

**A. Background**

1. Name of proposed project, if applicable:  
*AT&T – SB4889 Rattlesnake Lake (AT&T)*
  
2. Name of applicant:  
*New Cingular Wireless PCS, LLC (“AT&T”)  
19801 SW 72nd Ave #100  
Tualatin, OR 97062*
  
3. Address and phone number of applicant and contact person:  
*Smartlink  
11232 120th Ave NE, Suite 204  
Kirkland, WA 98034*  
  
*CONTACT: Nancy Sears  
(425) 444-1434  
Email: Nancy.sears@smartlinkgroup.com*
  
4. Date checklist prepared:  
*December 21, 2022*
  
5. Agency requesting checklist:  
*King County – Department of Local Services, Permitting Division*
  
6. Proposed timing or schedule (including phasing, if applicable):  
*The proposed project is anticipated to begin within 3 months of receiving all of the required entitlements and approvals and will be completed in approximately 60 days. No phasing is anticipated.*
  
7. Do you have any plans for future additions, expansion, or further activity related to this proposal? If yes, explain.  
*It is contemplated that additional antenna facilities may be placed on the support structure in the future. However, currently there are no specific plans for additions, expansion, or further activity related to or connected with this proposal.*
  
8. List any environmental information that has been or will be prepared related to this proposal.  
*Site survey, photo simulations of proposed tower, geotechnical study, environmental studies required for compliance with FCC NEPA/106 processes related to new wireless tower proposals, as necessary.*
  
9. Are other applications pending for governmental approvals affecting the property covered by your proposal? If yes, please explain.  
*Unknown.*
  
10. List any government approvals or permits needed for your proposal:

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State Environmental Policy Act (SEPA) Review

*Lease Agreement*

*King County—Conditional Use Permit*

*King County—SEPA Review*

*King County—Communications Facility Permit*

*King County—Building Permit*

11. Give a brief, complete description of your proposal, including the proposed uses and size of the project and site. There are several questions addressed later in this checklist asking you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

*AT&T is proposing to build a new 145' tower, a 140' monopole ("TSS", "the tower", and/or "facility") with the antennas camouflaged as a fir tree ("tree topper"), in the wooded portion of the subject property.*

*Equipment on the pole will consist of up to 12 antennas, 24 remote radio units, 3 surge suppressors and associated cables. Antennas and associated equipment will be painted dark green to blend with the faux branches and surrounding trees. There will be room for 2 additional carriers on the pole. Ground equipment will consist of a 10' x 10' walk-in equipment cabinet (WIC) and a 30kW diesel generator on a concrete pad. All equipment will be within a 30'x30' lease area surrounded by a chain link fence with privacy slats, topped with security wire and secured by 12' wide double gate with lock. The site will be screened by a combination of existing vegetation and new landscape buffer consisting of evergreen landscaping in compliance with King County Code 21A.26.060A and 21A.16.040A.*

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including street address, section, township, and range. If this proposal occurs over a wide area, please provide the range or boundaries of the site. Also, give a legal description, site plan, vicinity map, and topographic map. You are required to submit any plans required by the agency, but not required to submit duplicate maps or plans submitted with permit applications related to this checklist.

**Street Address:** *16925 Cedar Falls Rd SE, North Bend, WA 98054*

**Parcel No.** *272308-9004*

*A legal description, site plan, vicinity map, and topographic map are included in Attachment 3 —Zoning Drawings to AT&T's Communications Facility application.*

*The subject property of this proposal is located in a heavily treed area in the southern portion of the King County Solid Waste Division land. The location of the proposed CF and TSS ("the project") on the property is currently unused and undeveloped. The proposed lease area for the project is approximately 154'10" north of the southern property line and approximately 199' from the nearest residence to the southwest. Access to the proposed project is available off 434th Ave SE via a proposed gravel drive that will extend approximately 117' in a NNE direction.*

## B. Environmental Elements

### 1. Earth

- a. General description of the site (circle one) Flat, rolling, hilly, steep slopes, mountainous, other \_\_\_\_\_.

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## State Environmental Policy Act (SEPA) Review

*The proposed tower lease area is located on a primarily flat section of undeveloped, raw land in the southern section of the parcel approximately 154'10" from the south property line, 2478'11" from the north property line, 425'10" from the west property line and 626'4" from the east property line.*

- b. What is the steepest slope on the site and the approximate percentage of the slope?

*The steepest slope on the proposed project area is between 1-15%.*

- c. What general types of soils are found on the site (e.g., clay, sand, gravel, peat, muck)? Please specify the classification of agricultural soils and note any prime farmland.

*According to the [Websoilsurvey.sc.egov.usda.gov](http://Websoilsurvey.sc.egov.usda.gov) the soils in the area are dominated by Klaus sandy loam, 0-8 percent slopes. Please see Exhibit 1-Soils Map*

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, please describe.

*No such surface indications or history of unstable soils in the immediate vicinity were identified or are known.*

- e. Describe the purpose, type, and approximate quantities of any filling or proposed grading. Also, indicate the source of fill.

*The proposed wireless facility will involve leveling of the immediate site and access drive (approx. 7360 sf) with new crushed rock covering approximately 3170 sf and excavation for the tower foundation. Additional details are located in Attachment 13— Technical Information Report to AT&T's Communications Facility application.*

- f. Could erosion occur as a result of clearing, construction, or use? If so, please describe.

*Erosion as a result of clearing, construction, or use is unlikely. However, erosion/sediment control bags and a silt fence will be installed around the area to be disturbed. Furthermore, a Grading & Drainage Plan as well as a Stormwater Pollution Prevention Plan have been prepared for the project and are included in Attachment 3-Zoning Plans to ATT&T's Communication Facility application.*

- g. What percentage of the site will be covered with impervious surfaces after the project construction (e.g., asphalt or buildings)?

*Post-construction impervious surface area will be approximately 1.6%.*

- h. Proposed measures to reduce or control erosion, or other impacts to the earth include:

*All grading and excavation activities will be performed per King County regulations and BMPs.*

## 2. Air

- a. What types of emissions to the air would result from this proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

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## State Environmental Policy Act (SEPA) Review

*None other than negligible short-term dust and construction vehicle exhaust during the installation of the project. Upon completion of the CF, there will be no emissions to the air during operation. A proposed low-sulfur fueled generator will supply "emergency only" backup power. To ensure reliability, the generator will run once a month for 15 minutes and would only operate for an extended period of time in the event of a commercial power outage.*

- b. Are there any off-site sources of emissions or odor that may affect your proposal. If so, please describe.

*None.*

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

*None required.*

### 3. Water

- a. Surface Water:

- 1) Is there any surface water body on or in the vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, and wetlands)? If yes, describe the type and provide names and into which stream or river it flows into.

*Rainbow Lake (as labeled on Google Earth) appears to be a small private lake approximately 1485' SE of the proposed site, with no apparent connection to any streams or rivers. Rattlesnake Lake is approximately 4200' SW of the proposed site and is spring fed by the Cedar River.*

- 2) Will the project require any work within 200 feet of the described waters? If yes, please describe and attach available plans.

*None.*

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected.

Indicate the source of fill material.

*None.*

- 4) Will the proposal require surface water withdrawals or diversions? Please provide description, purpose, and approximate quantities:

*No.*

- 5) Does the proposal lie within a 100-year floodplain? If so, please note the location on the site plan.

*No, per King County and FEMA Flood Map FIRM Panel 530071, Map No. 53033C01059H; attached as Exhibit 2.*

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

*No.*

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State Environmental Policy Act (SEPA) Review

b. Ground Water:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Please give description, purpose, and approximate quantities.

*No.*

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources; (e.g., domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the size and number of the systems, houses to be served; or, the number of animals or humans the systems are expected to serve.

*None.*

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal (include quantities, if known). Where is this water flow? Will this water flow into other waters? If so, describe.

*The only potential source of runoff would be surface water. The TIR included with AT&T's Application for the proposed facility addresses stormwater management.*

- 2) Could waste materials enter ground or surface waters? If so, generally describe.

*No.*

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe?

*No.*

- 4) Proposed measures to reduce or control surface, ground, runoff water impacts, and drainage pattern impacts, if any:

*All drainage and control activities will be performed per King County regulations, as outlined in the TIR included in AT&T's Application for the proposed facility.*

**4. Plants**

a. Check or circle types of vegetation found on the site

\_\_\_deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

\_\_\_shrubs

\_\_\_grass

\_\_\_pasture

\_\_\_crop or grain

\_\_\_orchards, vineyards or other permanent crops.

\_\_\_wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

\_\_\_water plants: water lily, eelgrass, milfoil, other \_\_\_other types

of vegetation

b. What kind and amount of vegetation will be removed or altered?

*Eleven evergreen trees (4544 board feet) in the area of the facility will be removed during construction as shown in Attachment 3 – Zoning Drawings, page W1.0-Tree Removal Plan submitted with AT&T's application for the proposed facility.*

c. List threatened or endangered species on or near the site.

*Pursuant to U.S Fish & Wildlife Service (IPaC website), there are no specific endangered plant species. See Exhibit 3 attached.*

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## State Environmental Policy Act (SEPA) Review

- d. List proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site:

*AT&T proposes to use the existing vegetation on the West, north and east sides of the leased area and to add a 10' landscape buffer on the south side (Type 1 Landscaping as per KCC 21A.26.060A and 21A.16.040A).*

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### 5. Animals

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site:

Examples include:

- Birds: hawk, heron, eagle, songbirds, other:
- Mammals: deer, bear, elk, beaver, other:
- Fish: bass, salmon, trout, herring, shellfish, other \_\_\_\_\_

*Eagle, Deer*

- b. List any threatened or endangered species known to be on or near the site.

*Pursuant to U.S Fish & Wildlife Service (IPaC website) 6 species are endangered in this area: North American Wolverine, Gray Wolf, Marbeled Murrelet, Yellow-billed Cuckoo, Bull Trout, and the Monarch Butterfly. See Exhibit 3 attached*

Revised 12/31/14

- c. Is the site part of a migration route? If so, please explain.

*Pursuant to U.S Fish & Wildlife Services (IPaC and eBird locator), this is not a migration route.*

- d. List proposed measures to preserve or enhance wildlife, if any:

*None proposed.*

- e. List any invasive animal species known to be on or near the site.

*None known.*

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### 6. Energy and Natural Resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

*Electric power provided.*

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, please describe.

*No.*

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts:

*None proposed.*

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### 7. Environmental health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, please describe.

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## State Environmental Policy Act (SEPA) Review

*No, the antenna array and all future equipment to be located on the proposed tower will meet the FCC public RF exposure level standards.*

Describe any known or possible contamination at the site from present or past use.

*None known.*

1) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

*No known pipelines are within area or the vicinity.*

2) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

*Backup generator's low-sulfur diesel tank is double-walled. Batteries are vented and "double walled"; battery cabinet has elevated lip for containment. The proposed project will present no known environmental health hazards; accordingly, AT&T has not proposed any measures to reduce or control environmental health hazards.*

3) Describe special emergency services that might be required.

*None required.*

4) Proposed measures to reduce or control environmental health hazards, if any:

*The proposed project will present no known environmental health hazards.*

### b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

*None.*

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours the noise would come from the site.

*The AC units to cool the equipment in the WIC and monthly testing of the back-up generator (approximately 15 minutes) except in the event of a power loss. Please see Attachment xx – Noise Report submitted with the application.*

3) Proposed measures to reduce or control noise impacts:

*An 8ft fence with noise barrier around the south and east sides of the equipment will be installed as outlined in Attachment 12 – Noise Report submitted with AT&T's application.*

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## 8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

*The northern portion of the project site is a King County waste station and the southern portion is unused wood land with a power transmission easement. No, the proposed CF will not negatively affect current uses. The proposed project will improve wireless and emergency services.*

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

*The project site has not been used for agriculture.*

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## State Environmental Policy Act (SEPA) Review

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversized equipment access, the application of pesticides, tilling, and harvesting? If so, how:

*No.*

- c. Describe any structures on the site.

*Building associated with the waste management business..*

- d. Will any structures be demolished? If so, please describe.

*No.*

- e. What is the current zoning classification of the site?

*The site is zoned Rural Area (RA-5) of unincorporated King County.*

- f. What is the current comprehensive plan designation of the site?

*The Comp Plan designation of the site is RA; not within City of Sammamish's UGA.*

- g. What is the current shoreline master program designation of the site?

*Not applicable.*

- h. Has any part of the site been classified as a critical area by the city or county? If so, please specify.

*No part of the proposed project area has been classified as a critical area by the county.*

- i. How many people would reside or work in the completed project?

*Zero (0), as the proposed wireless facility is not staffed.*

- j. How many people would the completed project displace?

*None.*

- k. Please list proposed measures to avoid or reduce displacement impacts, if any:

*N/A.*

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

*AT&T seeks Conditional Use Permit approval from King County for the proposed facility. The proposed project has been designed to be compatible with the neighborhood and is screened by existing trees. Additional mitigation measures include: Break Point engineered TSS, landscape plan, no artificial lighting, use of compatible paint colors, and fencing to screen and reduce visual impacts in the surrounding greater Sammamish urban and rural landscape.*

- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

*AT&T does not anticipate this facility to impact agricultural and forest lands of long-term commercial significance.*

### 9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

*None.*

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

*None.*

- c. Proposed measures to reduce or control housing impacts, if any:

*Not applicable.*



### 10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas? What is proposed as the principal exterior building materials?  
*The lightning rod atop the proposed monopole tower will not exceed 154'.*
- b. What views in the immediate vicinity would be altered or obstructed?  
*The new tower will be visible in the immediate vicinity. It is designed to blend into the area.*
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
*The proposed facility is designed to blend into this mixed rural and urban neighborhood by siting it to use existing trees as natural screening. Best practices for concealment will be applied as required by King County.*

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### 11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?  
*None.*
- b. Could light or glare from the finished project be a safety hazard or interfere with views?  
*No.*
- c. What existing off-site sources of light or glare may affect your proposal?  
*None.*
- d. Proposed measures to reduce or control light and glare impacts:  
*AT&T will use a non-glare finish and conceal antennas, RRHs, and accessory equipment concealed inside the proposed monopole tower and include a landscaping buffer to mitigate the visual impact of the facility.*

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### 12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?  
*Rattlesnake Lake and Cedar Falls trails are within a mile of the proposed site.*
- b. Would the project displace any existing recreational uses? If so, please describe.  
*No. The proposed facility will not displace any existing recreational uses. The proposed project will improve wireless and emergency services to recreators.*
- c. Proposed measures to reduce or control impacts on recreation, including recreational opportunities to be provided by the project or applicant, if any:  
*Not applicable. There is no anticipated impact on recreation; accordingly, AT&T has not proposed any measures to reduce or control impacts on recreation.*

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### 13. Historic and cultural preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.  
*AT&T researched Washington State, King County and Federal Preservation Registers and found no places or objects on or near the site which are listed or proposed for national, state, or local preservation registers.*
- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any

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## State Environmental Policy Act (SEPA) Review

material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

*None known.*

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

*AT&T researched the National Register of Historic Places, historical data from state and federal departments, and available GIS data and found no landmarks or evidence of historic, archaeological, scientific, or cultural importance in proximity to the proposed site.*

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

*Not applicable. No cultural or historic resources have been identified at the proposed project site; accordingly, AT&T has not proposed any measures to reduce or control impacts. AT&T will comply with all applicable laws regarding notification, etc., during construction.*

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### 14. Transportation

a. Identify the public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

*The site is served by 434th Ave. SE and a proposed access drive will extend from the entrance of the property off of 434th Ave. SE.*

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

*Public transportation is not relevant as this is an unmanned facility.*

c. How many parking spaces would the completed project have? How many would the project eliminate?

*No parking is proposed or eliminated for the proposed project.*

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

*The proposed project will not require any new roads, streets, or other transportation facilities.*

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

*No, the proposed project will not use water, rail, or air transportation.*

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

*Typically, there will be one (1) maintenance check per month or as needed for any outages. This will be an unmanned wireless telecommunications facility.*

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

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State Environmental Policy Act (SEPA) Review

No.

**h.** Proposed measures to reduce or control transportation impacts, if any:

*The proposed support tower is an unmanned facility. No transportation impacts will be created by the proposed facility; accordingly, AT&T has not proposed any measures to reduce or control transportation impacts.*

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**15. Public Services**

**a.** Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, please generally describe.

*No. The proposed facility will not result in an increased need for public services.*

**b.** Proposed measures to reduce or control direct impacts on public services, if any:

*Not applicable. The proposed project will not impact public services.*

**16. Utilities**

**a.** Circle the utilities currently available at the site: **electricity,** natural gas, water, refuse **service,** **telephone, sanitary sewer, septic system,** other.

**b.** Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed:  
*AT&T proposes to utilize power and fiber at the proposed site, both routed underground from the nearest source on the subject parcel.*

**c.** Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

**Signature:** Nancy Sears

**Date Submitted:** 1/16/2023

*Nancy Sears / Smartlink LLC on behalf of New Cingular Wireless PCS, LLC ("AT&T")*

Supplemental sheet for non-project actions (IT IS NOT NECESSARY to use this sheet for project actions)

*AT&T has not proposed any additional non-project actions.*

EXHIBIT 1

Soil Map—Snoqualmie Pass Area, Washington (Parts of King and Pierce Counties)  
(SB4889 Rattlesnake Lake (AT&T))



Map Scale: 1:3,940 if printed on A portrait (8.5" x 11") sheet.

0 50 100 200 300 Meters

0 150 300 600 900 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84



Soil Map—Snoqualmie Pass Area, Washington (Parts of King and Pierce Counties)  
(SB4889 Rattlesnake Lake (AT&T))


## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Snoqualmie Pass Area, Washington (Parts of King and Pierce Counties)  
Survey Area Data: Version 23, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2019—Jul 29, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

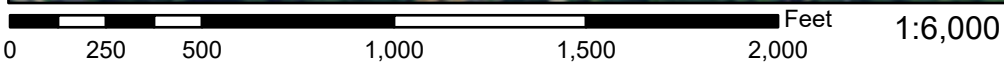
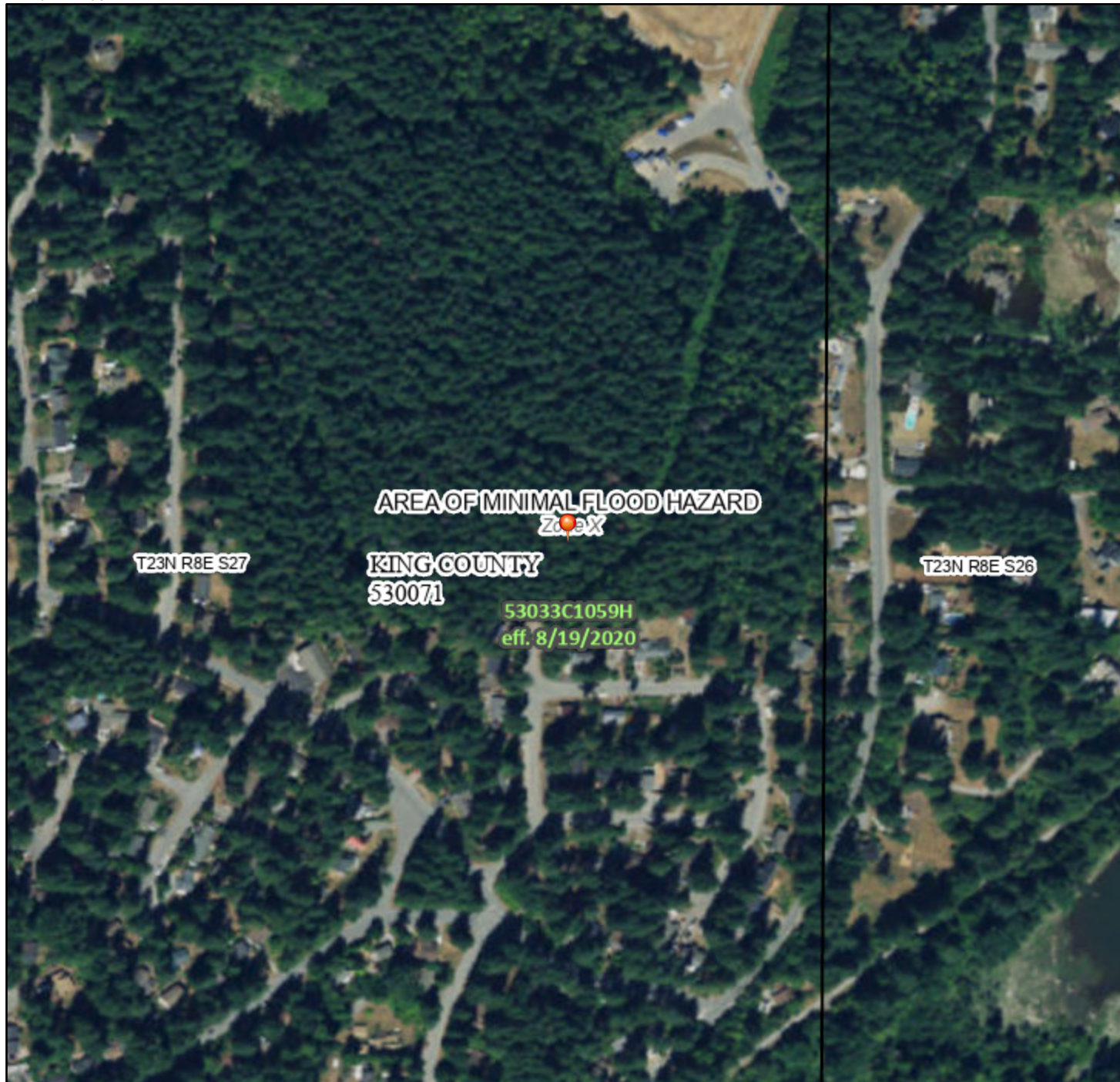
## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
111	Klaus sandy loam, 0 to 8 percent slopes	54.0	77.3%
113	Klaus sandy loam, 30 to 65 percent slopes	14.3	20.4%
195	Pits	1.6	2.3%
<b>Totals for Area of Interest</b>		<b>69.8</b>	<b>100.0%</b>

# National Flood Hazard Layer FIRMette



121°46'W 47°26'57"N



121°45'23"W 47°26'32"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/28/2022 at 2:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# 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.

## Location

King County, Washington



## Local office

Washington Fish And Wildlife Office

☎ (360) 753-9440

📅 (360) 753-9405



510 Desmond Drive Se, Suite 102  
Lacey, WA 98503-1263

NOT FOR CONSULTATION

# 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 project-specific 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. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) 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 [NOAA Fisheries](#) for [species under their jurisdiction](#).

- 
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), 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	STATUS
<p>Gray Wolf <i>Canis lupus</i></p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="https://ecos.fws.gov/ecp/species/4488">https://ecos.fws.gov/ecp/species/4488</a></p>	Endangered
<p>North American Wolverine <i>Gulo gulo luscus</i></p> <p>Wherever found</p> <p>No critical habitat has been designated for this species.</p> <p><a href="https://ecos.fws.gov/ecp/species/5123">https://ecos.fws.gov/ecp/species/5123</a></p>	Proposed Threatened

## Birds

NAME	STATUS
<p>Marbled Murrelet <i>Brachyramphus marmoratus</i></p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="https://ecos.fws.gov/ecp/species/4467">https://ecos.fws.gov/ecp/species/4467</a></p>	Threatened
<p>Yellow-billed Cuckoo <i>Coccyzus americanus</i></p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a></p>	Threatened

## Fishes

NAME	STATUS
<p>Bull Trout <i>Salvelinus confluentus</i></p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="https://ecos.fws.gov/ecp/species/8212">https://ecos.fws.gov/ecp/species/8212</a></p>	Threatened

## Insects

NAME	STATUS
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Monarch Butterfly *Danaus plexippus*

Candidate

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9743>

## 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 [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (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 [below](#). 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 [E-bird data mapping tool](#) (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 [below](#).

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.)

**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.

<https://ecos.fws.gov/ecp/species/1626>

Breeds Jan 1 to Sep 30

**Black Swift** *Cypseloides niger*

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

<https://ecos.fws.gov/ecp/species/8878>

Breeds Jun 15 to Sep 10

**Evening Grosbeak** *Coccothraustes vespertinus*

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

Breeds May 15 to Aug 10

**Olive-sided Flycatcher** *Contopus cooperi*

Breeds May 20 to Aug 31

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

<https://ecos.fws.gov/ecp/species/3914>

**Rufous Hummingbird** *selasphorus rufus*

Breeds Apr 15 to Jul 15

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

<https://ecos.fws.gov/ecp/species/8002>

**Western Grebe** *aechmophorus occidentalis*

Breeds Jun 1 to Aug 31

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

<https://ecos.fws.gov/ecp/species/6743>

## 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:

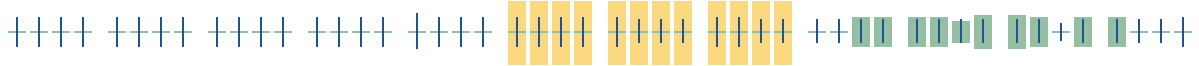
1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability 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  $0.05/0.25 = 0.2$ .







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



**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](#) 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 list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) 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 [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) 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 ([Eagle Act](#) 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 [Rapid Avian Information Locator \(RAIL\) Tool](#).

**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 [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

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 or migrating in my 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 query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. 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 [Birds of Conservation Concern](#) (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 [Eagle Act](#) 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 [Northeast Ocean Data Portal](#). 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 [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) 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 [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

## What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) 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.

## Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

THERE ARE NO KNOWN COASTAL BARRIERS AT THIS LOCATION.

### Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

### Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be

subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact [CBRA@fws.gov](mailto:CBRA@fws.gov).

## Facilities

### National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) 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 [NWI wetlands](#) 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.S. Army Corps of Engineers District](#).

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

#### 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 tubercid 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.