1@dec.ny.gov, (631) 444-0365.

The following species have been documented on Jones Beach Island, in the vicinity of the western route.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Piping Plover Breeding	Charadrius melodus	Endangered	Threatened
Roseate Tern Breeding	Sterna dougallii	Endangered	Endangered
Short-eared Owl Wintering	Asio flammeus	Endangered	
Common Tern Breeding	Sterna hirundo	Threatened	
Least Tern Breeding	Sternula antillarum	Threatened	
Black Skimmer Breeding	Rynchops niger	Special Concern	

The following species have been documented on Jones Beach Island, in the vicinity of the eastern route.

Piping Plover Breeding	Charadrius melodus	Endangered	Threatened
Short-eared Owl Wintering	Asio flammeus	Endangered	
Peregrine Falcon Breeding	Falco perigrinus	Endangered	

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING					
The following species have been documented on islands and salt marsh along Meadowbrook State Parkway.								
Short-eared Owl Breeding	Asio flammeus	Endangered						
Common Tern Breeding	Sterna hirundo	Threatened						
The following species have been documented on salt marsh islands near Wantaugh State Parkway.								
Common Tern Breeding	Sterna hirundo	Threatened						
Black Skimmer Breeding	Rynchops niger	Special Concern						
The following species has be	een documented at Cedar Cre	ek County Park near the W	antaugh State Parkway.					
Least Tern Breeding	Sternula antillarum	Threatened						
The following species has been documented at Massapequa County Preserve, adjacent to the proposed route.								
Least Bittern Breeding	lxobrychus exilis	Threatened						

This report only includes records from the NY Natural Heritage database.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.



### The following state-listed animals have been documented within the offshore lease area and proposed cable routes of the Empire Wind Project.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

## The following species have been documented regularly within the New York Bight and the offshore waters south of Long Island.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Humpback Whale Nonbreeding	Megaptera novaeangliae	Endangered	Endangered
Fin Whale	Balaenoptera physalus	Endangered	Endangered

# The following rare animal has been documented in the waters offshore of the two proposed landfalls of the Ruland Road Route Alternative.

We recommend that potential impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

## The animal in this report, while not listed by New York State as Endangered or Threatened, is rare in New York and of conservation concern.

Harlequin Duck	Histrionicus histrionicus	Unlisted	Critically Imperiled in NYS				
Nonbreeding							
Jones Beach Island West and Long Beach Island, 2018-03-31: Regularly observed wintering from Long Beach Island West at							
Long Beach east to Jones	Beach Island at Tobay Beach, and in	Jones Inlet.					

This report only includes records from the NY Natural Heritage database.



# The following rare plants, rare animals, and significant natural communities have been documented along the Ruland Road Route Alternative or in its vicinity.

We recommend that potential impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may still contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

## The plants in this report are listed as Endangered or Threatened by New York State, and/or are rare in New York State, and so are a vulnerable natural resource of conservation concern.

The animals in this report, while not listed by New York State as Endangered or Threatened, are rare in New York and are of conservation concern.

The natural communities in this report are considered significant from a statewide perspective by the NY Natural Heritage Program. Each community is either an example of a community type that is rare in the state, or a high-quality example of a more common community type. By meeting specific, documented criteria, the NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.

The following species and communities have been documented on Jones Beach Island, in the vicinity of the western route.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS					
Plants								
Seabeach Amaranth 2017 summer: Barrier island	<i>Amaranthus pumilus</i> beach.	Threatened and Federally Listed as Threatene	Imperiled in NYS d and Globally Rare					
Golden Dock	Rumex fueginus	Endangered	Critically Imperiled in NYS					
1992-09-28: Atlantic barrier beach interdunal swales.								
Retrorse Flatsedge	Cyperus retrorsus	Endangered	Critically Imperiled in NYS					
2003-08-14: Maritime dunes								
Marsh Straw Sedge	Carex hormathodes	Threatened	Imperiled in NYS					
2001-08-22: Brackish interdu	inal swales that are periodically	r flooded.						
Seaside Bulrush	Bolboschoenus maritimus ssp. paludosus	Threatened	Imperiled in NYS					
2011-09-19: The plants are growing in a complex of brackish swales between the foredunes, primary dunes, and secondary dunes.								
Red Pigweed	Oxybasis rubra var. rubra	Threatened	Imperiled in NYS					
1992-09-28: The plants are growing on the beach at the edge of a wet swale between low dunes.								

## The following species and communities have been documented on Jones Beach Island, in the vicinity of the western route (cont.).

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS					
Plants (cont.)								
Seabeach Knotweed	Polygonum glaucum	Rare	Vulnerable in NYS					
2011-09-19: The plants are grow	wing on a coastal barrier island m	naritime beach in front of fore	and Globally Uncommon edunes.					
Due gouffing and Domgelfling								
Dragonflies and Damselflies		l la l'acta d						
Rambur's Forktail	Ischnura ramburii	Unlisted	Imperiled in NYS					
Seaside Dragonlet	Erythrodiplax berenice	Unlisted	Imperiled in NYS					
2009-07-24: The habitat of the above two species is an ephemeral pool that varies from mostly freshwater to completely saltwater.								
Moths								
Pink Star Moth	Derrima stellata	Unlisted	Critically Imperiled in NYS					
Fawn Brown Dart	Euxoa pleuritica	Unlisted	Imperiled in NYS					
The Pink Streak	Dargida rubripennis	Unlisted	Status Uncertain					
2012-08-16: The above three moths were collected at the Jones Beach Nature Center.								
Beetles								
Hairy-necked Tiger Beetle	Cicindela hirticollis	Unlisted	Critically Imperiled in NYS					
2016-08-15: Beach.								
Significant Natural Ecological Com	nmunities							
Maritime Beach		High Quality Occ	urrence of Uncommon Community Type					
Jones Beach Island: This is Jones Beach Island.	a 16-mile long maritime beach a	djacent to a large dune syste	em along the south shore of					
Maritime Dunes		High Quality Occ	urrence of Uncommon Community Type					
	Jones Beach Island: This is an extensive maritime dune system with good diversity of native species, fairly intact ecological processes, and connection to other natural communities, but with some large swaths of invasives.							
Brackish Interdunal Swale	Brackish Interdunal Swales High Quality Occurrence of Rare Community Ty							
Jones Beach Island West: This is an extensive, diverse swale complex in an relatively intact maritime dunes system, but with large portions at advanced stages of exotic species invasion.								
Maritime Shrubland			High Quality Occurrence					
	Jones Beach Island West: This is a large maritime shrubland with good diversity and processes fairly intact, but with exotic plants abundant in some areas.							

# The following species and communities have been documented on Jones Beach Island, in the vicinity of the eastern route.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
Plants			
Seabeach Knotweed	Polygonum glaucum	Rare	Vulnerable in NYS and Globally Uncommon
2011-09-19: The plants are g	prowing on a coastal barrier island r	naritime beach in front of forec	lunes.
Beetles			
Hairy-necked Tiger Be	eetle Cicindela hirticollis	Unlisted	Critically Imperiled in NYS
2016-08-15: Beach.			
Significant Natural Ecological Co	ommunities		
Maritime Beach		High Quality Occur	rence of Uncommon Community Type
Jones Beach Island: This Jones Beach Island.	is a 16-mile long maritime beach a	djacent to a large dune system	along the south shore of
Maritime Dunes		High Quality Occur	rrence of Uncommon Community Type
	is an extensive maritime dune system d connection to other natural comm		
Maritime Shrubland			High Quality Occurrence
Jones Beach Island West exotic plants abundant in	t: This is a large maritime shrubland some areas.	d with good diversity and proce	sses fairly intact, but with
The following species has be	en documented on salt marsh	islands near Wantaugh St	ate Parkway.
Birds			
Forster's Tern Breeding	Sterna forsteri	Unlisted	Critically Imperiled in NYS
	Meadow and Cuba Island Group.		
The following community has Parkway.	s been documented in the cha	nnels, creeks, and bays ju	st east of Wantaugh State
Significant Natural Ecological C	Communities		

### Marine Back-barrier Lagoon

High Quality Occurrence of Rare Community Type

Great South Bay: This is a very large marine back-barrier lagoon that is in good condition within a fair quality, but mostly developed landscape.

### The following communities have been documented in the salt marshes along and near both the Wantaugh State Parkway and the Meadowbrook Parkway.

<b>COMMON NAME</b>	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
Significant Natural Ecologica	l Communities		
Low Salt Marsh		High Quality Occurre	ence of Uncommon Community Type
High Salt Marsh		High Quality Occurre	ence of Uncommon Community Type
Salt Panne		High Quality Occurre	ence of Uncommon Community Type

Hempstead Bay Wetlands: A complex system of salt marshes in tidal bays with variable tidal range.

#### The following species has been documented in Cow Meadow County Park near Meadowbrook State Parkway.

#### Plants

Fringed Boneset	Eupatorium torreyanum	Threatened	Imperiled in NYS

1992-11-15: The plants are in a sandy shrub thicket next to a salt marsh.

## The following species have been documented in Massapequa County Preserve adjacent to or near the proposed route.

#### Plants

<b>Coastal Carrion Flower</b>	Smilax pseudochina	Endangered	Critically Imperiled in NYS
1992-07-02: Damp pine barr	rens in a park preserve along a wate	er course through a suburban ar	ea.
Whip Nut Sedge	Scleria triglomerata	Endangered	Critically Imperiled in NYS
1992-08-27: A rutted road the	rough recently burned wet pine barr	ens. 1986: Woods in damp pine	barrens.
Low St. John's Wort	Hypericum stragulum	Endangered	Critically Imperiled in NYS
1990-07-09: Rutted road thro	ough pine barrens.		
Leggett's Pinweed 1987-07-28: The plants are ir	Lechea pulchella n wet, burned Long Island pine barre	Endangered ens.	Critically Imperiled in NYS
Yellow Flatsedge	Cyperus flavescens	Endangered	Critically Imperiled in NYS
2000-10-07: Edge of lake.			
Button Sedge	Carex bullata	Endangered	Critically Imperiled in NYS
1986-06-02: Stream margin	with red maple and Carex stricta ma	arsh.	

## The following species have been documented in Massapequa County Preserve adjacent to or near the proposed route (cont).

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
Dragonflies and Damselflies			
Needham's Skimmer	Libellula needhami	Unlisted	Vulnerable in NYS
2008-07-19: Massapequa La	ake, a lake within a bog.		
Seaside Dragonlet	Erythrodiplax berenice	Unlisted	Imperiled in NYS
2008-07-19: Pond adjacent	to proposed route.		
The following community has be	oon documented in Rothnage	State Park including as	liacont to Winding Poad
Significant Natural Ecological Cor		State Faix, including at	jacent to winding Road.
	minimues		
Coastal Oak-Heath Forest			Uncommon Community Type
Bethpage: This is a small co	oastal oak-heath forest consisting	of 11 patches ranging from 9	to 53 acres.
The following species have bee	n documented in Pinelawn C	emetery, which is along	Wellwood Road.
Butterflies			
Edwards' Hairstreak	Satyrium edwardsii	Unlisted	Vulnerable in NYS
1991-06-30: Pinelawn Cen	netery. The butterflies were found	in a dense scrub oak thicket	with scattered pitch pine.

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological

#### resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, from NatureServe Explorer at www.natureserve.org/explorer, and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org. For descriptions of all community types, go to www.dec.ny.gov/animals/97703.html for Ecological Communities of New York State.

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 | F: (518) 402-8925 www.dec.ny.gov

July 30, 2019

Stephen Ryan Tetra Tech, Inc. One Oxford Valley, Suite 200 Langhorne, PA 19047

Re: Empire Wind Project - revised Gowanus route County: Kings, Queens Town/City: City Of New York

Dear Mr. Ryan:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur along the proposed Gowanus Cable Route.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Division of Environmental Permits.

Sincerely,

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Nicholas Conrad Information Resources Coordinator New York Natural Heritage Program



Department of Environmental Conservation

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# The following state-listed animals have been documented along the proposed Gowanus Cable Route.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

# For information about any permit considerations for the project, contact the Division of Environmental Permits at NYSDEC Central Office or at the NYSDEC Region 2 Office.

The following species has been documented nesting on the Verrazano-Narrows Bridge, under which the proposed cable route passes.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING	
Peregrine Falcon Breeding	Falco peregrinus	Endangered		9017

The following species have been documented in the offshore waters through which the proposed cable route passes.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING	
Humpback Whale	Megaptera novaeangliae	Endangered	Endangered	15039
Fin Whale	Balaenoptera physalus	Endangered	Endangered	15040

This report only includes records from the NY Natural Heritage database.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 | F: (518) 402-8925 www.dec.ny.gov

September 20, 2019

Stephen Ryan Tetra Tech, Inc. One Oxford Valley, Suite 200 Langhorne, PA 19047

Re: Revised Empire Wind Project -- Equinor Wind US -- Lease Area OCS-A 0512 Offshore Wind Project -- Barrett Substation Route County: Nassau Town/City: Hempstead, City of Long Beach

Dear Mr. Ryan:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur on or in the vicinity of the Empire Wind Barrett onshore cable route, export cable route, offshore wind lease area, and Barrett substation.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC.

Sincerely,

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Nicholas Conrad Information Resources Coordinator New York Natural Heritage Program

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### The following state-listed and other rare animals have been documented near the onshore Barrett Substation Route.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing. The list also includes other rare animals that occur with these species; while unlisted by NYS, these other species are rare in the state and of conservation concern.

## The following species have been documented at Garrett Marsh, a salt marsh about 1/3 mile east of the proposed route in Island Park.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Common Tern Breeding	Sterna hirundo	Threatened	
Forster's Tern Breeding	Sterna forsteri	Unlisted	
Gull-billed Tern Breeding	Gelochelidon nilotica	Unlisted	

The following significant communities have been documented in the salt marshes and channels of Hempstead Bay; patches of these communities are closest to the proposed route at the north end of the proposed route in the channels south, west, and east of the Barrett substation.

These natural communities are considered significant from a statewide perspective by the NY Natural Heritage Program. Each community is either an example of a community type that is rare in the state, and/ or a high-quality example of a community type. The NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.

COMMON NAME	HERITAGE CONSERVATION STATUS
Low Salt Marsh	High Quality Occurrence of Uncommon Community Type
High Salt Marsh	High Quality Occurrence of Uncommon Community Type
Salt Panne	High Quality Occurrence of Uncommon Community Type

Hempstead Bay Wetlands: A complex system of salt marshes in tidal bays with variable tidal range.



### The following state-listed animals have been documented within the offshore lease area and proposed export cable routes of the Empire Wind Project.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

## The following species have been documented regularly within the New York Bight and the offshore waters south of Long Island.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Humpback Whale Nonbreeding	Megaptera novaeangliae	Endangered	Endangered
Fin Whale	Balaenoptera physalus	Endangered	Endangered

# The following rare animal has been documented in the waters offshore of the proposed landfall of the Barrett Substation Route.

## This animal, while not listed by New York State as Endangered or Threatened, is rare in New York and of conservation concern.

Harlequin Duck	Histrionicus histrionicus	Unlisted	Critically Imperiled in NYS	
Nonbreeding	g			
Jones Beach Island West and Long Beach Island, 2018-03-31: Regularly observed wintering from Long Beach Island at Long				
Beach east to Jones Bea	ach Island at Tobay Beach, and in Jones	s Inlet.		

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org.

Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org. For descriptions of all community types, go to www.dec.ny.gov/animals/97703.html for Ecological Communities of New York State.

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 | F: (518) 402-8925 www.dec.nv.gov

August 21, 2020

Stephen Ryan Tetra Tech. Inc. One Oxford Valley, Suite 200 Langhorne, PA 19047

Re: Empire Wind Project -- Equinor Wind US -- Lease Area OCS-A 0512 Offshore Wind Project -- Revised Route

County: Kings, Nassau Town/City: City Of Long Beach, City Of New York, Hempstead

Dear Mr. Ryan:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur at or in the vicinity of the project site and routes. Note that New York Natural Heritage has limited information on the biological resources of the offshore waters of the New York Bight; NYSDEC's Division of Marine Resources, Region 1, may have more information.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities, please contact the NYS DEC.

Sincerely,

Nich Como

Nicholas Conrad Information Resources Coordinator New York Natural Heritage Program



NEW YORK Department of Environmental Conservation

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This page includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed. This page also includes other rare animals that occur with these species; while unlisted by NYS, these other species are rare in the state and of conservation concern.

#### For information about any permit considerations for the project, contact NYSDEC.

The following state-listed animals have been documented within the offshore lease area and along all proposed export cable routes of the Empire Wind Project.

The following species have been documented regularly within the New York Bight and the offshore waters south of Long Island.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Humpback Whale	Megaptera novaeangliae	Endangered	Endangered
Fin Whale	Balaenoptera physalus	Endangered	Endangered

#### The following state-listed animal has been documented along the proposed Empire Wind Gowanus export cable route.

The following species has been documented nesting on the Verrazano-Narrows Bridge, under which the proposed cable route passes.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Peregrine Falcon Breeding	Falco peregrinus	Endangered	

# The following state-listed and other rare animals have been documented near the Empire Wind Barrett onshore cable route.

The following species have been documented at Garrett Marsh, a salt marsh about 1/3 mile east of the proposed route in Island Park.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Common Tern Breeding	Sterna hirundo	Threatened	
Forster's Tern Breeding	Sterna forsteri	Unlisted	
Gull-billed Tern Breeding	Gelochelidon nilotica	Unlisted	



The following rare animal has been documented in the waters offshore of both proposed Empire Wind Barrett landfalls, and along both the east and west Barrett export cable routes.

This animal, while not listed by New York State as Endangered or Threatened, is rare in New York and of conservation concern.

Harlequin Duck	Histrionicus histrionicus	Unlisted	Critically Imperiled in NYS
Nonbreeding			

Regularly observed wintering from Long Beach Island at Long Beach east to Jones Beach Island at Tobay Beach, and in Jones Inlet.

The following significant communities have been documented in the salt marshes and channels of Hempstead Bay; patches of these communities are near the Empire Wind Barrett onshore cable route to the west and east, and are closest to the proposed route at its north end in the channels south, west, and east of the Barrett substation.

These natural communities are considered significant from a statewide perspective by the NY Natural Heritage Program. Each community is a high-quality example of an uncommon community type. The NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.

COMMON NAME	HERITAGE CONSERVATION STATUS
Low Salt Marsh	High Quality Occurrence of Uncommon Community Type
High Salt Marsh	High Quality Occurrence of Uncommon Community Type
Salt Panne	High Quality Occurrence of Uncommon Community Type

Hempstead Bay Wetlands: A complex system of salt marshes in tidal bays with variable tidal range.

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org.

Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org. For descriptions of all community types, go to www.dec.ny.gov/ animals/97703.html for Ecological Communities of New York State.

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 I F: (518) 402-8925 www.dec.ny.gov

June 3, 2021

Stephen Ryan Tetra Tech, Inc. One Oxford Valley, Suite 200 Langhorne, PA 19047

Re: Empire Wind Project -- Equinor Wind US -- Lease Area OCS-A 0512 Offshore Wind Project -- 2021 Revised Route County: Kings, Nassau Town/City: City Of Long Beach, City Of New York, Hempstead

Dear Stephen Ryan:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur within the project area or in the vicinity of the project facilities and cable routes.

For the offshore portion of this project, the New York Natural Heritage Program database does not include full information on the rare and listed species occurring in New York's offshore marine waters. For information on the presence of rare and listed whales and other marine species in the vicinity of your project, on potential impacts and permit considerations regarding these species, and on other marine natural resources, please contact the NYSDEC Division of Marine Resources at (631) 444-0462, marineprotectedresources@dec.ny.gov.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please consult with NYSDEC.



#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 | F: (518) 402-8925 www.dec.ny.gov

Sincerely,

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Nicholas Conrad Information Resources Coordinator New York Natural Heritage Program

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# The following state-listed animals have been documented within the project area or in the vicinity of the project facilities and cable routes.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed. This page also includes other rare animals that occur with these listed species; while unlisted by NYS, these other species are rare in the state and of conservation concern.

For information about any permit considerations for the project, and for information on the presence of rare and listed whales and other marine species in offshore waters, contact the NYSDEC.

The following animal species have been documented at EW2 Landfall C - Lido Beach West, EW2 Landfall D - Lido Beach East, and the EW2 Barrett Construction Limits at Lido Beach.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Piping Plover Breeding	Charadrius melodus	Threatened	Threatened
Common Tern Breeding	Sterna hirundo	Threatened	
Least Tern Breeding	Sterna antillarum	Threatened	
Black Skimmer Breeding	Rynchops niger	Special Concern	

#### The following state-listed animal has been documented along the EW1 export cable route.

The following species has been documented nesting on the Verrazano-Narrows Bridge, under which the proposed cable route passes.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Peregrine Falcon Breeding	Falco peregrinus	Endangered	

## The following state-listed and other rare animals have been documented near the EW2 onshore export cable route.

The following species have been documented at Garrett Marsh, a salt marsh about 1/3 mile east of the proposed cable route in Island Park.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
Common Tern Breeding	Sterna hirundo	Threatened	
Forster's Tern Breeding	Sterna forsteri	Unlisted	
Gull-billed Tern Breeding	Gelochelidon nilotica	Unlisted	



### The following rare plants, rare animals, and significant natural communities have been documented within the project area or in the vicinity of the project facilities and cable routes.

# The following state-listed plant and significant natural communities have been documented at EW2 Landfall C - Lido Beach West, EW2 Landfall D - Lido Beach East, and the EW2 Barrett Construction Limits at Lido Beach.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
Seabeach Amaranth	Amaranthus pumilus	Threatened	Imperiled in NYS
		and Federally Listed as Threatene	ed and Globally Rare

Long Beach Island Lido Beach, 2019-summer: A barrier island and maritime beach with a sand to pebble and shell substrate. The beach is very wide with distant dunes throughout most of the site.

#### Marine Intertidal Gravel/Sand Beach

Long Beach Island: This is a large beach in fair to poor condition (with numerous bisecting jetties), but with portions in good condition in protected natural areas, set between a densely developed terrestrial landscape and the Atlantic Ocean.

#### Maritime Beach

Rare Community Type

Long Beach Island: This is a very large beach in fair to poor condition (with numerous bisecting jetties), but with portions in good condition in protected natural areas, set between a densely developed terrestrial landscape and the Atlantic Ocean.

## The following rare animal has been documented in the waters crossed by all four EW2 offshore export cables, just offshore of all four EW2 landfalls.

While not listed by New York State as Endangered or Threatened, this species is rare in New York and of conservation concern.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
Harlequin Duck	Histrionicus histrionicus	Unlisted	Critically Imperiled in NYS

Nonbreeding

Regularly observed wintering from Long Beach Island at Long Beach east to Jones Beach Island at Tobay Beach, and in Jones Inlet.

The following significant communities have been documented in the salt marshes and channels of Hempstead Bay; patches of these communities are near the EW2 onshore export cable route to the west and east, and are closest to the proposed route at its north end in the channels south, west, and east of both EW2 onshore substations. One small patch is adjacent to the east side of EW2 substation B.

COMMON NAME	HERITAGE CONSERVATION STATUS
Low Salt Marsh	High Quality Occurrence of Uncommon Community Type
High Salt Marsh	High Quality Occurrence of Uncommon Community Type
Salt Panne	High Quality Occurrence of Uncommon Community Type

Hempstead Bay Wetlands: A complex system of salt marshes in tidal bays with variable tidal range.

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological

The natural communities in this report are considered significant from a statewide perspective by the NY Natural Heritage Program. Each community is either an example of a community type that is rare in the state, or a high-quality example of an uncommon community type. By meeting specific, documented criteria, the NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, from NatureServe Explorer at www.natureserve.org/explorer, and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org. For descriptions of all community types, go to www.dec.ny.gov/ animals/97703.html for Ecological Communities of New York State.



May 9, 2022

Division of Fish and Wildlife New York State Department of Environmental Conservation Natural Heritage Program 625 Broadway, 5th Floor Albany, NY 12233-4757

#### Subject: Empire Offshore Wind LLC – Lease Area OCS-A 0512 Offshore Wind Project Nassau and Kings Counties, NY. Request for all documented occurrences of rare or listed species or significant natural communities

Greetings:

Tetra Tech, Inc. is currently under contract to Empire Offshore Wind LLC<sup>1</sup> (Empire; previously Equinor Wind US LLC) to assist with the siting and permitting of a proposed offshore wind energy project associated with the Bureau of Ocean Energy Management's (BOEM's) Lease Area OCS-A-0512 (the Project). The Project is planned for an area of approximately 80,000 acres in federal waters, located an average of 20 miles south of Long Island, east of the Rockaways (Figure 1).

Empire is currently developing the federal and state permit applications that will support construction, operation, and decommissioning of the proposed offshore wind project. The first phase, the Empire Wind 1 (EW 1) Project (previously referred to as the Empire Wind Gowanus Project), will deliver up to 816 MW of energy to the Gowanus Point of Interconnection (POI), Brooklyn, Kings County, New York.<sup>2</sup> The second phase, the Empire Wind 2 (EW 2) Project (previously referred to as the Empire Vind Barrett Project), will deliver up to 1,260 MW of energy to the Oceanside POI, Town of Hempstead, Nassau County, New York.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> Equinor Wind US LLC (Equinor Wind) assigned the Lease to Empire Offshore Wind LLC (Empire) on January 27, 2021. Previous correspondence refers to Equinor Wind as the Lease holder.

<sup>&</sup>lt;sup>2</sup> On July 18, 2019, New York's Governor announced Empire and its 816 MW EW 1 Project as a winning bidder in the State's competitive solicitation for Offshore Wind Renewable Energy Credits.

<sup>&</sup>lt;sup>3</sup> On January 13, 2021, New York's Governor announced Empire and its 1,260 MW EW 2 Project as a winning bidder in the State's competitive solicitation for Offshore Wind Renewable Energy Credits.

Previous design alternatives were subject to prior consultation to NYSDEC NHP (dated January 16, 2019, June 26, 2019, August 28, 2019, July 10, 2020, and April 20, 2021; with responses received February 14, 2019 and July 30, 2019, September 20, 2019, August 21, 2020, and June 3, 2021, respectively). Since this prior consultation, the potential landfall locations, onshore substation locations, and offshore export cable, onshore export cable, and interconnection cable routes to the point of interconnections have gone through review and were subsequently refined. Therefore, in order to satisfy BOEM requirements related to biological resources, including threatened and endangered species, the most recent potential landfall locations, offshore export cable, onshore export cable, interconnection cable routes, and onshore substation locations are submitted for review.

To assist in completing the associated effort, figures showing the most recent potential landfall locations, offshore export cable routes, onshore export cable and interconnection cable routes, and onshore substations for EW 1 and EW 2 are enclosed (Figure 2 and Figure 3, respectively). Please note that the routes remain under review and are subject to further change. Please provide any information you may have regarding the presence of rare or listed species or significant natural communities that may be present on or in the immediate vicinity of the proposed Project to my attention at:

Tetra Tech, Inc. One Oxford Valley, Suite 200 Langhorne, PA, 19047 Email: Steve.Ryan@tetratech.com

Included with this request are GIS shape files illustrating the locations of the proposed offshore facilities and the onshore development for EW 1 and EW 2, including proposed route options, to facilitate your review. If you have any questions regarding this request, please contact me by telephone at (215) 702-4048 or email at steve.ryan@tetratech.com. Thank you for your assistance in obtaining this information.

Very truly yours,

Sta S Ban.

Stephen Ryan Biologist

cc: Eva Land (Empire) Katherine Miller (Tetra Tech) Sam Guffey (Tetra Tech)





### **TETRATECH**









### **TETRATECH**