Westport Light State Park Wildlife Habitat Assessment

AECOM

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Grays Harbor County, Washington

Washington State Parks and Recreation Commission

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Acronym and Abbreviations	Definition
BCC	Birds of Conservation Concern
BGEPA	Bald and Golden Eagle Protection Act
ESA	Endangered Species Act
GIS	geographic information system
GPS	global positioning system
IPaC	USFWS Information for Planning and Consultation
МВТА	Migratory Bird Treaty Act
NMFS	National Marine Fisheries Service
PHS	Priority Habitats and Species
SWIFD	Statewide Washington Integrated Fish Distribution
USFWS	U.S. Fish and Wildlife Service
WSPRC	Washington State Parks and Recreation Commission
WLSP	Westport Light State Park
WDFW	Washington Department of Fish and Wildlife
WHA	Wildlife Habitat Assessment

Acronyms and Abbreviations

1. Introduction

On behalf of Washington State Parks and Recreation Commission (WSPRC), AECOM conducted a Wildlife Habitat Assessment (WHA) at Westport Light State Park (WLSP or "the state park"). The area is located immediately west of the community of Westport on the Westport peninsula in Grays Harbor County, Washington (Appendix A – Figure 1). AECOM has previously conducted vegetation surveys at the park (AECOM 2017) and was contracted to perform a variety of environmental studies within the park boundaries in 2021 (AECOM 2021a, 2021b). This report summarizes the WHA conducted by AECOM to quantify habitat quality and function in order to establish an environmental baseline for the park. The park encompasses approximately 560 acres and includes a variety of wildlife habitats.

AECOM biologists visited the state park on May 12-13, 2021, to identify/document wildlife habitats and to determine the potential presence or absence of special status wildlife species. In the context of this report, special status wildlife species include species protected or managed under the Endangered Species Act (ESA), the Bald and Golden Eagle Protection Act (BGEPA), the Migratory Bird Treaty Act (MBTA), and those species listed on the Washington Department of Fish and Wildlife (WDFW) State Threatened and Endangered List or the WDFW Priority Habitats and Species (PHS) List.

This WHA includes an office-based research phase and a field verification and data collection phase. This assessment documents background research to identify the potential presence, distribution, and abundance of special status wildlife species within or adjacent to the state park; survey methodology; and results for wildlife habitat types/plant communities and general and special status wildlife species observed during field visits.

2. Methods

This section describes the methods used for this investigation, which include defining the study area, conducting background research through desktop review, and conducting field surveys of the study area.

2.1 Study Area

To ensure that wildlife species and habitats were adequately evaluated during survey efforts, the entire 560-acre park was surveyed. The survey did not include an assessment of the beach/shoreline habitats that are included in the adjacent Seashore Conservation Area (Appendix A – Figure 1).

2.2 Background Research

Background research for this assessment entailed a desktop review of available literature, maps, and other resources provided by federal, state, and local agencies, in addition to previous reports and surveys conducted at the site. The review of background documents provided information to aide field investigations by identifying potential survey routes and areas for detailed assessment.

The following online documents were reviewed for identification and determination of wildlife habitats and animal species near/within the study area:

- Aerial photographs publicly available via the internet (Google Earth, Bing Maps)
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) Resource Lists (USFWS 2021)
- WDFW Priority Habitats and Species on the Web (WDFW 2021a)
- WDFW SalmonScape (WDFW 2021b)
- WDFW Threatened and Endangered Species List (WDFW 2020)
- Northwest Indian Fisheries Commission, Statewide Washington Integrated Fish Distribution (SWIFD) (NWIFC 2021)
- National Marine Fisheries Service (NMFS), Protected Resources App (NMFS 2021)
- Previous reporting/surveys conducted at the park (AECOM 2017)

Prior to field work, wildlife habitat types were mapped as geographic information system (GIS) polygons, based on evaluation of aerial imagery and previous reporting. Wildlife survey data, including mapped habitat types, were formatted to conform to WSPRC GIS data standards.

Wildlife habitat types (group of vegetation cover types based on a similarity of wildlife use) were interpreted from apparent vegetation signatures (e.g., shape, tone/color, pattern) in aerial imagery, as well as topographic contour data. Typical wildlife habitat types for the environments present at the park were assigned based on Johnson and O'Neil (2001). The initial polygons developed during the desktop analysis were printed onto field maps for ground-truthing and refinement during the field surveys described in Section 2.3.

2.3 Field Surveys

Wildlife habitat field surveys occurred from May 12-13, 2021, and were timed to maximize the likelihood of detecting important habitat features and/or presence of special status wildlife species within the park. The survey period coincides with the period when migratory birds may use the area for breeding. Surveys consisted of walkthrough surveys, habitat analyses, avian point count surveys, and seabird surveys conducted while in the field.

2.3.1 Walkthrough Surveys

Walkthrough surveys consisted of pedestrian area searches, where biologists traversed WLSP and documented major habitat types and features (Appendix B – Photolog) while looking for special status species evidence. For this assessment habitat features and elements were identified as components in the environment believed to most influence wildlife species' distribution, abundance, fitness, and viability.

When a biologist encountered habitat with a high potential for the occurrence of special status species (as identified during the pre-field desktop analysis or on the ground during surveys), an intensive visual examination for the species was conducted. Species presence was confirmed by sightings, calls, tracks, scat, nests, burrows, feathers, or feeding signs.

Special status wildlife activity centers (e.g., a nest or den) encountered during surveys were hand-drawn on field maps at the time of observation.

Walkthrough surveys were also used to validate the initial polygons of wildlife habitats. Field validation included hand-drawn edits on field maps and occasional global positioning system (GPS) survey points to document the representative edges of communities within the study area. These hand-drawn polygons and GPS points were then digitized using GIS software after field surveys and used to update the polygons drafted during pre-field background research.

2.3.2 Habitat Analyses

A WHA methodology was used to document and rank existing conditions and identify potential opportunities for habitat improvement (City of Portland 1986) (Appendix C – Wildlife Habitat Assessment Forms). The WHA rating system provides a framework for assessing wildlife habitat quality and function based on wildlife habitat requirements in terms of habitat size, species diversity, seasonality of food, water, and cover. The WHA also considers the degree of physical and human disturbance at the site and other unique features such as rarity of habitat, flora, and educational potential. The WHA system assigns relative ranks of high, medium, or low. Fish and stream habitat were evaluated based on Washington State Department of Natural Resources stream typing, aquatic species presence, connectivity, and riparian buffers.

2.3.3 Avian Point Counts

Point count surveys are a common way to monitor bird populations and develop an avian species assemblage for a given location. Point count surveys used in this investigation generally followed the protocols outlined in Huff et al. (2000). Point count surveys are conducted at fixed locations for a given length of time, where all bird species encountered (heard/seen) are recorded (Appendix D – Point Count Field Data). They establish a baseline inventory of bird demographics, which may be useful for future monitoring and research. Twelve point count stations were placed throughout the park, with locations selected based on the available habitat types in the park, as well as the spatial distribution of the points within WLSP. General point count locations are shown on Figure 1 (Appendix A).

Point counts were conducted starting at sunrise and were completed before 10:00 a.m., roughly 3 to 5 hours after the dawn chorus (a daily peak in bird singing activity, usually occurring around sunrise). Point counts were conducted on days that were generally calm and warm enough for bird activity. Excessive wind and/or rain can inhibit bird activity and can also make detecting birds difficult. Point counts at each station lasted 10 minutes, and every bird detected during this period was recorded. To limit the size of the survey area, only birds observed within 50 meters of the survey location were included in the point count results. During point counts, the number and sex of each bird detected, the time of detection, and the approximate location of detection within the point count area were recorded for each bird (see Appendix D for details).

2.3.4 Seabird Survey

The majority of point count stations were located inland, and those on the shoreline had mostly obscured views of marine habitats. While marine environments were not analyzed or addressed in this habitat assessment, this precluded a comprehensive sampling of the bird assemblage on the water immediately adjacent to WLSP. To more accurately capture avian use of the park and adjacent areas, a separate survey was conducted, generally following the Seattle Audubon Society's Puget Sound Seabird Survey "In-The-Field Protocol Checklist" (Seattle Audubon Society 2020).

Seabird surveys were conducted northwest of WLSP in a public beach area (Appendix A – Figure 1). The seabird survey lasted 15 minutes. During this time, the number, species, and sex (if possible to determine) of all birds observed was recorded. Biologists worked in pairs when conducting these surveys, using binoculars with a magnification of 8X/10X and 20-60X spotting scopes to aid in identification. An approximately 400-meter-radius area was used to sample birds. Birds were only included in the survey if they were within a 400-meter radius of the survey location and were actually swimming on the water's surface or were present on the shore (although fly-overs were recorded with an associated comment).

3. Results

3.1 Environmental Setting

The climate of WLSP typically experiences little in the way of extremes and is uniformly wet and mild. Precipitation averages 2,000-3,000 millimeters along the Washington and Oregon coast. Most precipitation falls during the fall and winter months, although the frequent fog and low clouds experienced during the relatively drier summer months are probably equally as important for plant species (Franklin and Dyrness 1973).

While no streams or major water features are mapped within the study area by SalmonScape or SWIFD (WDFW 2021b; NWIFC 2021), the study area is adjacent to the Pacific Ocean (although the study area does not include the beach and nearshore environments near the park). Multiple wetlands are mapped throughout the study area by Grays Harbor Count Mapping (Grays Harbor 2021), and many of these were confirmed during delineations within the park by AECOM wetland scientists (AECOM 2021a).

3.2 Wildlife Habitat Types

A combination of desktop analysis of aerial imagery, review of previous survey efforts, and ground truthing during surveys was used to develop GIS polygons that describe available wildlife habitat within WLSP. Wildlife habitat types were classified using Johnson and O'Neil (2001) wildlife-habitat relationships which were modified to fit the site-specific physical setting, landscape setting, structure, composition, and system dynamics of WLSP.

The dominant wildlife habitat types and features within WLSP are shown in Figure 1 in Appendix A and summarized in Table 1, with detailed descriptions provided in Sections 3.2.1 through 3.2.8. Representative photos are provided in Appendix B for most habitat types.

A general description of each wildlife habitat's rating summary, based on the WHA methodology (City of Portland 1986), is included below. Data sheets are included in Appendix C, and a summary table of habitat scores is included in Table 2. Scores listed in the habitat descriptions are an average of the scores for all analysis points within each habitat type.

Wildlife Habitat Type	Approximate Acres in Study Area	Approximate Percent of Study Area
Mixed Conifer Forest	251.97	45.12
Mixed Open Wet Areas	121.00	21.67
Coastal Shrublands	56.18	10.06
Riparian Shrub Areas	50.72	9.08
Mixed Deciduous Forest	32.13	5.75
Disturbed Open Grasslands	30.24	5.42
Developed	14.05	2.52
Special Habitat Features	3.59	0.64
Total	~560	~100

Table 1. Wildlife Habitat Types and Features in Westport Light State Park

Wildlife Habitat Type	Average Habitat Scoring	Habitat Rating
Mixed Conifer Forest	64	Medium-High
Mixed Open Wet Areas	73	High
Coastal Shrublands	36	Low
Riparian Shrub Areas	60	Medium
Mixed Deciduous Forest	78	High
Disturbed Open Grasslands	36	Low
Developed	Not Scored	N/A
Special Habitat Features	Not Scored	N/A

Table 2. Habitat Rating Scores for Wildlife Habitats Identified in Westport Light State Park

3.2.1 Mixed Conifer Forest

This habitat type is predominantly located at the southern and eastern portions of the park, although small patches of shore pine (*Pinus contorta* var. contorta)/Douglas-fir (*Pseudotsuga menziesii*) forest are also present at the northern portion of the park between cleared areas (Appendix A – Figure 1).

This forested habitat type includes both wetland and upland habitats. Previous vegetation surveys conducted at the state park identified both shore pine wetland forest and shore pine/Douglas-fir upland vegetation communities throughout the northern portion of the park (AECOM 2017). The patches of wetland forest were included with the larger shore pine/Douglas-fir forest, as they offer similar habitat conditions and wildlife associations. However, the wetland forest portions of this habitat type may provide additional habitat for amphibians, forage for insectivorous birds, and resources for other wildlife species beyond what the upland portions provide.

The habitat type is dominated by shore pine and slough sedge (*Carex obnupta*) (Appendix B – Photo 1). Evergreen huckleberry (*Vaccinium ovatum*), sword fern (*Polystichum munitum*), Pacific crabapple (*Malus fusca*), and Pacific bayberry (*Morella californica*) are also present to smaller degrees throughout the habitat. Douglas-fir is generally present as inclusions within the overall habitat type, growing throughout the forest in upland patches. Hooker's willow (*Salix hookeriana*) stands are scattered throughout the forest in openings in the canopy.

In general, the forests at the site are young, and the trees do not exhibit the traits of old growth forests. However, early successional stands have been found to be used by many forestdependent wildlife species. For example, moderately open multi-story canopied forests composed of medium-sized trees in western Oregon and Washington provide habitat for over 28 species of amphibian, 9 reptiles, 101 bird species, and 60 mammal species (Johnson and O'Neil 2001). Within these forests, several habitat features stand out as important, including logs, snags, live trees, and cavities (Johnson and O'Neil 2001). While snags were not observed to be abundant at WLSP, these other features were, indicating that WLSP supports complex forests that likely provide a diversity of habitat features for wildlife.

Wildlife Habitat Rating Summary

This habitat was rated at survey points HA/PC04 and HA/PC05.

Rating	Rationale
Medium	Scattered seasonally saturated wetlands and ephemeral drainages
High	Proximity to cover, variety, and quantity increases this score
High	Tree canopy with mix of medium sized shrubs and patches of tall grasses
High	Low disturbance and limited recreation increase this rating
High	Large contiguous patches
Low	Shore pine forest is common for the park and the vicinity
	Medium High High High High

Overall Score Medium-High Score: 64. Scores for the park ranged from 36-78.

Wildlife Observed

Common wildlife species observed in that habitat type included black-capped chickadees (*Poecile atricapillus*), black headed grosbeak (*Pheucticus melanocephalus*), and black-throated grey warblers (*Setophaga nigrescens*), among others. Coyote (*Canis latrans*) scat and black bear (*Ursus americanus*) scat were also observed throughout this habitat type.

3.2.2 Mixed Open Wet Areas

This habitat type is mostly located in the north and west portions of the park (Appendix A – Figure 1). It is strongly associated with the linear forest clearings likely created when this part of the park was cleared for creation of a golf course (AECOM 2017).

This habitat type was delineated from both the mixed conifer forest and riparian shrub habitat types due to its complex assortment of different habitat types (Appendix B – Photo 2). Portions of this habitat contain large amounts of emergent cover, where shrubs like Hooker's willow and forest communities are absent. Herbaceous species such as dune rush (*Juncus nevadensis* var. *inventus*), Brewer's rush (*Juncus breweri*), and Alaskan sickle-leaved rush (*Juncus falcatus* var. *sitchensis*) are present in wetland depressions; seashore bentgrass (*Agrostis pallens*), sand sedge (*Carex pansa*), sandmat (*Cardionema ramosissima*), and European beachgrass (*Ammophila arenaria* ssp. *arenaria*) are present in uplands.

Scattered throughout these generally open areas are dense stands of willow, small shrub-like growth forms of shore pine, and Scotch broom (*Cytisus scoparius*). At the eastern end of this habitat mapping, the stands of willow become more expansive, and the shore pine becomes more forest like. This is likely a result of natural succession, where the shore pine forest and wetland communities have begun to reclaim areas that were cleared during development of the golf course fairways.

Wildlife Habitat Rating Summary

This habitat was rated at survey points HA/PC09, HA/PC10, and HA/PC12.

Habitat Component	Rating	Rationale
Water	Medium	Several scattered small semi-permanently inundated areas
Food	High	Proximity to cover, variety, seasonality, and quantity increases this score
Cover	High	Mix of cover types increases this score
Disturbance	High	Low disturbance and limited recreation increase this rating
Interspersion	High	Habitat weaves through larger patches of willow scrub-shrub, pine, and alder forest stands.
Uniqueness	Medium	These areas were remnant wetlands that were disturbed from initial golf course development and are common for the park but rare in the vicinity.
Overall Score	High	Score: 73. Scores for the park ranged from 36-78.

Wildlife Observed

Wildlife species observed in this habitat type included killdeer (*Charadrius vociferus*), olive-sided flycatchers (*Contopus cooperi*), Pacific-slope flycatchers (*Empidonax difficilis*), rufous hummingbirds (*Selasphorus rufus*), and violet-green swallows (*Tachycineta thalassina*), among others. Black-tailed deer (*Odocoileus hemionus columbianus*) were also observed in this habitat type, although they were most commonly observed near the fore-dune at the west end of the park. Northwestern gartersnakes (*Thamnophis ordinoides*) were also observed throughout this habitat, particularly at the abandoned building foundation (Appendix A – Figure 1).

3.2.3 Coastal Shrublands

This habitat type is primarily located along the large fore-dunes at the west and north ends of the park (Appendix A – Figure 1). It is immediately adjacent to the paved walking path that traverses the western boundary along the top of the western fore-dune. The fore-dunes continue beyond the study area and quickly transition to nearshore sandy beach habitat.

These shrub habitats are primarily dominated by Scotch broom and evergreen huckleberry with scattered dwarf shore pine, trailing blackberry (*Rubus ursinus*), and Pacific crabapple present. Grass species present in this habitat type include European beachgrass and American dunegrass (*Leymus mollis* ssp. *mollis*) (Appendix B – Photo 3). These shrublands can form dense walls of nearly impenetrable shrubs along the paved walking path at the western end of the park, although established social/game trails do occasionally bisect these areas.

Dune and beach environments in the Pacific Northwest play an important role for shorebirds. For instance, beaches adjacent to Grays Harbor support some of the highest densities of migrating sanderlings (*Calidris alba*) in North America and also provide roosting habitat for a large number of shorebirds when other habitats (e.g., mudflats) become inundated at high tide. Additionally, beaches in southwest Washington can support as many as 618.7 overwintering dunlins (*Calidris alpina*) per square kilometer (Johnson and O'Neil 2001). Coastal headlands may also provide unique and rare nesting habitat in Washington state; many bluffs in Washington are fronted by cobblestone beaches. In areas with enough soil, evergreen shrubs and dune grasses can grow and in turn stabilize the soil enough for burrowing animals and birds to capitalize on the dunes themselves (Johnson and O'Neil 2001).

Wildlife Habitat Rating Summary

This habitat was rated at survey points HA/PC01, HA/PC07 and HA/PC08.

Habitat Component	Rating	Rationale
Water	Low	These areas are dry but near the Pacific Ocean
Food	Medium	Quantity and seasonality; proximity to cover increases this score; variety is low
Cover	Low-Medium	Cover is limited low shrubs and rolling dunes.
Disturbance	Low	Paved recreation trail fragments this habitat, and human disturbance lowers rating
Interspersion	Medium	Limited interspersion habitat
Uniqueness	Medium	Potential for restoration but limited by recreation

Overall Score Low

Score: 36. Scores for the park ranged from 36-78.

Wildlife Observed

Few wildlife species were specifically observed here, although the species found in this habitat were often not observed elsewhere. Black-tailed deer were most commonly observed in this habitat type. Bird species closely associated with this habitat type were common yellowthroats (*Geothlypis trichas*), white-crowned sparrows (*Zonotrichia leucophrys*), and spotted towhees (*Pipilo maculatus*).

3.2.4 Riparian Shrub Areas

This habitat is primarily located in the southwestern portion of the park, where Hooker's willow is the dominant species, with scattered amounts of shore pine present to a lesser degree (Appendix A – Figure 1). This habitat type is also present as small inclusions within the shore pine/Douglas-fir/evergreen huckleberry forest type, where breaks in the forest canopy are dominated by Hooker's willow. However, the mapping of this habitat type at the southern end of the park is distinct from these smaller patches within other habitats due to its size relative to similar patches within the park. Use of the term 'riparian' to identify these shrub areas is based on the ponded nature of the habitat and proximity to the marine environment as there are no streams present.

This habitat is dominated by Hooker's willow, although shrub-sized shore pine may be mixed within the willow patches (Appendix B – Photo 4). Larger shore pine is also present around the periphery of this habitat type. Slough sedge, Douglas spiraea (*Spiraea douglasii* var. *douglasii*), and black twinberry (*Lonicera involucrata* ssp. *involucrata*) are present in this habitat type (AECOM 2017).

Wetland and riparian habitats in Oregon and Washington play a large role in providing habitat to wildlife species in the region. For instance, roughly 72 percent of the bird species in Oregon and Washington use wetland/riparian habitats, increasing to 82 percent if coastal and marine birds

are not included (Johnson and O'Neil 2001). Additionally, 77 percent of the region's bird species breed in wetland/riparian habitats. Consequently, wetland habitats within WLSP, especially those with a complicated canopy structure including willow and shore pine, are of immense value to wildlife.

Wildlife Habitat Rating Summary

This habitat was rated at survey points HA/PC02 and HA/PC03.

Habitat Component	Rating	Rationale
Water	Medium	Seasonally inundated and saturated wetlands
Food	High	Proximity to cover, variety, and quantity increases this score
Cover	Medium	Mix of tall and low-stature shrubs
Disturbance	Medium	Moderate-sized patch in interior with intact vegetated buffer away from recreation
Interspersion	Medium	Patches mixed with shore pine forested areas
Uniqueness	High	Hooker's willow is common for the park but provides high quality bird habitat

Overall Score Medium Score: 60. Scores for the park ranged from 36-78.

Wildlife Observed

Bird species observed in this habitat type included Anna's hummingbirds (*Calypte anna*), black-capped chickadees, hermit warblers (*Setophaga occidentalis*), and orange-crowned warblers (*Leiothlypis celata*). While deer were not directly observed in this habitat type, deer scat was observed.

3.2.5 Mixed Deciduous Forest

This habitat type is located at the eastern end of the state park, along the eastern boundary and North Forrest Street (Appendix A – Figure 1).

This habitat type is dominated by red alder (*Alnus rubra*), salmonberry (*Rubus spectabilis*), and evergreen huckleberry (Appendix B – Photo 5). Sword fern and slough sedge are present in the understory. This habitat type is present in both discrete patches where red alder is the only tree species present (predominantly at the southern extent of the mapping), and in combination with species like shore pine and Douglas-fir, where it forms a matrix with the shore pine/Douglas-fir/evergreen huckleberry forest habitat type (predominantly at the northern end of the mapping).

Hardwood trees and shrubs are one of the most important factors influencing bird community composition in the Pacific Northwest (Johnson and O'Neil 2001). Abundance and diversity of bird species in the region has been correlated with the abundance and distribution of hardwoods. Additionally, unique associations between bird species and either deciduous and/or coniferous trees develop where deciduous and coniferous trees are adjacent to one another (Johnson and O'Neil 2001). Consequently, the forested areas of WLSP that are at least partially composed of deciduous trees/shrubs may be of increased value for wildlife.

Wildlife Habitat Rating Summary

This habitat was rated at survey points HA/PC06 and HA/PC11.

Habitat Component	Rating	Rationale
Water	Medium	Scattered seasonally saturated wetlands and ephemeral drainages
Food	High	Proximity to cover, variety, seasonality, and quantity increases this score
Cover	High	Tree overstory with tall understory of shrubs and patches of grasses
Disturbance	High	Low disturbance and limited recreation increase this rating
Interspersion	High	Interspersed with shore pine forest
Uniqueness	Medium	Alder forest is uncommon for the park but common in the vicinity
Overall Score	High	Score: 78. Scores for the park ranged from 36-78.

Wildlife Observed

Wildlife observed in this habitat type was limited to avian species. These included chestnutbacked chickadees (*Poecile rufescens*), dark-eyed juncos (*Junco hyemalis*), Pacific wrens (*Troglodytes pacificus*), and spotted towhees, among others.

3.2.6 Open Disturbed Grasslands

This habitat type was observed throughout the non-forested uplands of the northwest end of WLSP (Appendix A – Figure 1). This habitat's distribution is, at least partially, a result of the intensive clearing that historically occurred in association with an attempt to develop a golf course at the park.

Dominant species in this habitat type are European beachgrass, Scotch broom, and shore pine (Appendix B – Photo 6). The habitat type is dominated by non-native grass and shrub species, although some bare ground/sand is present throughout these portions of the park. Where European beachgrass is present, little else is present, and bare ground is scarce. Shore pine in this habitat type is generally shrub sized and offers little in the way of vertical habitat structure.

Wildlife Habitat Rating Summary

This habitat was rated at survey point HA13.

Habitat Component	Rating	Rationale
Water	Low	These areas are dry but near the Pacific Ocean
Food	Medium	Quantity and seasonality; proximity to cover increases this score; variety is low
Cover	Low-Medium	Cover is limited to low shrubs and rolling dunes
Disturbance	Low	Proximity to the parking area and human disturbance lowers rating
Interspersion	Medium	Limited interspersion habitat
Uniqueness	Medium	Potential for restoration but limited by proximity to recreation
Overall Score	Low	Score: 36. Scores for the park ranged from 36-78.

Wildlife Observed

Fewer wildlife species were observed in this habitat type than in others, but two bird species were found only here: golden-crowned sparrows (*Zonotrichia atricapilla*) and savannah sparrows (*Passerculus sandwichensis*).

3.2.7 Developed

Developed habitats were classified as those areas that were paved (roads/parking areas) or were graveled for car travel (primitive roads). While some species may use these environments' features (e.g., reptiles may use paved roads to bask, mammals may burrow into road shoulders, and some bird species may forage on road kill), developed landscapes are generally considered degraded. Developed environments primarily provide wildlife habitat only for a few generalist species that are able to adapt to these highly altered landscapes.

Developed habitats within WLSP are largely represented by paved roads and walkways and represent a relatively small component of the study area. Consequently, while wildlife was observed near developed areas, their presence is recorded in association with the adjacent habitat type they were observed in.

3.2.8 Special Habitat Features

Special features may play a prominent role in the ecology of wildlife species, as many species are dependent on these features to continue to inhabit a given area.

3.2.8.1 Ponded Areas

Two ponded areas are present at the northwestern portion of the park, which are the result of excavation occurring during the initial development of a golf course (that was not completed) in the area prior to Washington State Parks acquiring the property (AppendixA – Figure 1). These two excavated areas (1.47 acres total) filled with water and were presumably developed to create golf hazards (AECOM 2017) but now provide unique habitat features within WLSP.

During surveys to the park, several species of shorebird, gull, and waterfowl were observed using these ponds either for foraging (e.g., spotted sandpiper [*Actitis macularius*]), bathing (e.g.,

gulls [*Larus* spp.]) or for nesting/raising young (e.g., mallard [*Anas platyrhynchos*]). As discussed above, riparian and wetland habitats (including areas surrounding standing water) are disproportionately productive for a variety of wildlife taxa (Johnson and O'Neil 2001). As perennial water features are otherwise absent from WLSP, it is likely that these ponded areas now provide important habitat features for these species, despite their artificial origin.

3.2.8.2 Beach

Beach habitats were not directly surveyed for wildlife during these surveys, as this was out of scope for the WHA. However, a small portion of beach habitat is within the mapped boundary of WLSP (Appendix A – Figure 1). This small portion of beach within the state park may provide habitat for a variety of shorebirds, including federally protected species like the western snowy plover (*Charadrius nivosus nivosus*), and is consequently delineated from aerial imagery (Appendix A – Figure 1). While beach habitats were not directly surveyed/assessed for habitat quality, a seabird survey was conducted at a public beach site adjacent to WLSP to ensure a comprehensive sampling of birds at WLSP.

3.3 Wildlife Observed During Field Visits

This section provides a comprehensive list of wildlife observations during field surveys (walkthrough and point count surveys combined). A list of additional species that were not observed during surveys, but which may occur in WLSP, are included in Appendix F.

3.3.1 Bird Species

Fifty bird species were observed during field surveys (Table 3). While some birds were observed in multiple habitat types within WLSP, the highest diversity of birds was observed in the riparian shrub areas habitat type. Many of the observed bird species were also found in the mixed conifer forest habitat type. The lowest bird diversity was observed in the open disturbed grassland habitat type. Table 3 notes which bird species observed have special species status. Non-native species were not observed.

Common Name	Scientific Name	Habitat Associations in WLSP	Status
American Crow	Corvus brachyrhynchos	Coastal Shrubland; Mixed Conifer Forest; Mixed Open Wet Areas	
American Goldfinch	Spinus tristis	Mixed Open Wet Areas	
American Robin	Turdus migratorius	Coastal Shrubland; Riparian Shrub Areas; Mixed Open Wet Areas	
Anna's Hummingbird	Calypte anna	Riparian Shrub Areas; Mixed Deciduous Forest; Mixed Open Wet Areas	
Bald Eagle	Haliaeetus leucocephalus	Flyover	BGEPA
Barn Swallow	Hirundo rustica	Mixed Open Wet Areas	

Common Name	Scientific Name	Habitat Associations in WLSP	Status
Black-capped Chickadee	Poecile atricapillus	Riparian Shrub Areas; Mixed Conifer Forest; Mixed Deciduous Forest; Mixed Open Wet Areas	
Black-headed Grosbeak	Pheucticus melanocephalus	Mixed Conifer Forest	
Black-throated Grey Warbler	Setophaga nigrescens	Mixed Conifer Forest	
Brown-headed Cowbird	Molothrus ater	Coastal Shrubland; Riparian Shrub Areas; Mixed Conifer Forest; Mixed Deciduous Forest; Mixed Open Wet Areas	
Bushtit	Psaltriparus minimus	Mixed Conifer Forest	
Chestnut-backed Chickadee	Poecile rufescens	Red Alder/Slough Sedge Flooded Forest; Mixed Open Wet Areas	
Common Loon	Gavia immer	Flyover	State Sensitive
Common Yellowthroat	Geothlypis trichas	Coastal Shrubland	
Dark-eyed Junco	Junco hyemalis	Mixed Conifer Forest; Mixed Deciduous Forest; Mixed Open Wet Areas	
Double-crested Cormorant	Nannopterum auritum	Seabird Survey	
Dunlin	Calidris alpina	Seabird Survey	
Glaucous Winged Gull	Larus glaucescens	Mixed Open Wet Areas	
Golden-crowned Kinglet	Regulus satrapa	Mixed Conifer Forest	
Golden-crowned Sparrow	Zonotrichia atricapilla	Disturbed Open Grasslands	
Hermit Warbler	Setophaga occidentalis	Riparian Shrub Areas	
House Finch	Haemorhous mexicanus	Riparian Shrub Areas	
Killdeer	Charadrius vociferus	Mixed Open Wet Areas	
Mallard	Anas platyrhynchos	Mixed Open Wet Areas	
Marsh Wren	Cistothorus palustris	Coastal Shrubland	
Northern Flicker	Colaptes auratus	Mixed Conifer Forest	
Olive-sided Flycatcher	Contopus cooperi	Mixed Open Wet Areas	BCC
Orange-crowned Warbler	Leiothlypis celata	Riparian Shrub Areas; Mixed Conifer Forest	

Common Name	Scientific Name	Habitat Associations in WLSP	Status
Osprey	Pandion haliaetus	Flyover	
Pacific Wren	Troglodytes pacificus	Mixed Deciduous Forest	
Pacific-slope Flycatcher	Empidonax difficilis	Mixed Open Wet Areas	
Purple Finch	Haemorhous purpureus	Riparian Shrub Areas; Mixed Conifer Forest	
Red-winged Blackbird	Agelaius phoeniceus	Coastal Shrubland	
Rufous Hummingbird	Selasphorus rufus	Mixed Open Wet Areas	BCC
Sanderling	Calidris alba	Seabird Survey	
Savannah Sparrow	Passerculus sandwichensis	Disturbed Open Grasslands	
Short-billed Gull	Larus brachyrhynchus	Mixed Open Wet Areas	
Song Sparrow	Melospiza melodia	Coastal Shrubland; Mixed Deciduous Forest; Mixed Open Wet Areas	
Spotted Sandpiper	Actitis macularius	Mixed Open Wet Areas	
Spotted Towhee	Pipilo maculatus	Coastal Shrubland; Riparian Shrub Areas; Mixed Conifer Forest; Mixed Deciduous Forest; Mixed Open Wet Areas	
Steller's Jay	Cyanocitta stelleri	Mixed Conifer Forest	
Turkey Vulture	Cathartes aura	Flyover	
Violet-green Swallow	Tachycineta thalassina	Mixed Open Wet Areas	
Warbling Vireo	Vireo gilvus	Riparian Shrub Areas	
Western Gull	Larus occidentalis	Mixed Open Wet Areas	
Western Wood-pewee	Contopus sordidulus	Mixed Open Wet Areas	
Whimbrel	Numenius phaeopus	Flyover	BCC
White-crowned Sparrow	Zonotrichia leucophrys	Coastal Shrubland; Mixed Open Wet Areas	
Wilson's Snipe	Gallinago delicata	Mixed Open Wet Areas	
Yellow Warbler	Setophaga petechia	Riparian Shrub Areas; Mixed Conifer Forest	

Key: BCC = USFWS Birds of Conservation Concern; BGEPA = Bald and Golden Eagle Protection Act

While this is a complete list of the species that were observed during surveys, it does not represent the entire bird species diversity of the area. For instance, birds like mourning doves (*Zenaida macroura*) occur throughout Washington but were not observed during surveys. The list can be considered a good snapshot of spring bird use.

3.3.2 Other Wildlife

While bird species were the most common form of wildlife encountered during surveys at WLSP, several other species were either directly (observation of the animal itself) or indirectly (scat, tracks, etc.) encountered during the visits. As with bird species, many other wildlife species may be present in WLSP that were not observed during surveys. Non-avian wildlife species observed during surveys are included in Table 4.

Table 4. Non-Avian Wildlife Species Observed in Westport Light State Park

Common Name	Scientific Name	Habitat Associations in WLSP	Status		
Reptiles	Reptiles				
Northwestern Gartersnake	Thamnophis ordinoides	Mixed Open Wet Areas			
Mammals					
Coyote	Canis latrans	Throughoutmosthabitats			
Black-tailed Deer	Odocoileus hemionus columbianus	Throughout most habitats			
Black Bear	Ursus americanus	In conifer forest habitats			

3.3.2.1 Mammals

A variety of mammal species are likely present at WLSP, as over 40 species have been documented or are likely to occur in the nearby Willapa Bay National Wildlife (USFWS 2011). For instance, habitat generalists like deer mice (*Peromyscus maniculatus*) and raccoon (*Procyon lotor*) are documented within the refuge and are likely present throughout WLSP despite not being observed during the 2021 surveys. A variety of small mammals may also be present in the park that were not observed during surveys, like chipmunks (*Tamias townsendii*) and bats (*Myotis* spp.) (USFWS 2011), as these species can be difficult to detect due to a secretive or nocturnal nature.

During surveys, coyote scat was observed throughout the park, and black bear scat was observed in the forested areas of the park. Black-tailed deer were commonly observed throughout the park, particularly in the coastal shrub areas (Appendix B – Photo 7).

3.3.2.2 Reptiles and Amphibians

Few reptile species are known to occur in western Washington coastal habitats, as compared to the abundance of reptiles found on the drier, east side of the state. However, the wet habitats found on the west side may provide habitat for a diversity of amphibian species. Fourteen species of amphibian and two reptiles species are documented, or are likely to occur, in the Willapa Bay National Refuge area (USFWS 2011). Gartersnakes (*Thamnophis* sp.) are common in habitats west of the Cascade Mountains, as are a diversity of frog and salamander species. Nine salamander species and five species of frog/toad can be found in the Willapa National Wildlife Refuge area (USFWS 2011) and may also occur within WLSP.

Northwestern gartersnakes were observed in high densities near an abandoned concrete building foundation within the park (Appendix A – Figure 1; Appendix B – Photo 8). Silt fence material has been stockpiled here and apparently provides habitat for numerous snakes; over

15 snakes were found under artificial cover in a short period of searching (10-15 minutes). No amphibians were observed during surveys, although wetland scientists conducting a delineation at the site roughly a month earlier reportedly found numerous tadpoles in the ponded areas of the park (many of which had dried by the time this assessment was conducted). The majority of these are likely Pacific treefrog (*Pseudacris regilla*) tadpoles, which are common throughout western Washington.

3.4 Special Status Fish and Wildlife Species

An evaluation was conducted for the potential presence or absence of habitat for special status wildlife species. This includes federal ESA-listed species (Appendix E – USFWS Species List), those species included in the WDFW Threatened and Endangered species list, and those species included in the WDFW PHS list that were mapped or observed within WLSP during surveys. Only wildlife species that have potential to occupy terrestrial habitats within the park are addressed in this section, as no streams or nearshore habitats are present in the surveyed areas.

Seven ESA-listed species (Table 5) were indicated as potentially present in the park by the USFWS IPaC tool (USFWS 2021). Two of these species may have suitable habitat in or adjacent to the park. No special status species under the jurisdiction of NMFS were identified as present in the park (NMFS 2021). A USFWS Species List is included in Appendix E.

Species included on the WDFW PHS list that may have potential to occur in WLSP were identified by referencing the WDFW PHS Mapper (WDFW 2021a). According to the WDFW PHS Mapper report generated for WLSP, several state-listed threatened, endangered, and/or candidate species were indicated as potentially present (Table 5).

Species Common Name			
Scientific Name	Status	Species Suitable Habitat	Potential to Occur in WLSP
Insects	-		
Oregon Silverspot Butterfly Speyeria zerene hippolyta	USFWS Threatened WDFW Endangered	Suitable habitat includes coastal meadows and grasslands with hookedspur violet (<i>Viola adunca</i>).	Occurrence is mapped by USFWS IPaC Potential to occur in the park, although remote
Fish		-	
Bull Trout Salvelinus confluentus	USFWS Threatened WDFW Candidate	Prefers pristine cold-water streams, clean gravel substrates, complex and diverse instream cover, stable stream channels	Occurrence is mapped by USFWS IPaC Not expected to occur in WLSP
Birds			
Brown Pelican Pelecanus occidentalis	PHS listed due to vulnerable aggregations	The brown pelican occurrence is mapped just northeast of the state park, immediately to the north of the Westport Jetty.	Occurrence is mapped by PHS Not expected to occur in terrestrial habitats of WLSP

Table 5. Special Status Wildlife Species and Suitable Habitat in Westport Light State Park

Species Common Name			
Scientific Name	Status	Species Suitable Habitat	Potential to Occur in WLSP
Great Blue Heron (Breeding Area) <i>Ardea herodias</i>	PHS listed due to vulnerable aggregations	Heron rookeries are often located in mature forest stands of alder, cedar, hemlock, and/or Douglas-fir. The mapped rookery is roughly 0.5-mile to the SE of the state park.	Occurrence is mapped by PHS Not observed during surveys
Marbled Murrelet Brachyramphus marmoratus	USFWS Threatened WDFW Endangered	Forages in near-shore marine waters on fish and invertebrates. May nest up to 70 miles inland in mature, old growth forests.	Occurrence is mapped by USFWS IPaC Not expected to occur in terrestrial habitats of WLSP
Shorebird Concentration	PHS listed due to vulnerable aggregations	The shorebird concentration areas are mapped directly to the west of the park along the Westport Jetty and in the tidal areas to the east of Westport	Occurrence is mapped by PHS Observed during surveys
Short-tailed Albatross Phoebastria (=Diomedea) albatrus	USFWS Endangered WDFW Candidate	Breed on small islands in the north Pacific. Forage throughout the Pacific, and sub- adults may occur in the eastern pacific along the Washington coast.	Occurrence is mapped by USFWS IPaC Not expected to occur in terrestrial habitats of WLSP
Streaked Horned Lark Eremophila alpestris strigata	USFWS Threatened WDFW Endangered	Habitat consists of large areas of barren or sparsely vegetated areas in the Puget Trough, along coastlines, or seasonal wetlands.	Occurrence is mapped by USFWS IPaC Not expected to occur within WLSP
Western Snowy Plover <i>Charadrius</i> <i>nivosus nivosus</i>	USFWS Threatened WDFW Endangered	In Washington, found above high tideline on coastal beaches and dunes. Found in Grays Harbor County.	Occurrence is mapped by USFWS IPaC. An additional occurrence is mapped roughly 0.5 -mile east of the park by PHS. This species has the potential to occur in the beach areas adjacent to the state park. Nest sites have been observed on the Ocean Shores Peninsula, and just east of Westport (WDFW 2013). Critical Habitat is designated on the Ocean Shores Peninsula.
Yellow-billed Cuckoo Western DPS <i>Coccyzus</i> <i>americanus</i>	USFWS Threatened WDFW Endangered	Suitable habitat includes intact deciduous riparian areas. The bird is extremely rare in Washington, and no critical habitat occurs in the state.	Occurrence is mapped by USFWS IPaC Not expected to occur within WLSP

Source: WDFW 2020, 2021a; USFWS 2021

Key: DPS = distinct population segment; IPaC = Information for Planning and Consultation; PHS = Priority Habitats and Species; USFWS = U.S. Fish and Wildlife Service; WDFW = Washington State Department of Fish and Wildlife; WLSP = Westport Light State Park.

3.4.1 ESA-Listed Fish and Wildlife Species

Seven ESA-listed fish and wildlife species were listed as potentially present in WLSP by the USFWS IPaC Mapper (USFWS 2021). All of these species are either not expected or very unlikely to occur within the terrestrial habitats of WLSP. In addition, no critical habitat for these species occurs in WLSP.

3.4.1.1 Oregon Silverspot Butterfly

Oregon silverspot butterflies (*Speyeria zerene hippolyta*) are closely associated with the hookedspur violet (*Viola adunca*). Historical fire regimes helped maintain natural meadows that favored the species' preferred habitat. Current fire control methods, natural succession, and invasive plants have altered the species coastal habitats (WDFW 2013). While intensive recovery efforts are being implemented (e.g., captive breeding, habitat restoration), including at areas relatively close to the park (e.g., habitat restoration at John's River State Wildlife Area), the species is considered extirpated from the state. The population at Westport disappeared sometime prior to 1982 (WDFW 2013). Consequently, the species is not thought to currently occur at the state park, although the park itself may represent a unique habitat opportunity within the species historic range.

3.4.1.2 Fish Species

No listed fish species under NMFS jurisdiction were identified as potentially occurring at the park (NMFS 2021). Bull trout (*Salvelinus confluentus*) was identified as potentially occurring in the vicinity of the park (USFWS 2021). However, while this species does use nearshore marine areas (and has designated critical habitat in Grays Harbor) along the Washington coast, no streams are present within the park, and consequently, no habitat for listed fish species is present in the area.

3.4.1.3 Yellow-Billed Cuckoo

The yellow-billed cuckoo (*Coccyzus americanus*) is a small robin-sized bird that specializes in intact, large patches of deciduous riparian woodlands. The species was once considered common along the Columbia River in the late 1800s but no longer occurs in Washington state (WDFW 2013). They were observed nesting in the Puget Trough throughout the earlier 1900s, but the species was considered rare by the 30s and 40s, and the last documented nesting pair was observed in 1934. Observations in the state are extremely rare, with only 12 observations between 1950 and 2000 (WDFW 2013). Consequently, the species is not thought to occur in the park, and no critical habitat occurs in Washington state.

3.4.1.4 Marbled Murrelet

Marbled murrelets (*Brachyramphus marmoratus*) are small seabirds that forage in nearshore waters, including the nearshore waters of Washington. Nesting typically occurs in old growth forests up to 70 miles inland. Nesting substrates are typically large diameter branches or other suitable platforms in large, old trees. While the species may forage in the near-shore waters adjacent to the park, it is unlikely that the species would nest in the park. The shore pine dominated forested habitats do not exhibit the large platforms typically necessary for nesting.

3.4.1.5 Short-tailed Albatross

This species is not known to breed in Washington state. The short-tailed albatross (*Phoebastria* [=Diomedea] albatrus) breeding colonies are primarily found on small islands in the north

Pacific. The species forages throughout the Pacific and may occasionally occur in the open marine waters offshore from the state park. However, the species in unlikely to occur within the terrestrial habitats of the state park that were surveyed as a part of this assessment.

3.4.1.6 Streaked Horned Lark

Streaked horned larks (*Eremophila alpestris strigata*) preferentially select open habitats with low stature vegetation to nest, and these habitats are rare within the assessed portions of the state park. Dense vegetation and abundant invasive plants (e.g., Scotch broom) provide abundant cover, meaning areas of sparsely vegetated bare ground are rare. However, small amounts of bare, sandy areas are present in areas of the northwest corner of the park, which may provide limited habitat for streaked horned larks in the analysis area. Additionally, birds have been detected at John's River Island and Damon Point (WDFW 2013) and are occasionally found along beach habitats in coastal Washington state. Consequently, it is unlikely, albeit possible, that streaked horned larks may occur in WLSP.

3.4.1.7 Western Snowy Plover

This species has potential to occur in the beach habitats adjacent to the surveyed portions of the state park. The entire known breeding population in Washington state is thought to occur in beach habitats on Washington's outer shore near Willapa Bay and Grays Harbor. Since 2000, at least one nest has been found on the south peninsula at the entrance to Grays Harbor (the same peninsula that the state park is located on) (WDFW 2013). Additional nests have been found directly across the entrance to Grays Harbor on the Ocean Shores Peninsula, and critical habitat is located here as well (although not within the WLSP, or on the southern peninsula). Nests were also observed in 2020 and 2021 at Griffiths-Priday State Park, north of Ocean Shores.

3.4.2 Washington State Sensitive Species

According to the WDFW PHS Mapper report generated for the state park (WDFW 2021a), no state-listed threatened, endangered, and/or candidate species were indicated as potentially present in the state park. However, several state-listed and/or sensitive PHS features are mapped (Table 5) in the immediate vicinity of the park. No mapped fish/aquatic species were included in this analysis, as only those wildlife species that have potential to occupy terrestrial habitats within the park are addressed.

Several wetlands are mapped by PHS as within the park boundaries, but wetland presence in the park is addressed in a separate report (AECOM 2021), and wetlands are consequently not discussed further.

No PHS-mapped features were observed during field surveys in the area. However, several state priority species may occur within the beach and/or forested habitats adjacent to the analysis area. These include brown pelicans (*Pelecanus occidentalis*), great blue heron (*Ardea herodias fannini*) breeding areas, shorebird concentrations, and streaked horned larks and western snowy plovers. Common loons were observed flying over the park (WDFW State Sensitive) during surveys. However, these species are largely dependent on large aquatic

habitats in Washington State, and would be unlikely to utilize the terrestrial habitats with WLSP (aside from occasionally flying over the park).

3.4.3 Birds of Conservation Concern

In addition to those species listed under the ESA, USFWS IPaC reports also generate a list of migratory bird species that may warrant attention for a given project (USFWS 2021). This list is used by USFWS to identify those birds that, without additional conservation action, may become candidates for listing under the ESA. However, birds included on this list are not provided additional regulatory protections under the ESA, aside from those that may apply under the MBTA or BGEPA or other relevant regulations. All of these birds have potential to occur in WLSP or the nearby open water. Those species observed during surveys are indicated by bolding in Table 6. The birds listed in Table 6 are either USFWS Birds of Conservation Concern (BCC) in the area or are protected by the BGEPA.

Table 6. Birds of Conservation Concern and Likelihood of Occurring in Westport Light
State Park

Species Common Name <i>Scientific Name</i>	Reason for Inclusion	Brief Description of Suitable Habitat
Bald Eagle <i>Haliaeetus leucocephalus</i>	BGEPA	Often occur near rivers, marshes, lakes, and coastlines. Often perch/nest on tall structures with a commanding view of the area.
Black Oystercatcher Haematopus bachmani	BGEPA	The Black Oystercatcher's habitat includes rocky seacoasts and islands, less commonly sandy beaches, where they eat mollusks, especially mussels and limpet.
Black Turnstone Arenaria melanocephala	BCC	Inhabit the Pacific coastlines, especially rocky habitats. Foraging and roosting occurs on rocks, but they may feed in adjacent muddy or sandy habitats.
Black-footed Albatross Phoebastria nigripes	BCC	Nest on sandy islands, but spend the majority of the nonbreeding season on the open ocean.
Clark's Grebe Aechmophorus clarkii	BCC	Nest on large lakes and marshes. Nesting in tidal areas is unusual. May occupy saltwater or brackish habitats during the non-breeding season.
Great Blue Heron Ardea herodias fannini	BCC	Prefer areas with short grasses such as prairies and agricultural fields. Found in wetland habitats outside the breeding season.
Lesser Yellowlegs <i>Tringa flavipes</i>	BCC	Breed in areas with water and dense shrubbery. Riparian areas are often used.
Long-billed Curlew <i>Numenius americanus</i>	BCC	Summers are spentin areas with sparse grasses (prairies, agricultural fields, etc.). Winter in wetlands, tidal estuaries, and beaches.
Marbled Godwit <i>Limosa fedoa</i>	BCC	Breed in shortgrass areas near wetlands. Overwinter in coastal mudflats, estuaries, and beaches.
Olive-sided Flycatcher Contopus cooperi	BCC	Breed in coniferous forests, including spruce, fir, hemlock, cedar, and others. May use any forested area.
Pink-footed Shearwater <i>Puffinus creatopus</i>	BCC	Nesting occurs on islands off south America. Commonly seen during summer off the pacific coast in the open ocean.

Species Common Name <i>Scientific Name</i>	Reason for Inclusion	Brief Description of Suitable Habitat
Red-throated Loon <i>Gavia stellata</i>	BCC	Use wetlands and small lakes to breed in the far north. Fly along ocean shores during migration. May winter in marine waters near land.
Rufous Hummingbird Selasphorus rufus	BCC	Breed in shrubby/open areas such as forest openings, parks, etc. throughout the Pacific Northwest.
Scripps's Murrelet Synthliboramphus scrippsi	BCC	Breed in southern California and into Mexico on small islands off the coast. Rarely seen near shore, and may forage well out into the open ocean.
Semipalmated Sandpiper <i>Calidris pusilla</i>	BCC	Typically nest in tundra near marshes or ponds. Migrating birds may stop over at wetlands, beaches, beaches, and others.
Short-billed Dowitcher <i>Limnodromus griseus</i>	BCC	Breed in the northern wetlands in areas where tree growth is stunted. Winter in saltwater environments such as estuaries and lagoons.
Whimbrel Numenius phaeopus	BCC	Winter on tidal mudflats, saltmarshes, lagoons, etc. Breed in subarctic tundra.
Willet Tringa semipalmata	BCC	Willets inhabit open beaches, bayshores, marshes, etc. Wintering is widespread in similar habitats.

Source: Cornell Lab of Ornithology 2021

Key: BCC = Birds of Conservation Concern; BGEPA = Bald and Golden Eagle Protection Act

Three BCC were observed during surveys of the park, including the olive-sided flycatcher, rufous hummingbird, and whimbrel (*Numenius phaeopus*). Whimbrels were observed flying over the park, but were not observed utilizing available terrestrial habitats at the park. They are closely associated with coastal and estuarine sand beaches and mudflats/saltmarshes (Larson et al. 2004), which are not present in the surveyed portions of WLSP. However, this species does occasionally use habitats like marshes, meadows, and fields that do occur in WLSP (Cornell Lab of Ornithology 2021). They would be most likely to occur in the coastal areas immediately adjacent to WLSP (outside the survey area), although may occasionally use available upland habitats within the park.

Both olive-sided flycatchers and rufous hummingbirds were observed using habitat within WLSP. The presence of these birds in WLSP is notable due to the substantial reductions in population both species have experienced throughout their range.

Olive sided flycatchers have experienced an annual decrease of approximately 3.5 percent in population throughout their range, resulting in an estimated 75 percent decrease in overall population size, as measured over 40 years of surveying (Kotliar et al. 2007). The species is closely associated with forest openings and edges, often following disturbance. Particularly important aspects of the species habitat includes the combination of forest openings and mature forest, including an abundance of snags (Kotliar et al. 2007). As WLSP combines both forested and open areas with areas of wetland matrix, WLSP may serve as valuable areas of available habitat for the species.

Rufous hummingbirds have also experienced significant declines. Data collected as a part of the Breeding Bird Survey indicate that the species has declined at an annual rate of 2.1 percent, resulting in an estimated 65 percent decrease in overall population size (English et al. 2021). These trends have recently accelerated and are especially pronounced on the Pacific Coast

(English et al. 2021). The species is typically associated with open/shrubby areas and forest openings, although they can also be found in meadows and brushy wetlands. The habitats present at WLSP may serve as valuable areas of available habitat for the species.

Bald eagles were also observed flying over WLSP. The species appears in the BCC list provided by USFWS due to protections for the species established under the BGEPA. Eagles are often associated with coastal areas, particularly where suitable trees are available for perching and roosting in proximity to water bodies. While eagles were not observed perching or using terrestrial habitats within WLSP during surveys (rather, flying above the park), the terrestrial habitats present in the park could support bald eagles.

4. Conclusion and Recommendations

WLSP represents an important area in terms of conserving and protecting undeveloped coastal wildlife habitat in Washington. While some portions of the park have clearly been heavily impacted by invasive plant species, valuable interdunal wetland and dune habitats remain. There is opportunity to conserve rare wildlife species within the park, including species that were observed during field surveys or are known to occur in the area (e.g., olive-sided flycatcher [Appendix B – Photo 9]). As in other dune habitats in Washington, the dune habitats at WLSP have been invaded by non-native plants (e.g., Scotch broom and European beachgrass). Restoration of these communities would likely benefit wildlife diversity and abundance in general within the park.

Recommendations to improve wildlife habitat within the park are largely similar to those detailed in the 2017 vegetation survey report (AECOM 2017). These include control of non-native species, removal of construction debris, controlling unauthorized campsites, wetland protection, and upland dune restoration.

- **Control of non-native plant species.** Non-native plants, particularly Scotch broom and European beachgrass, are a dominant component of many habitat types within the park. Because these infestations are often interspersed among high-quality habitats, manual and mechanical methods are recommended to avoid damaging other habitat types.
- **Construction debris removal.** Silt fence, plastic poles, and various other construction materials still remain at the park from the attempt at constructing a golf course. These should be removed from the park.
- **Control of unauthorized campsites.** As the park is adjacent to the community of Westport and offers access to forested areas that can conceal camps, it is attractive to unauthorized campers. Several unauthorized campsites were observed in the park during surveys.
- Wetland protection. The wetlands present at WLSP are uncommon in the landscape and in good condition. These wetlands should be protected and prioritized as development/management projects are considered for WLSP.
- **Upland dune restoration.** The upland dune habitats in the park are in poor condition, largely due to invasion by non-native plant species. These areas could be restored with removal of Scotch broom, European beachgrass, and control of encroaching shore pine.
- **Prioritize riparian shrub areas with intact adjacent upland habitats for protection.** Riparian-associated birds make use of grass, shrub and woodland habitats adjacent to riparian zones throughout their lives. Upland zones provide migratory stopover grounds, foraging habitat, and dispersal corridors for non-breeding adults and juveniles.
- **Promote mixed open wet area health.** These patchy areas were somewhat isolated during construction of the golf course but are recovering and developing into a somewhat unique habitat. The size and connectivity of the wet area patches may be limiting to wildlife species' occupancy and population size. Patch sizes must not fall below the minimum necessary to support populations based on territory size requirements, community dynamics, and sensitivity of some species to fragmentation and edge effects (increased predation/parasitism rates).

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Appendix A Figure

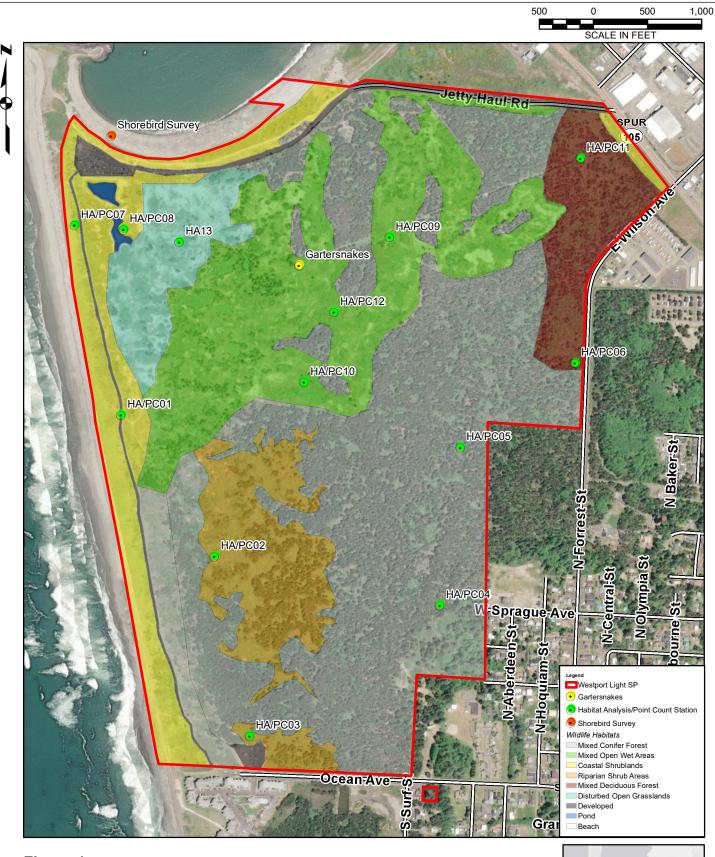


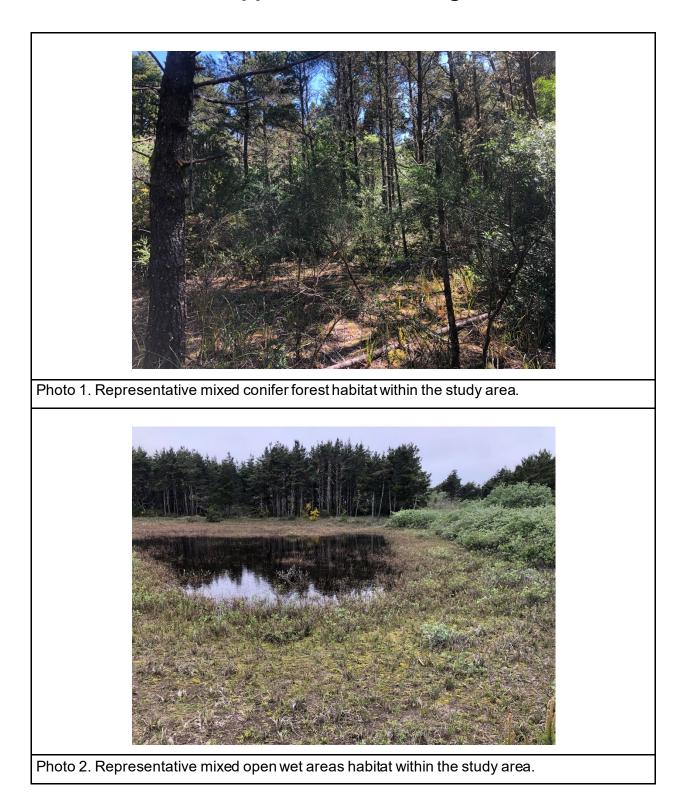
Figure 1

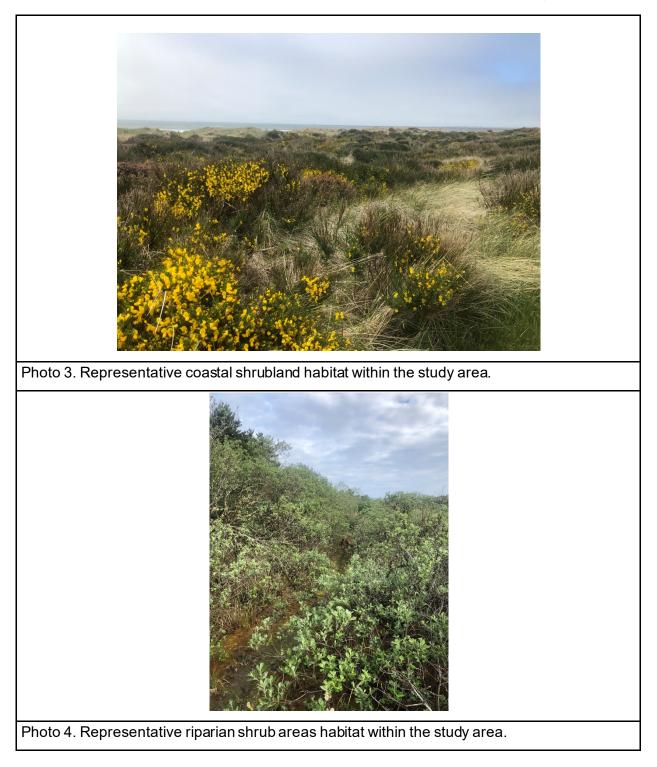
Westport Light State Park Wildlife Habitat Assessment Westport, Washington



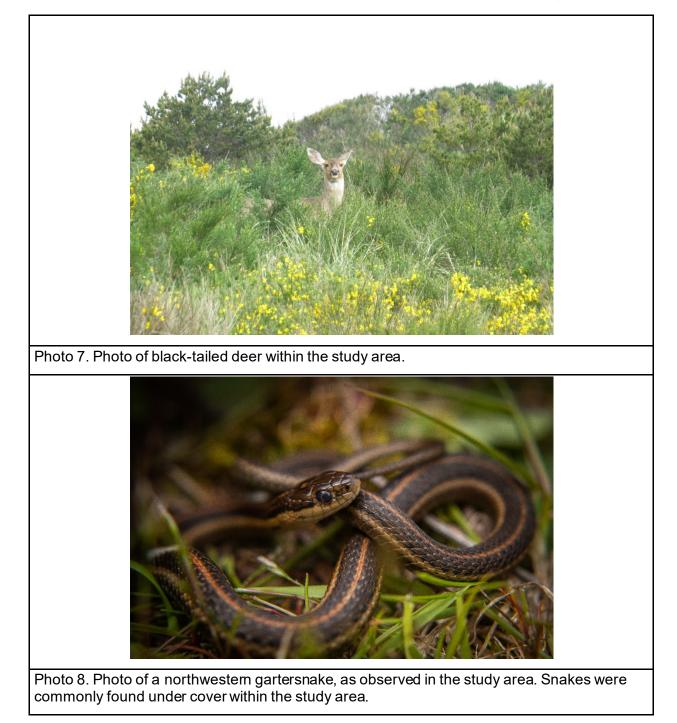


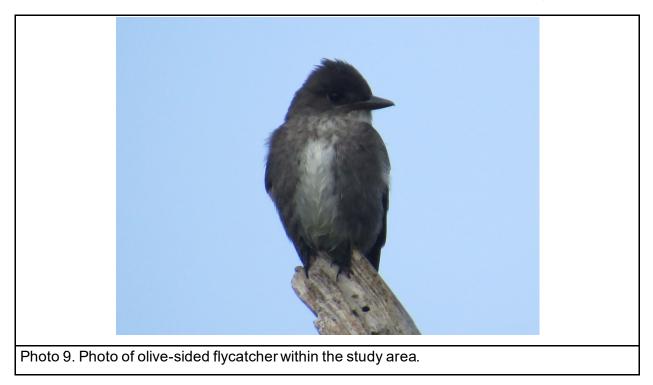
Appendix B Photolog











Appendix C Wildlife Habitat Assessment Forms

Site Number	Total Habitat Score as Existing	Total Acres
PCHOI	36	Prod situations
Site Location	Field Dates	Field Observers
Westport s!	5/12/2021	GM+3DB
General Comments: Large de	he Developed trail	Priotopican Description

Hab	oitat Component		Degree Presei	nt	Score	Comments
	Quantity and Seasonality	None	Seasonal 4	Perennial 8	0	No work(Prasent
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	2	and all to doubt starting a
Wa	Proximity to Cover	None	Near 4	Adjacent 8	0	541
	Quality Flushing	Stagnant 0	Seasonal 3	Continuous 6	0	
	Quantity and Seasonality	None O	Limited	Year Rnd 8	4	Hechelo borres
Food	Variety	tow	Medium 4	High 8	0	
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	Lucz sobard
	Structural Diversity	Low 0	Medium 4	High 8	0	Essentionly Just Shiphs
	Variety	Low 0	Medium 4	High 8	9	Species States
Cover	Seasonality	None 0	Limited 2	Year Rnd	9	Trans of Plant
	Nesting Denning, etc.	Low O	Medium 2	High 4	2	Contraunities:
	Escape	Low O	Medium 2	High 4	4	Smint Stages of PJ
	Physical Disturbance	Permanent 0	Temperary	None 4	2	Pormanent Raved trail b
Other Values	Human Disturbance	High	Medium 2	Low 4	D	Constal Health 20 Vitality of Plant Co
	Interspersion With Other Habitats	Low	Medium 3	High 6	0	
	Habitat Type	0		4	3	Undersloped Shirs/ne
Unique Features	Flora	0	Set Transpoor	4	2	Potortial for Europional
	Fauna	0	-	4		V

Site Number	Total Habitat Score as Existing	Total Acres
PGH 21	36	
	Weather on Day of Field Observati	on
Precipitation: Dry	Wind Speed:	5-10
Cloud Cover: 60%	Temperature:	60

r i i

Phys	ical Environment	
Topography		
Description:		
Description: Long olune, billy	>	
Slope Orientation and degree of slope: 🖉 -	5%	· · · · · · · · · · · · · · · · · · ·
Types of Water		
Features Present: Nonc		
10 5000		1.41
Portion of Site Inundated: N/A		
Major Structures or Roads:		11 To
Pared walking poi	16	
	Vegetation	
List of Herb		
Species: Dine grasses		
List of Shrub		
Species: Schaft s broom, aven	aven marcheler	En g
	J.	
List of Tree		
Species: Shore porre		
Types of Plant	1 1	
Types of Plant Communities: Shock Dom	el aune	
1000		
Serial Stages of Plan		
Communities: M.SC SUCCESS, Sin	al	
General Health and	~	
	2	
Vitality of Plant Communities:		
9/ Canany Classura Harb Zanas () Chr	ub Zone: 60	Tree Zone: 7
Appx # of Snags Per Acre:	Diameter of Largest	Snag (ft): 🔿
% Aquatic Veg Floating: 📿 Em	ergent %: 💍	Inundated %: \bigcirc

	-		ibitat Score as	-			Site Number
Site No		Total Hat	oitat Score as	Existing	Total	Acres	
	C#02	62	6. 69.2.4 			01	antinina a
	beation	Field Date				Observ	
	foor SP al Comments:	5/121	21	Graden _ Colvi Mi	()/	M+x	
Gener	Hookars Willo	พ.ศ. fnam	ysical Environ	19			Topography Description:
На	abitat Component		Degree Preser	siope: tr	to er ng	Score	Comments
	Quantity and Seasonality	None 0	Seasonal	Perenni 8	ial	4	Features Present
Water	Diversity Streams/Ponds/Etc.	None (2	Two 4	Three 8	1:	2	Portion of Site In Major Structures
Wa	Proximity to Cover	None 0	Near 4	Adjace		8	U. 100 - 1
	Quality Flushing	Stagnant 0	Seasonal	Continuo 6		0	
	Quantity and Seasonality	None 0	Limited	Year Rn 8	nd	4	Ust of Herb Species:
Food	Variety	Low 0	Medium 4	High 8		9	
	Proximity to Cover	None 0	Near 4	Adjacen (8	pt	8	List of Shrub Species:
	Structural Diversity	Low	Medium	High 8	4	4	
	Variety	(Low)	Medium 4	High 8		0	Species:
Cover	Seasonality	None 0	Limited	Year Rn 4	id i	2	main to estive
	Nesting Denning, etc.	Low 0	Médium 2	High 4	-	7	Communities:
	Escape	Low 0	Medium 2	High (4)		4	Che encod teles 2
	Physical Disturbance	Permanent 0	Temporary 2	None (4		4	Communities:
Other Values	Human Disturbance	High O	Medium 2	Low 4		4 ы	General Health a
	Interspersion With Other Habitats	Low 0	Medium 3	High		6	
0 5	Habitat Type	0	hrub Zone:	2 4	is no?	3 hoH	Unique habita
Unique Features	Flora	er of Logest S	Linemeter.			3	Appx # or shags !
- 02	Fauna	0		4	-	3	

ł,

Site Number		Score as Existing	Total Acres	and Physics -
<u> </u>	Weather on Day	of Field Observati	l on	
Precipitation: Du	weather on Day	Wind Speed:		
Cloud Cover: (00%	· · · · ·	Temperature:		-14 miles
	Physical	Environment		C 10.44
Topography				
	a slight de	Alles ab	an a land states the sector day in the state of the sector of	
the second se	and the second	Q		en possiente
Slope Orientation and degree	e of slope: 0%		an ing panang tang tang tang tang tang tang tang	- 13
Types of Water Features Present:	Northesis North	- 12 - 14U.W	Line - Walder	
Jaan	omal invr	noterion		
Portion of Site Inundated:	70	e en		
Major Structures or Roads:	()	70	the Reconcilent of the	
Small you	me trail			2.5
			an a	
	Vo	getation		
List of Herb		getation	Torra to seta	
Species: Slough 3	odae			
		<u> </u>	1792a.s	Ŷ
List of Shrub			instant statement	
Species: hookans	one had a contraction of the second	P		11111
			physical in the second	
List of Tree	00151 776	e 190		
Species: Share p	me			
				10
Types of Plant	11. 			1.0
Communities:				
thanksa	5 Willow.			
	- VVI /10AV.			1
Serial Stages of Plan Communities: //a fra	Succease ona	1	 Second and the second seco	there was
communices: /af8	SUCCESSI ona	. (
General Health and			a constantio fi destasor	ā.
Vitality of Plant Communities	s:			
60				
an an a tha anna an anna anna an anna an an an an			warman with the structure of the second structure	lan
% Canopy Closure Herb Zone	00	100	Tree Zone: 5	
Appx # of Snags Per Acre:		Diameter of Larges		
% Aquatic Veg Floating:	- Emora	ent-%:	Inundated %: 70%	-

Site N	umber	Total Hat	oitat Score as	Existing	Total Acres				
PC	403	54	Sandri in The Alexandri	V COLUMN I					
	ocation	Field Date			Field Observ	/ers			
W	esteat SP	5/1	1202/3		GMY	JDB			
Gener	al Comments: S COULO 460Ka	₿ Willow	ysical Enviroit	1999) 1997	De la construir de la postoarca de	Toace and white a constant of the constant of			
H	abitat Component		Degree Prese	f slope. tr	Score	Comments			
	Quantity and	None	Seasonal	Perennia	al /1	Seasonar			
	Seasonality	0	(4)	8	4	Znundation			
	Diversity	None	Two	Three	1.04	Per Le Site n			
fer	Streams/Ponds/Etc.	(2)	4	8	2	Milor Stru tures a			
Water	Danutin the Court	None	Near	Adjacen	t	and the second second second			
	Proximity to Cover	0	4	8	8				
FURY Chellon	Quality	Stagnant	Seasonal	Continuo	us				
	Flushing	0	roite : 3.ov	6	0	the second to be made and an ele-			
	Quantity and	None	Limited	Year Rno		List of erb			
	Seasonality	0	(4)	8	4	Species.			
8	Mantaka	Low	Medium	High	U				
Food	Variety	0	(4)	8					
-	Brovinity to Covor	None	Near	Adjacent	t (/	Lis o Shrub			
	Proximity to Cover	0	4	(18)	$\square \mathcal{D}$	Spe ios			
	Structural Diversity	Low	Medium 4	High 8	0				
	Variety	Kow 0	Medium 4	High 8	D.	s y ree Specier			
Cover	Seasonality	None 0	Limited	Year Rno 4	2				
	Nesting	Low	Medium	High		625 1 Mid			
	Denning, etc.	0	(2)	4	2	m nu sties.			
		Low	Medium	High					
	Escape	0	2	(4)	C	3 of Distant			
	Physical Disturbance	Permanent 0	Temporary	None 4	2	ommunities			
Other Values	Human Disturbance	High 0	Medium 2	Low 4	2	General healt i zi			
	Interspersion With Other Habitats	Low 0	Medium 3	High 6	B	and the Constant			
	Habitat Type	0	i ab Z mei	2 4	10036	Willow Votches are cose in S			
Unique Features	Flora	01101	Diameter	4	3	Egane to # xqqA			
5 2	Fauna	0	-	4	3	riparian areas			
	raulia	-				Love water			

Diversife

Site Number	Total Habita	t Score as Existing	Total Acres	
PC#03		59	en en anteres anne trend and en en a	n na star na herena anna an stàr an tao an sao an Anna an tao
	Weather on Da	ay of Field Observ	ation	
Precipitation: Dru		Wind Speed:	5-10	
Cloud Cover: 01/0		Temperature:	60	
	8 · 0 · · · ·		er mer mer m	densities" in second b
	Physica	al Environment		
Topography Description: Slat		en (a contra c	$\label{eq:constraint} (1+p_{i+1}) < p_{i+1} $	
Slope Orientation and degree	e of slope: 0%	and a constant of	And a second	and the second
Types of WaterFeatures Present:Seatures	asomal ir,	molotion	S Lone (1903) af Sylliferioration	al an ann an t-1 Mar ann Anna Ann Canadan a' an an a' an
Portion of Site Inundated:	70	41261	n - 1964 A.T	
Major Structures or Roads:	out ada	acrit Park	ng lot	
		p. J		
		egetation	And the share of the second	
List of Herb	and the second second second			
Species: Dlova	h sod	Re		
species.		-0	glaubi -	
			17.9 15 4	
List of Shrub	trice set A	waki unta	e nerst rankt	
Species: Stouch	Deolac		17 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	
Species: <u>Stoush</u>	Tet the	sollers	Willow, S.	0.00
List of Tree 7				
Species: N/A				
10/10				-
		anen a Si		
Types of Plant		1)	L State Production	
Communities:	hors w	(Ilow		
		and the		
entri eta				
Serial Stages of Plan Communities:	SUCCESS	vonal	and an	na na si
General Health and Vitality of Plant Communitie	s: goal.		i tres bendis 1 dan ava 1 dan ava	5
% Canopy Closure Herb Zone	: 60 Shrub	Zone: 100	Tree Zone:	0
Appx # of Snags Per Acre:	0	Diameter of Larg		N/A
% Aquatic Veg Floating:	Emer	gent %:	Inundated %:	20
		- 6 Wothand		

Site N	umber	Total Hat	bitat Score as	Existing	Total Acres	
	424	63	A AND A TO PROPERTY	12 1012000 ·		
Site Lo	ocation	Field Date			Field Observ	vers
	estport SP	5/12.	121	were and the second second	6M +7	SDB .
Gener	Shaepine (orestinom	monivna Isoley	/flq		Topography Description:
Н	abitat Component		Degree Preser	of slope in	Score	Comments
	Quantity and Seasonality	None 0	Seasonal	Perennia 8	4	Ephonara 1 Saturtion
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	2	Portio of SH-In-
Na	Proximity to Cover	None 0	Near 4	Adjacent 8	8	
victoria	Quality Flushing	Stagnant 0	Seasonal 3	Continuou 6		no secondo en la seconda en la s
	Quantity and Seasonality	None 0	Limited	Year Rnd 8	4	Pine seeds hadebesties
Food	Variety	Low 0	Medium 4	High 8	4	
	Proximity to Cover	None 0	Near 4	Adjacent	8	List f 9, rub Species:
	Structural Diversity	Low 0	Medium	High 8	4	
	Variety	Low 0	Medium	High 8	4	r st or rrea
Cover	Seasonality	None 0	Limited	Year Rnd	4	
	Nesting Denning, etc.	Low 0	Medium	High 4	2	Visc of Pain Conmunities:
	Escape	Low 0	Medium 2	High	4	1.8
	Physical Disturbance	Permanent 0	Temporary	None 4	2	Small hikens
Other Values	Human Disturbance	High O	Medium 2	Low 4	4 6	General Hoalth a
	Interspersion With Other Habitats	Low 0	Medium 3	High 6	6	
	Habitat Type	0	្លាះក្រុង) ដំណា	12 4	Herb (or 1:	Inter habitat
Unique Features	Flora	C C Olest 2	Ueme e	4	ATP.	
- 2	Fauna	0		4		General Annual Annua

Site Number	Tota	l Habitat Score as Exi	isting	Total Acres
PC#04	Maria Maria 1 A T	63	and an and a second	
	Weath	er on Day of Field Ob		n
Precipitation:		Wind Spe		5-10
Cloud Cover: 08		Temperat	ture: (60
	n			The second s
		Physical Environmer	nt	
Topography Description:	with m	arnelis	-	
Slope Orientation and de			ant souther	terre and the second second second
Types of Water	nen e e e e e e e		1	and the second
Features Present:	Ephomoso	n Welhond	1012475	
		n ppcho.st		- Angellani se
Portion of Site Inundated		2	104.390	1 6 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Major Structures or Road		1 1		
Small	1 hilema	trail	59/11/59	stantine encoded in 1 Br
)		
		ANY DATE OF STREET		STRUCTURE STRUCTURE
		Vegetation		
List of Herb	gaine albre	Q-939400 (
Species: Shongh	schoe			
	J			
List of Shrub				
	brann 1	Energen II und	2 have	Red Includeling
	 • • • • • • • • • • • • • • • • • • •	starge nucles	Noriny	
Sonton	r/			Writian Trial Ship
List of Tree	i.	in an earlier the		
Species: Sitile	e Sprvce	, Share p. nB,	alda	A DECEMBER OF A
	7	in the second second		
				Calling and
Types of Plant	Ca	East		
Communities: Shore	e pine	10(00)		
	100 110 100 000 100			
				and the second
Serial Stages of Plan	Contract Contract	and the second s	an and the second second	$= (-k)_{i} x_{i}^{i} x_{i}^{i} + (-i)_{i} x_{i}^{$
Communities: lafe	s sulce.	ssional l		
				No. and the second s
General Health and				
Vitality of Plant Commun	nities:		Cold A	p 0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
	2000 Le	althing some.	reasin	
6	Con Inc	11		
and the second		terror has a second second second		s ("Children) Grand de la recorde de la record
% Canopy Closure Herb 2	ione: 30	Shrub Zone: 410	in land and a marked of the second seco	Tree Zone: 40
and the second	ione: 30	terror has a second second second	in land and a marked of the second seco	Tree Zone: 40

Site Number	Total Habitat Score as Existing	Total Acres
PC#05	66	
Site Location	Field Dates	Field Observers
Nestport SP	5/12/2)	GM+-SDB
General Comments: Share pine	e Forest	Aliza Marine Print

•

Н	abitat Component		Degree Prese	Score	Comments	
	Quantity and Seasonality	None 0	Seasonal	Perennial 8	4	Scissofford Cohomsonl
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	2	
Ŵ	Proximity to Cover	None 0	Near 4	Adjacent 8	8	
	Quality Flushing	Stagnant	Seasonal 3	Continuous 6	0	
	Quantity and Seasonality	None 0	Limited	Year Rnd 8	4	Pine Searly Hearlobsing
Food	Variety	Low 0	Medium	High 8	. 4	
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	ing the relation
	Structural Diversity	Low 0	Medium	High 8	9	
	Variety	Low 0	Medium 4	High 8	4	- Sprotest
Cover	Seasonality	None 0	Limited 2	Year Rnd	cf	and the second
	Nesting Denning, etc.	Low 0	Medium	High 4	2	Commission
	Escape	Low 0	Medium 2	High 4	4	
	Physical Disturbance	Permanent 0	Temporary 2	None 4	4	
Other Values	Human Disturbance	High 0	Medium 2	LOW 4	4	en oldskiller en dit
	Interspersion With Other Habitats	Low O	Medium 3	High 6	6	
e S	Habitat Type	0	-	4	Í	Putalt Habitat
Unique Features	Flora	0	-	4	1	
	Fauna	0	-,	4	1	₹V

Site Number	Total Habitat Score as Existing	Total Acres					
PCHOS	65						
Weather on Day of Field Observation							
Precipitation:	Wind Speed:	5-10					
Cloud Cover: 15%	Temperature: (20					

Ĩ	Physical E	nvironment			
Topography Description: Flot with Mayo	als				
Slope Orientation and degree of slope:	0%		-		
Types of Water	. /	1			
Features Present: Ephemonal 1	Netlon	nl			
Portion of Site Inundated: 20					
Major Structures or Roads: None					
	Veg	etation			
List of Herb					
Species: .sjongh scolage,					
List of Shrub Species: 56 H's broom, Ev	ergreer	Hickleber	ry labrador toon		
List of Tree Species: Share pine					
Types of Plant Communities: Shave poine	Gse	st			
Serial Stages of Plant Communities:	53. ala	9			
General Health and Vitality of Plant Communities: good, healthy. Some investive.					
% Canopy Closure Herb Zone: 30	Shrub Zo	one: 30	Tree Zone: 40		
Appx # of Snags Per Acre:	D	iameter of Larges	t Snag (ft): 🔗 "		
% Aquatic Veg Floating: 🕤	Emerge	nt %: 20	Inundated %:		

ite Nu	mber	Total Habitat Score as Existing			Total Acres		
PC#	06	THE PLAY INCO				11 11 11 10 10 10 10 10 10 10 10 10 10 1	
ite Location		Field Dat	the second se		Field Observers		
vestig	port SP	5-12-21 6M JD			JP		
nera	I Comments: Aldr	- forut	ysical Environ	Phy		Topography Description:	
Ha	bitat Component		Degree Preser	nt ope sig	Score	Comments	
	Quantity and Seasonality	None 0	Seasonal	Perennia 8	4	spugh sedon	
-	Diversity Streams/Ponds/Etc.	Nome 2	Two 4	Three 8	Roads	weth	
	Proximity to Cover	None 0	Near 4	Adjacent 8	: 8	over	
	Quality Flushing	Stagnant	Seasonal 3	Continuou 6	is 0	 Second and Second Second	
	Quantity and Seasonality	None 0	Limited 4	Year Rnd	8	1 .+ ∪f Heib Speciek	
	Variety	Low 0	Medium 4	High 8	8	inserts, sech	
	Proximity to Cover	None 0	Near 4	Adjacent 8	B	Lift of Shrub Species	
	Structural Diversity	Low 0	Medium	High 8	9	ggde tre caropy	
	Variety	Low Q	Medium 4	High 8	8	species:	
	Seasonality	None 0	Limited	Year Rnd	2	deenta-	
	Nesting Denning, etc.	Low 0	Medium 2	High 4	4	Ypes i rear Cummunities	
	Escape	Low 0	Medium 2	High	9	10 - 10	
	Physical Disturbance	Permanent 0	Temporary 2	None 4	4	Communities.	
Values	Human Disturbance	High 0	Medium 2	Low 4	5	rodd reity	
	Interspersion With Other Habitats	Low 0	Medium 3	High	6		
T	Habitat Type	0		12 4	0 021194	Not unique for but potentially	
Features	Flora	1 3502 10.1	D aniete	4	2		
۲ ^۲	Fauna	* 0	-	4	1		

X

Site Number	Tota	al Habitat Score as Existing	Total Acres
		75 ner on Day of Field Observa	tion
Dessistations 70	weath		
Precipitation:DragWind Speed:5-10Cloud Cover:15%Temperature:55°			
Cloud Cover: 15%		Temperature:	
			internet in an and the
	· · · · · · · · · · · · · · · · · · ·	Physical Environment	
Topography Description: $flat$,	e e cal de composite de la Prod	ersektionen und sind zum gewinden und sind	ganggin ng Sama ng pantaina in 1990. Na ana in 1989 matalaina teor
Slope Orientation and de	gree of slope	: 0%	
Types of Water	a series and the series and	osonall) mosa! C.	enantes en antes en antes en antes En en en antes El En en antes
Portion of Site Inundated	: 60%	seaso nal	y e silo
Major Structures or Road	Is: n	heal road adjour	carat
Mext. Vm 7	roffilled	has Tord order or	real 2 still y tehnologia
1	8221.40°0	na antonada a serva	
		Vegetation	Blog 22-111
List of Herb Species: Slovat	scologe		 Bros. of Hotestan 1 State State State Mark 197
List of Shrub			
Species: E.Verard	DAD HIS	akkeing, Red	Indele berry
species:			
	0.00		and the second second
List of Tree Species: Red W	lalor	nasiedy N	
		n internet many	and General Market States
Types of Plant Communities: Cod	Aldar	Shough scalar	we Pland
			A SHOCK
Serial Stages of Plant Communities: /ofc	, sile	250.002	$(a_1 a_2 a_3 a_4 a_5 a_4 a_5 a_6 a_6 a_7 a_7 a_7 a_7 a_7 a_7 a_7 a_7 a_7 a_7$
General Health and Vitality of Plant Commun	ities: Vife	ievil + hoorthay a	rod.
% Canopy Closure Herb Z	one: 70	Shrub Zone: 35	Tree Zone: 45
Appx # of Snags Per Acre		Diameter of Larg	est Snag (ft): 🔍
	1		

Site Number	Total Habitat Score as Existing	Total Acres
PCHOT	36	
Site Location	Field Dates	Field Observers
Westport St	5 18 81	GM+TDB
General Comments:	no grows habitas	

Ha	abitat Component	itat Component Degree Present			Score	Comments
	Quantity and Seasonality	None	Seasonal 4	Perennial 8	0	No water
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	2	territed of Sheetrest Milder Frankford
Wa	Proximity to Cover	None	Near 4	Adjacent 8	0	a second and a second
	Quality Flushing	Sta gna nt	Seasonal 3	Continuous 6	0	
	Quantity and Seasonality	None 0	Limited 4	Year Rnd 8	4	Just grantes
Food	Variety	LOW	Medium 4	High 8	0	
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	
Cover	Structural Diversity	Low	Medium 4	High 8	0	
	Variety	Low 0	Medium 4	High 8	Ð	Lina herang?
	Seasonality	None 0	Limited	Year Rnd	4	
	Nesting Denning, etc.	Low 0	Medium 2	High 4	2	Common Marine
	Escape	Low 0	Medium 2	High 4	2	17 November 1 Income
	Physical Disturbance	Permanent 0	Temporary 2	None 4	Z	a shi imatona i
Other Values	Human Disturbance	High O	Medium 2	Low 4	Z	na diaminina ang
	Interspersion With Other Habitats	Low O	Medium	High 6	3	
a S	Habitat Type	0		4	4	Unique duragen
Unique Features	Flora	0		4	2	Passibly Some unique alus
- ŭ	Fauna	0		4	1	

			\bigvee
Site Number	Total Habitat Score as Existing	Total Acres	
Prtton	36		
	Weather on Day of Field Observati	ion	
Precipitation:	Wind Speed:	5-10	
Cloud Cover: 100	Temperature:	55	

Physical Environment				
Topography				
Description: Collina Dones				
Slope Orientation and degree of slope: $0-5\%$				
Types of Water				
Features Present: None				
Portion of Site Inundated: N/P				
Major Structures or Roads:				
Social trails cotting through hapital				

Vegetation					
List of Herb Species: Dune grounds					
List of Shrub Species: Trace scitt's proon and shlow					
List of Tree Species: N/A					
Types of Plant Communities: June grassionalis					
Serial Stages of Plan Communities: And Successional					
General Health and Vitality of Plant Communities: Loga (Flam)					
% Canopy Closure Herb Zone: 100	Shrub Zone: 5	Tree Zone: N/A			
Appx # of Snags Per Acre: 🧷	Diameter of Largest	Snag (ft): 🗇			
% Aquatic Veg Floating:	Emergent %:	Inundated %:			

Site Number	Total Habitat Score as Existing	Total Acres			
PCHOX	70 64	Tradigitation:			
Site Location	Field Dates	Field Observers			
Wastport	518181	GM+3DD			
General Comments: Distribed yolundis (grosslonde W/scatterd Slorepine)					

Н	abitat Component		Degree Preser	nt	Score	Comments
	Quantity and Seasonality	None O	Seasonal 4	Perennial 8	8	Singers and a single structure of the
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	4	Nujor Structures of
	Proximity to Cover	None 0	Near	Adjacent 8	4	
	Quality Flushing	Stagnant 0	Seasonal 3	Continuous 6	0	
	Quantity and Seasonality	None O	Limited 4	Year Rnd 8	Ъ	Pine cones GRass, Stawborn Somer, macifi
Food	Variety	Low 0	Medium 4	High	8	
10	Proximity to Cover	None 0	Near 4	Adjacent 8	4	Species - Free
	Structural Diversity	Low O	Medium	High 8	4	List of Tree
	Variety	Low O	Medium 4	High 8	4	Species 24
Cover	Seasonality	None 0	Limited 2	Year Rnd	4	Types of Plant
	Nesting Denning, etc.	Low O	Medium 2	High 4	4	Communities
	Escape	Low O	Medium 2	High 4	2	an in an an ar in
	Physical Disturbance	Permanent 0	Temporary 2	None 4	4	Commission
Other Values	Human Disturbance	High	Medium 2	Low 4	0	Goreral Noalth an Vitality of Plant Cr
	Interspersion With Other Habitats	Low	Medium 3	High	30	
a X	Habitat Type	0	sanos aus	4	3	Ticas, agoustands, Ronfis
Unique Features	Flora	0	- additionation	4	1	
	Fauna	0		4	2	Potent. 21/4 Dirorse Habitets

Site Number	Total Habitat Score as Existing	Total Acres				
PC408	70 64					
Weather on Day of Field Observation						
Precipitation: Dim	Wind Speed:	10-15				
Cloud Cover: 100 Temperature: 50						
	Physical Environment	Contrast Interconduction Provide Provide				

	Fnysical Environment
Topography Description:	colling hills, most flot though. Occasional mon-made mapping ions/burns (pond:
Slope Orienta	tion and degree of slope: 9-5%
Types of Wate Features Prese	ent: Binds, Emangert wetlought
Portion of Site	e Inundated: 3.) %
Major Structu	acort to word and porkering lot

	Vegetation	
List of Herb Species: Gransed		
List of Shrub Species: 500775 broom, C	Evengreen Willele	sberry, Hookars willow
List of Tree Species: Shore prime,		
Types of Plant Communities: Disturbed		
Serial Stages of Plan Communities:		
General Health and Vitality of Plant Communities: M.S.	/Eurly Successi	ional
% Canopy Closure Herb Zone: 100	Shrub Zone: 10	Tree Zone: 15
Appx # of Snags Per Acre:	Diameter of La	rgest Snag (ft): $\mathcal{Z}^{\prime\prime}$
% Aquatic Veg Floating:	Emergent %: 30	1/2 Inundated %: 30 %

Site Number	Total Habitat Score as Existing	Total Acres
PCHOQ	76	Predoutions 5 //
Site Location	Field Dates	Field Observers
Westport	5/12/2021	GM+JDB
General Comments:	skess Willow, Ponel Complex	Topography Descriptions (2012) and an

H	abitat Component		Degree Presei	nt	Score	Comments
	Quantity and Seasonality	None 0	Seasonal 4	Perennial (8	8	Teatores Present
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	2	Major Nucleman
Ŵ	Proximity to Cover	None 0	Near 4	Adjacente	1000	
	Quality Flushing	Stagnant	Seasonal 3	Continuous 6	0	
	Quantity and Seasonality	None 0	kimited	Year Rnd 8	4	Spacies: chaos
Food	Variety	Low O	Medium 4	High	8	
	Proximity to Cover	None O	Near 4	Adjacent 8	8	two Contractory
	Structural Diversity	Low 0	Medium 4	High 8	4	List of Tree
	Variety	Low 0	Medium 4	High 8	8	Species:
Cover	Seasonality	None 0	Limited	Year Rnd 4	2	in all to provide
	Nesting Denning, etc.	Low O	Medium 2	High (4	4	Communities:
	Escape	Low O	Medium 2	High	4	Surfa) Stages of Pla
	Physical Disturbance	Permanent 0	Temporary 2	None 4	4	o vitezzh nGuvenoù-
Other Values	Human Disturbance	High O	Medium 2	Low	4	General Himith an Vispity of Plant Co
	Interspersion With Other Habitats	Low O	Medium 3	High 6	6	
	Habitat Type	0	en langa ann	4	2	
Unique Features	Flora	0	sie meginne	4	2	J2-bmargod Plan AS
- E	Fauna	0	-	4	2	Ampshibron C

Site Number	Total Habitat S	core as Existing	Total Acres					
PCH 09	76							
	Weather on Day of Field Observation							
Precipitation: Div		Wind Speed: 5-						
Cloud Cover: (00	Temperature: 50							
		1						
	Physical F	Invironment	AND THE POST OF A DRIVE COMPANY					
Topography		2						
Description: Unelulotive	Description: unpluipting with small ponder depressions							
Slope Orientation and degree of	slope: 0-5%							
Types of Water	1.0		and the second second					
Features Present: Bnds, h	k.Slouds							
Portion of Site Inundated: 50								
Major Structures or Roads:								
Small o	revarian T	ist rood, ole	l concrete building					
	0 1 .0		Youndwign					
	Veg	etation						
List of Herb	P							
Species: Grussos, Slovegy	scorage, Sp	site ash	1.12					
List of Shrub								
Species: .> coff's broom	, Hookers W	illow, spiras	<u></u>					
species. Destrict of	•	<i>C</i>						
List of Tree		<u> </u>	······································					
Species: Sharo pine								
Types of Plant								
Communities:	1 Gal	, safts lor.						
thoster will	on george							
		Ewitina						
Serial Stages of Plan								
Communities: Mial Ju	16685DiON							
General Health and								
Vitality of Plant Communities:								
	0							
			Tree 70001					
% Canopy Closure Herb Zone:		one: 30	Tree Zone:					
Appx # of Snags Per Acre:		Diameter of Larges						
% Aquatic Veg Floating: 🔿	Emerge	nt %: 🔿	Inundated %: 🕤					

Site Number	Total Habitat Score as Existing	Total Acres
PCHIO	66	the second s
Site Location	Field Dates	Field Observers
infortant SP	5/13/2021	SMITT
	llow, share pine, Scotts bizom	Duplassion

H	abitat Component		Degree Preser	nt	Score	Comments
	Quantity and Seasonality	None 0	Seasonal	Perennial 8	9	Testa or Los antes
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	Z	
Ň	Proximity to Cover	None 0	Near 4	Adjacent 8	8	
	Quality Flushing	Stagnant 0	Seasonal 3	Continuous 8	\bigcirc	
	Quantity and Seasonality	None 0	Limited	Year Rnd 8	4	Spreakers
Food	Variety	Low 0	Medium	High 8	4	
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	s
	Structural Diversity	Low 0	Medium	High 8	4	and the set of
	Variety	Low O	Medium 4	High 8	8	- 3 - 1 selong -
Cover	Seasonality	None 0	Limited 2	Year Rnd 4	2	
	Nesting Denning, etc.	Low O	Medium 2	High 4	<	and and a second and a second and a second and a second a
	Escape	Low 0	Medium 2	High (4)	4	14 Incomestication
	Physical Disturbance	Permanent 0	Temporary 2	None 4	Qu	
Other Values	Human Disturbance	High 0	Medium 2	Low 4	4	i - Ang sel tenneri Strang level tenneri
	Interspersion With Other Habitats	Low 0	Medium 3	High 6	6	
a v	Habitat Type	0	-	4	2.	
Unique Features	Flora	0	-	4	2	STATE STREET
<u>۳</u>	Fauna	0	-	4	2	

Site Number	Total Habitat Score as Existing	Total Acres
PCHIO		
	Weather on Day of Field Observation	on
Precipitation: M.S.F.	Wind Speed: 0	
Cloud Cover: 80%	Temperature:	55

Physical Environment
Topography colling with scattered depressions Description:
Slope Orientation and degree of slope: $\bigcirc -5\%$
Types of Water
Features Present: Scrub-shrub weitland
Portion of Site Inundated: 50
Major Structures or Roads: None. Historic
Vegetation
List of Herb Species: Slough scologe
List of Shrub Species: Houkers willow, Scott's broom
List of Tree
Species: Shart pr. ne
Types of Plant
Communities: Willow, Scotts broom, pine depressions
Serial Stages of Plan Communities: Midl 3006000000000
General Health and
Vitality of Plant Communities:
% Canopy Closure Herb Zone: 60 Shrub Zone: 80 Tree Zone: 25
Appx # of Snags Per Acre: O Diameter of Largest Snag (ft):
% Aquatic Veg Floating: D Emergent %: 50 Inundated %: 50

Site Number				Total Acres				
PC411		78						
Site Location					Field Observ	Field Observers		
11	lastport	5/	13/21	iand-ministration in	GM+31			
Gener	al Comments:	nent	vsical Environ	Pin		opography Isseriation:		
Ha	abitat Component		Degree Prese	nt iegola io	Score	Comments		
	Quantity and Seasonality	None 0	Seasonal 4	Perennia 8	4	seesmal number.on		
Water	Diversity Streams/Ponds/Etc.	None 2	Two 4	Three 8	2	o lon fSiteliti Via or Structures d		
W	Proximity to Cover	None 0	Near 4	Adjacent 8	8			
Service Reality	Quality Flushing	Stagnant 0	Seasonal 3	Continuou 6	is O	n newspaperson (* 1992) als a statistical a statistical de la seconda de l		
	Quantity and Seasonality	None 0	Limited	Year Rno 8	4	ist of He pectas		
Food	Variety	Low 0	Medium 4	High 8	8			
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	ist of Shrub pecies:		
	Structural Diversity	Low O	Medium 4	High 8	8			
	Variety	Low 0	Medium 4	High	8	ist o ea Paules,		
Cover	Seasonality	None 0	Limited 2	Year Rnd	2	NP C SAGA		
	Nesting Denning, etc.	Low 0	Medium 2	High 4	9	ypes or at lon mur ties:		
	Escape	Low 0	Medium 2	High	9	0 he		
5	Physical Disturbance	Permanent 0	Temporary 2	None 4	4	zai ta mut		
Other Values	Human Disturbance	High 0	Medium 2	Low 4	2	General Health a Seneral Health		
	Interspersion With Other Habitats	Low 0	Medium 3	Hilgh 6	6			
a 2	Habitat Type	0	rub Zo e'	4	Herz o	6 Canopy Clos		
Unique Features	Flora	t of Logers	U amete	4	Z	Ap x of nags i		
28	Fauna	0	-	4	2			

Site Number	Total Ha	bitat Score as Existing	Total Acres	
PG# 11	78	3		
	Weather o	n Day of Field Observati		
Precipitation: Dew	Les t	Wind Speed:		2
Cloud Cover: 60 ⁻ h		Temperature:	55F	
			Contractor of the	di pa
	Phy	sical Environment		
Topography				
Description: (- for	an a	Standard M. (200 - Gravity of School Static Processing Sciences (1997) 11-	ne a deservação a consideran de servição com esta e	(1) 44 (20)
Slope Orientation and de	gree of slope:	7.≱		5
Types of Water	Bree or stoper		and a second s	ilei Karinaa
••	sted we	0/ 0		
Forei	stod we	thind	http://www.com/	
Portion of Site Inundated	: 40	intal Santh	et in a second	
Major Structures or Road	s:	PA 1	In h Pat	
Mond	orsel row	I though industrial lo	NOVENTEN	4
Adyo	Gent to	industrial 10	W USC	
Ŭ.		i terran inter di anti di anti	eon o la	
		Vegetation	Shardar	
List of Herb	sall e	hanne a da		
Species: Slough	scoups 1	grosscs		
		Participation of the		
List of Shrub		- Id - example	*/	11
Species: SC.o.A	incord is	Soran, hooles	n' willow	
	berry	En comune en en proprio en comune a com	$(0,1)_{i=1}^{N} = (1,1)_{i=1}^{N} = (1,1)_{i=1$	i qui e tra
(0)	\geq	3. 8	1. Book #1992 and 1892 .	
List of Tree	210 - 2	7 110 200 10 10 10 10 10 10 10 10 10 10 10 10 1		
Species: 12000 1	Alolor, S	horagano		
		bia di può		
Types of Plant	bete name a s	den de la constante La constante de la constante de La constante de la constante de	ethi Daziwa	
Types of Plant	1.1.365	Bread P	id he feansan 1. geodesia	- Jun
Types of Plant Communities: Azerd	erlater	Arcst	i ne con	- Tarley
Types of Plant Communities: Accol	erlider	Arast	1.3-1 II	- Carlos
Communities: Aread		The provide the second se	1.3-1 II	
Communities: Aread		The provide the second se	1.3-1 II	
Communities: Aread		forcest recoustional	l de la de Les grandents entre la della della della della	
Communities: Acrol Serial Stages of Plan Communities: Mij General Health and	l-10,2 57	recoustional	l de la de Les grandents entre la della della della della	
Communities: Acrol Serial Stages of Plan Communities: Mij	l-10,2 57	recoustional	1 g. 4 g. July gamernig and the l and the l and the l and the last of the second secon	APPEN
Communities: Acod Serial Stages of Plan Communities: Mij General Health and	l-10,2 57	recoustional	1 g. 4 g. July gamernig and the l and the l and the l and the last of the second secon	A PROF.
Communities: Acad Serial Stages of Plan Communities: Mij General Health and Vitality of Plant Commun	l-laste 57 itties: gazol	recoustional	 A. J. S. A. S. A.	April 1 and
Communities: Acrol Serial Stages of Plan Communities: Mij General Health and Vitality of Plant Commun % Canopy Closure Herb Z	l-lare 57 ities: geod one: 100 St	rccossiano-1 2 1111111111111111111111111111111111	Tree Zone: 50	Witten Control of Cont
Communities: Acad Serial Stages of Plan Communities: Mij General Health and Vitality of Plant Commun	<i>b-14.4c 5</i> ities: ga <i>ad</i> one: <u>joo</u> Sk : <u>л</u>	reccossions-1 rub Zone: 30 Diameter of Larges	Tree Zone: 50 st Snag (ft): 5"	April -
Communities: Acrol Serial Stages of Plan Communities: Mij General Health and Vitality of Plant Commun % Canopy Closure Herb Z	<i>b-14.4c 5</i> ities: ga <i>ad</i> one: <u>joo</u> Sk : <u>л</u>	rccossiano-1 2 1111111111111111111111111111111111	Tree Zone: 50	April 1 and 1 an

Total Acres	Total Habitat Score as Existing	
Site Number PU 12	Total Habitat Score as Existing	Total Acres
	72 1	
Site Location	Field Dates	Field Observers
WESTPORT SP	5 13/2021	GM JD
General Comments:	Physical Environment	
Hoslen Willow, She	N pur, Guts Poren	departing and a
	1	Description

Slope Orientation and degree of slope:

Н	abitat Component	1	Degree Preser	nt	Score	Comments	
	Quantity and Seasonality	None 0	Seasonal	Perennial 8	4	Portion of Site In n	
Water	Diversity Streams/Ponds/Etc.	None	Two 4	Three 8	2	Major Structures	
Wa	Proximity to Cover	None 0	Near 4	Adjacent	8		
	Quality Flushing	Stagnant 0	Seasonal 3	Continuous 6	0	List of Herb	
	Quantity and Seasonality	None 0	Limited 4	Year Rnd 8	4	Species: Species:	
Food	Variety	Low 0	Medium	High 8	4	List of Shrub	
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	species: separate	
	Structural Diversity	Low 0	Medium	High 8	4	motive.	
	Variety	Low 0	Medium 4	High 8	G	1000 COLUMN	
Cover	Seasonality	None 0	Limited	Year Rnd 4	2	Types of Plant	
	Nesting Denning, etc.	Low O	Medium 2	High 4	4	in the other official	
	Escape	Low 0	Medium 2	High 4	4	Serial Stages of Pli Communities	
	Physical Disturbance	Permanent 0	Temporary 2	None	4	and the still second D	
Other Values	Human Disturbance	High O	Medium 2	Kow	9.4 umm	Vitality of Plant Ci	
	Interspersion With Other Habitats	Low 0	Medium 3	High	6	S Canooy Closure	
. 0	Habitat Type	of Largest Sr	Diameter	4	20A1	Appe# of Snags Pi	
Unique Features	Flora	0	iergent %:	na 4	2	% Aquatic Veg Flor	
D B	Fauna	0	-	4	\mathcal{V}		

Site Number	Total Habit	at Score as	Existing	Total Acres	
PC 12	72				
	Weather on D		and a second d	100 A 1993	14
Precipitation: Dry		Wind S		6-5	
Cloud Cover: Go		Tempe	rature:	55	dest
Topography releting Description:		al Environm	ient	al Comments.	19/13
Slope Orientation and degree	of slope:				1000
Types of Water Features Present: Struth	Inse	An	Nun-	ahitar Compre Division d	ł]
Portion of Site Inundated:	50		-	a manuacheur	
Major Structures or Roads:			1000	o wind trough	
	none				
			-sacvit		1010
		P	1		
	adherint (action)	egetation	State 2	2201222	
List of Herb					
	y				
Species: Slarph Scr	s). Lande	5 Fusikat2	9 201		5
Species: Slargh Sca	a). Lande	5 Fusikat2	9 201	Appendances Appendances	11
Species: Slargh Sca	a). Lande	5 Fusikat2	9 201		01014
Species: Slow Sco List of Shrub Species: Hookors Willow	a). Lande	5 Fusikat2	9 201	ytilenosuo? ytinino ytinino http://www.actore.	101
Species: Slarp Sca List of Shrub Species: Hookors Willow	u, scotte	5 Fusikat2	9 201	Appendances Appendances	
Species: Slarp Sca List of Shrub Species: Hookors Willow	u, scotte	5 Fusikat2	2 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	villensees vinnes vinnes vinnes vinnes vinnes vinnes vinnes vinnes vinnes	01014
Species: Slarp Sca List of Shrub Species: Hookors Willow	u, scotte	5 Fusikat2	9 	ytilenosuo? ytinino ytinino http://www.actore.	
Species: Slarp Sca List of Shrub Species: Hockros Willow List of Tree Species: Shorp Pu	u, scotta	brez	100 100 100 0 0 0	Valences variaty Atomity of no- s and the sec- s zame and second vale	10
Species: Slarp Sca List of Shrub Species: Hookors Willow List of Tree Species: Sharp Pro	u, scotte	brez	100 100 100 0 0 0	forest	C 0/ 11.
Species: Slarp Sca List of Shrub Species: Hookors Willow List of Tree Species: Sharp Pro	u, scotta	brez	100 100 100 0 0 0	forest	(10, 11) (10, 11)
Species: Slarp Sca List of Shrub Species: Hookors Willow List of Tree Species: Sharp Pro	u, scotta	brez	100 100 100 0 0 0	forest	CD/817
Species: Slarp Sca List of Shrub Species: Hookros Willow List of Tree Species: Sharp pu Types of Plant Willow J Communities: Serial Stages of Plan	v, scotta	brez	100 100 100 0 0 0	forest	1.00.01
Species: Slarp Sca List of Shrub Species: Hookros Willow List of Tree Species: Sharp pu Types of Plant Willow J Communities: Serial Stages of Plan	, scotta	o broz	100 100 100 0 0 0	forest	1992
Species: Slage Sca List of Shrub Species: Hookors Willow List of Tree Species: Sharp pu Types of Plant Willow J Communities: Millow J	, scotta	brez	100 100 100 0 0 0	forest	100 F
Species: Slarp Sca List of Shrub Species: Hockers Willow List of Tree Species: Sharp put Types of Plant Willow J Communities: Millow J Serial Stages of Plan Communities: Millow J	suema	o broz	100 100 100 0 0 0	forest	10 JU 10 JU
Species: Slarp Sca List of Shrub Species: Hockers Willow List of Tree Species: Sharp put Types of Plant Willow J Communities: Millow J Serial Stages of Plan Communities: Millow J	suema	p broz	100 100 100 0 0 0	forest	CDV 1.
Species: Slarp Sca List of Shrub Species: Hockers Willow List of Tree Species: Sharp put Types of Plant Willow J Communities: Millow J Serial Stages of Plan Communities: Millow J	such bro	p broz	Dise	forest	Visitings
Species: Slarp Sca List of Shrub Species: Hockers Willow List of Tree Species: Sharp put Types of Plant Willow Communities: Millow Serial Stages of Plan Communities: Millow	suema goel	o bron	Dise	forest	Witness C. C. G. G. C.
Species: Slarp Sca List of Shrub Species: Hookors Willow List of Tree Species: Sharp Pro Types of Plant Willow J Communities: Millow J Serial Stages of Plan Communities: Millow J General Health and Vitality of Plant Communities: % Canopy Closure Herb Zone:	subt bro subt bro such bro such Goel GO Shruk	20ne: 7	Dipe	Forest Tree Zone: 25	C.D. H.
Species: Slarp Sca List of Shrub Species: Hookros Willow List of Tree Species: Sharp put Types of Plant Willow J Communities: Millow J Serial Stages of Plan Communities: Millow J	c, scotte c cubr bro sucur goel 60 Shruk	Zone: 7	Dipe	Forest Tree Zone: 25	CDV 0.

Total Habitat Score as Existing	Total Acres
36	
Field Dates	Field Observers
5/3/21	GM+JDB
olines grassbarels Shar	ap.no
. 0	
•	Field Dates 5/3/21 Incs/grassharels/shar

H	abitat Component		Degree Preser	Score	Comments	
	Quantity and Seasonality	Hone	Seasonal 4	Perennial 8	0	No water
Water	Diversity Streams/Ponds/Etc.	None	Two 4	Three 8	Z	al mit la caine :
Wa	Proximity to Cover	None	Near 4	Adjacent 8	0	
	Quality Flushing	Stagnant	Seasonal 3	Continuous 6	2	· · · · · · · · · · · · · · · · · · ·
	Quantity and Seasonality	None O	Limited	Year Rnd 8	4	Plant berries
Food	Variety	tow	Medium 4	High 8	0	
	Proximity to Cover	None 0	Near 4	Adjacent 8	8	aluside de Late s L'encientes
	Structural Diversity	Low	Medium 4	High 8	0	Evenstially Sust shubs
	Variety	Low 0	Medium	High 8	4	Sastional Precis
Cover	Seasonality	None 0	Limited 2	Year Rnd	9	
	Nesting Denning, etc.	Low 0	Medium 2	High 4	2	Constanting and
	Escape	Low 0	Medium 2	High	4	and the second
	Physical Disturbance	Permanent 0	Temporary	None 4	2	From historic w
Other Values	Human Disturbance	High	Medium 2	Low 4	\mathcal{O}	NATION LOANS
	Interspersion With Other Habitats	Low			C	
a S	Habitat Type	0	1.1	4	3	Potential for restandion
Unique Features	Flora	0		4	S	rastandiph
- E	Fauna	- 0 -		4	(

Site Number	Total Habitat Score as Existing	Total Acres
PC# 13	36	
V	Veather on Day of Field Observati	on
Precipitation: Dra	Wind Speed: 5	-1.0
Cloud Cover:	Temperature:	60

	Physical	Environment	
Topography Tolling Simila	larea	in Florts	abbutting brago
Description:	20	50000	
- oline -			
Slope Orientation and degree of slope:	0-5	6	
Types of Water			
Features Present: Mone			
Portion of Site Inundated: M/A			
Major Structures or Roads:			
	Veg	etation	
List of Herb Species: The grasses			
Species: Whe granges			
0			
List of Shrub		11	
Species: Soffic broom, 6	vara	on Huddele	ologiny
List of Tree Species: Share por me			
species:			
Types of Plant			
Types of Plant Communities: Starls hould aline long	dom	, matcat a	-tishopod
		\mathcal{I}	
the brot			
Serial Stages of Plan		Λ <i>I</i>	
Communities: M.J-50	16 CE	ional	
General Health and			
Vitality of Plant Communities:			
% Canopy Closure Herb Zone: 60	Shrub Zo	one: 60	Tree Zone:
Appx # of Snags Per Acre:		iameter of Larg	
% Aquatic Veg Floating:	Emerger		Inundated %: 〇

Appendix D Point Count Field Data

Survey Date	5/12/2021
Station ID	PC#01
Start Time	7.05 an
End Time	7:15

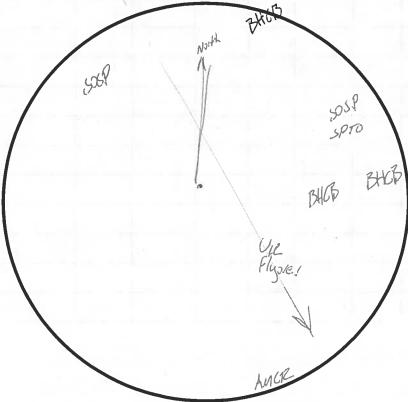
Surveyors (Primary First)

i.

Glan Mazin SD Brooks 50° 5-10 mph, 80% aver cast

Weather

Мар	Primary?	Species		Numbe	er of Birds		Audio/	Distance	Desiles	
Code		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1		SUSP	1				A	40	30°	
2		SPTO	1			.	A	43	300	1 1
3		BHCB	1			1	A	50	100	4
4		BACB	1			1	A	50	12	1
5		UR	1			1	V			Fluover
6		ANCTZ	1			1	V	50	160)
7		BHCB	Z	2			V	55	30	25
8		SOSP	1			1	V	40	310	
9										
10				1				· ·		



Map Species	Species		Numbe	er of Birds		Audio/ Visual Distance	Beering	Commonte	
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12									
13									
14								<u> </u>	
15									
16									
17									
18			-						
19									
20									
21									A.L
22									
23				_			1		
24									
25									
26									
27									
28									
29									
30									
31									
32					-				
33									
34									
35									
36									
37									

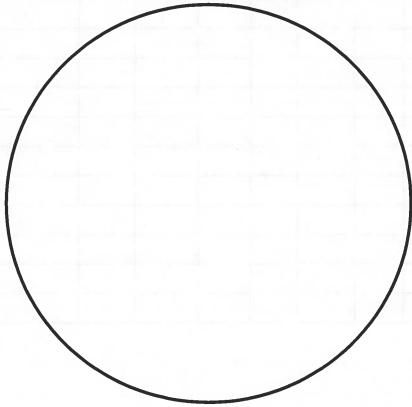
Survey Date	5/12/2021	Surveyors (Primary First)	Glen Merin
Station ID	1KH22		JB Drakes
Start Time	748	Weather	55 80% 5-10
End Time	758		, ,

Map Primary?	Species	Species Number of Birds				Audio/	Distance			
Code		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1		AMB	1				V	10	230	
2	1	BHCB	B	2	1		V	35	342	1
3	1	Flycotcher				1	V	50	98	Silphuetted, no sona
4		16 WA	1	1		T.	A	35	352	
5		ANAU	1			1	V	35	53	1 (m.25)
6		DMRD	3			3	\checkmark	35	62	
7	\checkmark	ANHU	Z		2		V	20	2.48	
8	V	WAILI		ili -		\	A	30	40	1
9		HOFJ	2		2		V	10	40	
10		DCCH	Z			2	A	25	1812	

Species	- Charly and	Numbe	er of Birds		Audio/	Beering	Comments	
Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
BCCH	3			3	A	15.	268	
	1			1		15		
000070						-		
		CodeTotalBCCH3	CodeTotalMaleBCCH3	CodeTotalMaleFemaleBCC H3	CodeTotalMaleFemaleUnk.BCCH33	CodeTotalMaleFemaleUnk.VisualBCCH33A	CodeTotalMaleFemaleUnk.VisualDistanceBCCH33415'	CodeTotalMaleFemaleUnk.VisualDistanceBearingBCC H33A15'26 gray

Survey Date	5 (13/202)	Surveyors (Primary First) <u>Geom Maria</u>
Station ID	PC#03	JD Brooks
Start Time	8.17	Weather 55 80% cloud, 5-10 W.
End Time	\$27	

Map Code	Primary?	Species Code	Number of Birds				Audio/	Distance	Desides	
			Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1		Bett	3			3	V	20	152	
2	\checkmark	PUF?	1	1			AIV	20	188	
3	\checkmark	ORCW	1		1		V	10	202	
4		BACB	1			1	V	30	78	
5		ANHU	1				V	10	172	
6	\checkmark	AMRO	8			2	V	30	130	
7	•	SPTO	ļ			1	A	50	82	IS IS
8		BHCB	l	1		1				Fly over
9		BCB	2	2	1		V	30	224)
10		2CWA	1)		V	15	348	

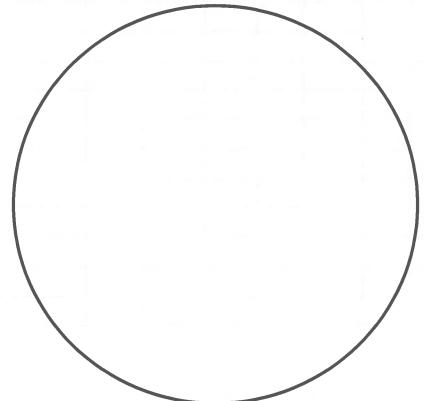


Map Code	Species Code		Numbe	er of Birds		Audio/	Distance		
		Total	Male	Female	Unk.	Visual		Bearing	Comments
11									
12									
13						-			
14									
15								<u> </u>	
16									
17									
18									
19									
20									
21		-							
22									
23									
24									
25								· · · · · · · · · · · · · · · · · · ·	
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									

Survey Date	5/2/2071	1.19
Station ID	PC#04	
Start Time	852	
End Time	902	

Surveyors (Primary First)	Glan Mazia
Weather	30 Brooks 55, 80 15, 5-10

Map Primary?	Primary?	Species		Numbe	er of Birds	R. Car	Audio/	Distance	Deside	Comments
Code		Code	Total	Male	Female	Unk.	Visual		Bearing	
1		BUCH	3			3	A	20	20	
2		SPTO	1			1	A	2.5	28	
3	1	STJA	1			1	A	50	60	
4		STJA	ł			1	A	50	120	10
5		ANHU	1			1	V	35	4	
6		GCKI	/			1	A	50	38	
7		RIFI	1			- 1	1	50	8	
8										
9								TT.		25
10			-							6



Map Species			Numbe	er of Birds	1995 (PALO)	Audio/	Distance	Popring	Comments
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26						-			
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37					1	1			

1

Survey Date	5/18/2021	Surveyors (Primary First)	_GEN Main
Station ID	90405		SD Proentis
Start Time	918	Weather	D-5 60% 55°
End Time	928	-) (

Map	Primary?	Species	Chief and	Numbe	er of Birds		Audio/ Visual	Distance		Comments
Code		Code	Total	Male	Female	Unk.			Bearing	
1	\checkmark	SPTO	(A	20	132	
2		BHCB					A	20	172	1
3		AMCR	1			1	V			Flu pred
4		AMCR	1			1	V			Fly over
5		BUTI	1			1	V	5	330	3
6		BCCH	5			3	V	10	328	1
7		OCWA	(1			V	10	20	·
8		BHGB	2			Z	A	CS	42	
9		VEWA	1				A	20	222	24
10										25

Мар	Species	Part and the	Numbe	er of Birds		Audio/	Dist	Dest	Comments
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12			-						
13			-						
14									
15									
16									5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
17									
18									
19									
20				_			-		
21						-			
22									
23									The first frances of the second s
24									
25									
26									
27									
28									
29									
30									- CAPP - 11 - 12
31									
32									
33						_			
34									
35						-			
36									
37									

Survey Date	5/12/2
Station ID	PG#06
Start Time	9:50
End Time	10:00

Surveyors (Primary First)

i÷

<u>Glan Majin</u> <u>30 Droaks</u> 0-5, 55, 60%

Weather

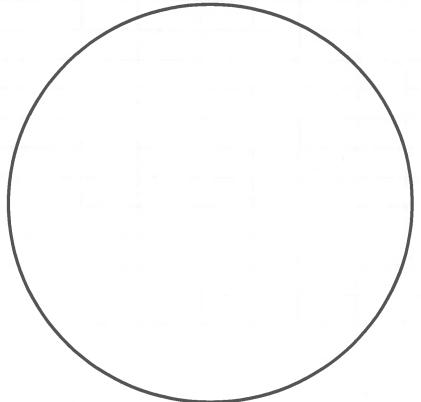
Мар	Primary?	Species		Numbe	er of Birds		Audio/	Distance	Dearline	
Code		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1	./	SPTO	1			1	A	20	132	
2		SOSP	1			1	A	20	324	
3		PAWR	1			1	V	15	310	
4		BEH	2	1.		2	A	10	98	
5		ANHU	1			1	ν	10	84	
6	INEG	Catt 3	2			2	\checkmark			Flupver
7		BHCB	Î			1	A	15	300	
8	\checkmark	AMOR	1			1	V			Flyover
9		CHCH	2			2	V	5	326	
10										

Map Species	Species		Numbe	er of Birds		Audio/	Distance	Dessing	Comments
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12									4
13									
14									
15									
16									
17									
18									
19			+						
20									
21									
22			1						
23									
24									
25									
26									
27					-				
28									
29			-						
30									
31									
32									
33									
34									
35									
36									
37									

Survey Date	5/13/21
Station ID	Pottor
Start Time	646
End Time	656

Surveyors (Primary First) <u>Clam Maza</u> JJD Brooks Weather <u>Journal Overast</u>, 0-5, 55 Dewn

Map Code	Primary?	Species		Numbe	er of Birds	and the second	Audio/	Distance	Desite	
		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1	\checkmark	Cove	1	J			A	50	128	
2		WOSP	1	1			A	50	42	
3		SUP	1			1	V	40	92	
4		Gull sp.	1			1	V		118	Fly aver
5		AMCR	1			1	1/		314	Flinoves
6										1,9
7										
8										
9										
10										



Мар	Species		Numbe	er of Birds	States -	Audio/	Distance	Destine	Comments
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12									
13									
14									
15			-						
16									
17									
18									
19			-						
20									
21									
22									
23									
24				-					
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36						_			
37								-	

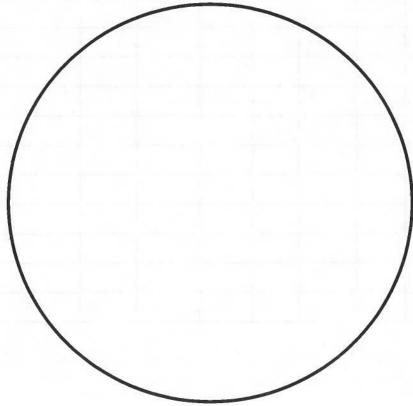
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Survey Date	5/13/21
Station ID	PC#08
Start Time	7:08
End Time	7.18

Surveyors (Primary First)

Glon Maria JD Bracks 100%, 55, Deway Weather 5

Мар	Primary?	Species	- the second	Numbe	er of Birds	a trailer?	Audio/	Distance	Desident	
Code		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1		WE	1	i			A	40	220	
2		RWBB	((A	40	302	1. 1. 1. 1
3		BHCB	S			2	V	40	248	
4		EWBB	1	1			\checkmark	40	328	
5		RHBB	١	-)			V	40	150	
6		SPTO	1			1	V	40	260	
7		SPTO	1			1	A	40	134	1 4
8		AMAD	2.			2	V		278	Flyover
9		WESP	1	1			A	50	50	
10		MAWR	1			1	V	10	302	



Map Specie	Species		Numbe	er of Birds		Audio/	2	Destine	
Code	Code	Total	Male	Female	Unk.	Audio/ Visual	Distance	Bearing	Comments
11									
12									
13									
14									
15									
16									
17									
18									
19			-						
20									
21									
22									
23									
24									
25									
26						-			
27						-			
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									1

Survey Date	PC409	74
Station ID	5/13/21	Z)
Start Time	901	
End Time	911	

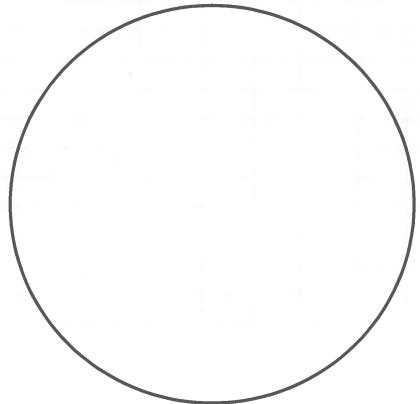
Surveyors (Primary First) Glon Mazin 55 Breaks Weather 2-5 Dawy, 70%; 55

Мар	Primary?	Species	8450A.0	Numbe	er of Birds		Audio/	Distance		
Code	1	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1		MALD	Z	1	1		V	15	230	
2	\checkmark	SPTD	1				A	30	258	91.
3		BHCB	1				V		160	Fluover
4		WESP	1				A	35	R	3000
5		AMRO	1			1			238	Flysva /
6		Buch	/			/	A	435	252	
7		BACIS	t	1			V	25	60	
8		WA s	p.	2		1	V	30	266	
9		AMOR	1			/	V		240	FLOOR
10		AMRS	2			2	V		138	Fligover (Fligover

Map Sp	Species	Sec. 1	Numbe	er of Birds		Audio/	Distance	Roosing	Commente
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12									
13									
14									
15									
16									
17				-					
18									
19									
20									
21									
22									
23									
24									
25									
26									
27			-						
28									
29			-		-				
30									
31									
32									
33									
34								-	
35									
36									
37									

Survey Date	5/18/37	(Primary First) De Glan Mai, and	
Station ID	PC#10	SD Brooks	Ī
Start Time	308	Weather 100%, 0-5, Mosting	
End Time	818		

Primary?	Species		Numbe	er of Birds		Audio/ Visual	Distance	Pearing	
	Code	Total	Male	Female	Unk.			Bearing	Comments
	AMG(1				V	30	212	
1	SPTO	1			1	A	35	188	
	Wasp	1			1	A			
V	AMRO	1			1	\checkmark			FLOVER
	ANAU	1	1			A	35	288	3.21
GLGE	Gutter	(1	V		90	Flyard
	SOSP	(1	V	30	214	
	SPTO	1				A	40	322	
						1			
	V V	Code AMG(· SPTO WCSP V RIMRO AWHU VGLCU GUILLE	CodeTotalVAMG(*1VSPTO1WCSP1VAMRO1VAWHU1VGLCUSHERT1	CodeTotalMaleImage: Application of the second se	Code Total Male Female Image: AmG(* I Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(* Image: AmG(* Image: AmG(* Image: SPTO Image: AmG(* Image: AmG(*	CodeTotalMaleFemaleUnk.AmG(*111SPTO111WCSP111MMRO111MMRO111MMRO11111111	CodeTotalMaleFemaleUnk.VisualAmG(*11 </td <td>CodeTotalMaleFemaleUnk.VisualDistance$\checkmark$$AmG(\cdot)11\checkmark30\checkmark$$SPTO1\checkmark1A35WCSP1\checkmark1A35\lor$$VGP1\checkmark1A40\checkmark$$MmRO1\checkmark1\checkmark40\checkmark$$MmRO1\checkmark1\checkmark40\checkmark$$MMRO1\checkmark$$\checkmark35\lor$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\checkmark$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$MMRO1\checkmark$$\checkmark$$\checkmark$$\land$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\land$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\land$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\land$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\land$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\checkmark$$\land$<</td> <td>CodeTotalMaleFemaleUnk.VisualDistanceBearing$\checkmark$$AmG(\cdot)11\checkmark$$\checkmark$$\Im$$\Im$$\Im$$\Im$$\Im$$\Im$$\checkmark$$SPTO111A$$35$188$WCSP111A$$40$$242$$\checkmark$$MmRO111\checkmark198\checkmark$$MMRO11A$$356$$2886$$\lor$$OLCU$$\square1\checkmark90\Box$$\Box1\checkmark$$\Im$$\Im$$214$</td>	CodeTotalMaleFemaleUnk.VisualDistance \checkmark $AmG(\cdot)$ 11 \checkmark 30 \checkmark $SPTO$ 1 \checkmark 1 A 35 $WCSP$ 1 \checkmark 1 A 35 \lor VGP 1 \checkmark 1 A 40 \checkmark $MmRO$ 1 \checkmark 1 \checkmark 40 \checkmark $MmRO$ 1 \checkmark 1 \checkmark 40 \checkmark $MMRO$ 1 \checkmark \checkmark 35 \lor $MMRO$ 1 \checkmark \checkmark \checkmark \land $MMRO$ 1 \checkmark \checkmark \checkmark \checkmark $MMRO$ 1 \checkmark \checkmark \checkmark \land \checkmark \checkmark \checkmark \checkmark \checkmark \land <	CodeTotalMaleFemaleUnk.VisualDistanceBearing \checkmark $AmG(\cdot)$ 11 \checkmark \checkmark \Im \Im \Im \Im \Im \Im \checkmark $SPTO$ 111 A 35 188 $WCSP$ 111 A 40 242 \checkmark $MmRO$ 111 \checkmark 198 \checkmark $MMRO$ 11 A 356 2886 \lor $OLCU$ \square 1 \checkmark 90 \Box \Box 1 \checkmark \Im \Im 214



Map Sp	Species			er of Birds		Audio/	Distance	Booring	Comments
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	comments
11									
12									
13									
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18							· · · · ·		
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21					+				
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31		-							
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34									
35									
36							-		
37									

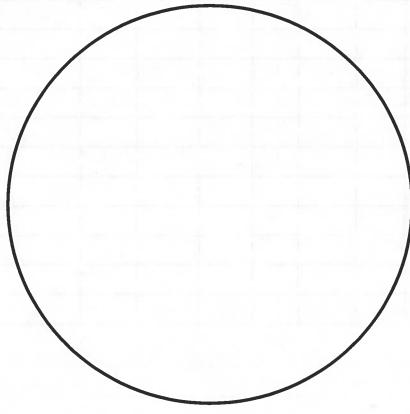
Survey Date Station ID Start Time

Survey Date	5/13/21
Station ID	PCH 11
Start Time	931
End Time	741

Surveyors (Primary First)

Glon Mejon JD Brooks -70%, Diwa 2-5 55 Weather

Мар	Primary?	Species		Numbe	er of Birds		Audio/	Dia		
Code		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1	~	AMCR	1			1	A	50	120	
2		BACB	1				A	40	178	1
3	1	GM120				1	A	40	340	
4		GUI SP	1				V		252	Flaver
5		AMGR	(1		1	V	L.T	250	Flyover
6		BACB]			1	A	30	102	Junio
7		BCCLI	1			1	A	30	22	
8		AMCR	5			2	V		190	flyove (
9							V.)-101
10										1.1.1



Map	Species			er of Birds		Audio/ Distance	Beering	Comments	
Code	Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
11									
12									
13									
14									
15									
16									3
17									
18									
19									
20									
21									
22									
23									
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27									
28									
29									
30									
31									
32		-							
33			1						
34									
35									
36									
37									

Date Station ID Start Time End Time

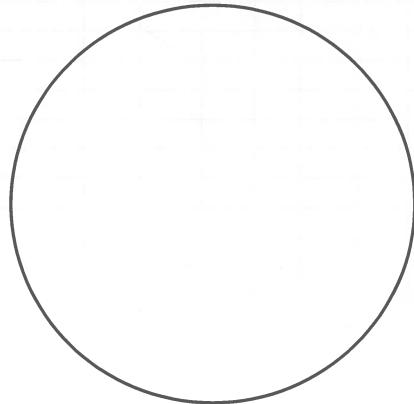
Survey

r1.2 121	
5/13/31 90#12	-
938	-
848	

Surveyors (Primary First)

Gen Mejia 30 prosiki Mi-Stu, Weather 55 70% 0-5

Map Pri Code	Primary?	Species		Numbe	er of Birds		Audio/	Distance	Deal	
		Code	Total	Male	Female	Unk.	Visual	Distance	Bearing	Comments
1		SPTO	1			1	AN	10	314	
2		RUHU		I)	V	10	280	
3		0546)			1	V	10	281	
4		chch	1			1	V	20	222	1
5		AMGO	2	1	1		V	35		August
6		600	2				V		290	Flugover
7		BASW	1			1	V	90	2.48	3
8		SUOP	١			1	V	30	340	
9		SUO P GUINP	1	-		1			262	Elumos 1
10		Amro	1			1	V	15	258	Elyover



Map	Species	-	Numbe	er of Birds		Audio/ Distant	Dista		
Code	Code	Total	Male	Female	Unk.	Visual	Distance		Comments
11	AMGF	5	i	1		\checkmark		290	Fluover
12	ANCES	1			1	\checkmark		310	Flyover
13									<u> </u>
14						-			
15									
16									
17									
18									
19									
20			1						
21									
22									
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37									

Appendix E USFWS Species List

IPaC Information for Planning and Consultation U.S. Fish & Wildlife Service

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

Grays Harbor 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

http://www.fws.gov/wafwo/

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 species¹ 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 Fisheries²).

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. IPaC only shows species that are regulated by USFWS (see FAQ).
- 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:

https://ecos.fws.gov/ipac/location/TI5WPEIIHVAANHLDTOAOPBVTVM/resources

STATUS
Threatened
Endangered
Threatened
Threatened
Threatened e.
STATUS
Threatened
STATUS

Threatened

Oregon Silverspot Butterfly Speyeria zerene hippolyta

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available. <u>https://ecos.fws.gov/ecp/species/6930</u>

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 Act¹ and the Bald and Golden Eagle Protection Act².

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>

conservation-measures.php

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 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

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BREEDING SEASON (IF A BREEDING SEASON IS

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

	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	Breeds Jan 1 to Sep 30
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	
Black Oystercatcher Haematopus bachmani This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9591</u>	Breeds Apr 15 to Oct 31
Black Turnstone Arenaria melanocephala This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Black-footed Albatross Phoebastria nigripes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8033</u>	Breeds elsewhere

Clark's Grebe Aechmophorus clarkii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan
Great Blue Heron Ardea herodias fannini This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs the continental USA	Breeds Ma s) in
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 else
Long-billed Curlew Numenius americanus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/5511</u>	Breeds else
Marbled Godwit Limosa fedoa This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9481</u>	Breeds else
Olive-sided Flycatcher Contopus cooperi This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3914</u>	Breeds Ma
Pink-footed Shearwater Puffinus creatopus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds else
Red-throated Loon Gavia stellata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds else

n 1 to Dec 31

lar 15 to Aug 15

sewhere

lsewhere

sewhere

lay 20 to Aug 31

sewhere

sewhere

JI

Alaska.

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Breeds Apr 15 to Jul 15

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

Rufous Hummingbird selasphorus rufus

Scripps's Murrelet Synthliboramphus scrippsi

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

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

Semipalmated Sandpiper Calidris pusilla

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

Short-billed Dowitcher Limnodromus griseus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480

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

Willet Tringa semipalmata

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 (

Breeds Feb 20 to Jul 31

Breeds elsewhere

Breeds elsewhere

Breeds elsewhere

Breeds elsewhere

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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 ()

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.

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

<u>Nationwide Conservation Measures</u> 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

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breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> 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 (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, 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: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. 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).

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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</u> <u>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</u> <u>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 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.

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.S. Army Corps of Engineers District.

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 WETLAND

<u>E2EM1P</u> E2USN

FRESHWATER EMERGENT WETLAND

PEM1C

FRESHWATER FORESTED/SHRUB WETLAND

PFO1C PSS/EM1C PSS1C

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

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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.

Appendix F Wildlife Species that May Occur in Westport Light State Park

The following table includes wildlife species that may occur within WLSP that were not observed during the 2021 field surveys. These results are based on publicly reported wildlife sightings (iNaturalist 2021, eBird 2021), state and federal wildlife resources (USFWS 2021, WDFW 2021a), and wildlife inventories associated with the nearby Willapa National Wildlife Refuge (USFWS 2011). Species provided by iNaturalist, eBird, USFWS IPaC, and the WDFW PHS Mapper were limited to mapped observations within roughly 1 mile of the WLSP boundary. iNaturalist observations were filtered to include only "verified" and/or "research grade" observations. This list should not be considered comprehensive but rather a generalized list based on species assumed to be present in the area. Many of the species included here are assumed present in WLSP due to their presence in nearby areas, and several of the resources used in its development may favor species that are easily observed/reported by the public. Some species listed below may not typically use the habitats provided by WLSP, but they are included below due to past sightings recorded by sources like iNaturalist and eBird. These sightings may include birds seen offshore that were attributed to WLSP, as it may have been the closest eBird hotspot.

Common Name	Scientific Name	Source
Amphibians		
Bullfrog	Rana catesbeiana	USFWS 2011
Columbia Torrent Salamander	Rhyacotriton kezeri	USFWS 2011
Cope's Giant Salamander	Dicamptodon copei	USFWS 2011
Dunn's Salamander	Plethodon dunni	USFWS 2011
Ensatina	Ensatina eschscholtzii	USFWS 2011
Northern Pacific Treefrog	Pseudacris regilla	iNaturalist
Northern Red-legged Frog	Rana aurora	iNaturalist
Northwestern Salamander	Ambystoma gracile	USFWS 2011
Rough-skinned Newt	Taricha granulosa	USFWS 2011
Tailed Frog	Ascaphus truei	USFWS 2011
Van Dyke's Salamander	Plethodon vandykei	USFWS 2011
Western Red-backed Salamander	Plethodon vehiculum	USFWS 2011
Western Toad	Bufo boreas	USFWS 2011
Reptiles		
Common Garter Snake	Thamnophis sirtalis	iNaturalist
Birds		•
American Bittern	Botaurus lentiginosus	eBird 2021; USFWS 2011
American Coot	Fulica americana	eBird 2021; iNaturalist 2021; USFWS 2011

Common Name	Scientific Name	Source
American Kestrel	Falco sparverius	eBird 2021; USFWS 2011
American Pipit	Anthus rubescens	eBird 2021; USFWS 2011
American White Pelican	Pelecanus erythrorhynchos	eBird 2021
American Wigeon	Mareca americana	eBird 2021; USFWS 2011
Ancient Murrelet	Synthliboramphus antiquus	eBird 2021
Arctic Tern	Sterna paradisaea	USFWS 2011
Ash-throated Flycatcher	Myiarchus cinerascens	USFWS 2011
Baird's Sandpiper	Calidris bairdii	eBird 2021; USFWS 2011
Band-tailed Pigeon	Patagioenas fasciata	eBird 2021; iNaturalist 2021; USFWS 2011
Barn Owl	Tyto alba	eBird 2021; USFWS 2011
Barred Owl	Strix varia	eBird 2021; USFWS 2011
Barrow's Goldeneye	Bucephala islandica	eBird 2021
Bar-Tailed Godwit	Limosa lapponica	eBird 2021; USFWS 2011
Belted Kingfisher	Megaceryle alcyon	eBird 2021; iNaturalist 2021; USFWS 2011
Bewick's Wren	Thryomanes bewickii	eBird 2021; iNaturalist 2021; USFWS 2011
Black Oystercatcher	Haematopus bachmani	eBird 2021
Black Phoebe	Sayornis nigricans	eBird 2021
Black Scoter	Melanitta americana	eBird 2021; USFWS 2011
Black Tern	Chlidonias niger	eBird 2021
Black Turnstone	Arenaria melanocephala	eBird 2021; iNaturalist 2021; USFWS 2011
Black-bellied Plover	Pluvialis squatarola	eBird 2021; iNaturalist 2021; USFWS 2011
Black-footed Albatross	Phoebastria nigripes	eBird 2021; USFWS 2011
Black-legged Kittiwake	Rissa tridactyla	eBird 2021; USFWS 2011
Black-Scoter	Melanitta americana	eBird 2021
Blue Jay	Cyanocitta cristata	eBird 2021
Blue-winged Teal	Spatula discors	eBird 2021; USFWS 2011
Bobolink	Dolichonyx oryzivorus	eBird 2021
Bonaparte's Gull	Chroicocephalus philadelphia	eBird 2021; USFWS 2011
Brambling	Fringilla montifringilla	eBird 2021
Brandt's Cormorant	Phalacrocorax penicillatus	eBird 2021; iNaturalist 2021; USFWS 2011

Common Name	Scientific Name	Source
Brant	Branta bernicla	eBird 2021; iNaturalist 2021; USFWS 2011
Brewer's Blackbird	Euphagus cyanocephalus	eBird 2021; iNaturalist 2021; USFWS 2011
Bristle-thighed Curlew	Numenius tahitiensis	eBird 2021
Brown Booby	Sula leucogaster	eBird 2021
Brown Creeper	Certhia americana	eBird 2021; USFWS 2011
Brown Pelican	Pelecanus occidentalis	eBird 2021; iNaturalist 2021; USFWS 2011
Bufflehead	Bucephala albeola	eBird 2021; iNaturalist 2021; USFWS 2011
Buller's Shearwater	Ardenna bulleri	eBird 2021; USFWS 2011
Bullock's Oriole	lcterus bullockii	eBird 2021
Cackling Goose	Branta hutchinsii	eBird 2021; iNaturalist 2021; USFWS 2011
California Gull	Larus californicus	eBird 2021; iNaturalist 2021; USFWS 2011
California Scrub-jay	Aphelocoma californica	eBird 2021
Canada Goose	Branta canadensis	eBird 2021; iNaturalist 2021; USFWS 2011
Canvasback	Aythya valisineria	eBird 2021; USFWS 2011
Caspian Tern	Hydroprogne caspia	eBird 2021; iNaturalist 2021; USFWS 2011
Cassin's Auklet	Ptychoramphus aleuticus	eBird 2021; USFWS 2011
Cassin's Vireo	Vireo cassinii	eBird 2021; USFWS 2011
Cedar Waxwing	Bombycilla cedrorum	eBird 2021; iNaturalist 2021; USFWS 2011
Chipping Sparrow	Spizella passerina	eBird 2021; USFWS 2011
Cinnamon Teal	Spatula cyanoptera	eBird 2021; USFWS 2011
Clark's Grebe	Aechmophorus clarkii	eBird 2021; iNaturalist 2021
Cliff Swallow	Petrochelidon pyrrhonota	eBird 2021; USFWS 2011
Common Eider	Somateria mollissima	eBird 2021
Common Goldeneye	Bucephala clangula	USFWS 2011
Common Merganser	Mergus merganser	eBird 2021; USFWS 2011
Common Murre	Calidris mauri	eBird 2021; iNaturalist 2021; USFWS 2011
Common Nighthawk	Chordeiles minor	eBird 2021; USFWS 2011
Common Raven	Corvus corax	eBird 2021; USFWS 2011
Common Tern	Sterna hirundo	eBird 2021; USFWS 2011
Cooper's Hawk	Accipiter cooperii	eBird 2021; USFWS 2011
Dickcissel	Spiza americana	eBird 2021

Common Name	Scientific Name	Source		
Downy Woodpecker	Dryobates pubescens	eBird 2021; USFWS 2011		
Eared Grebe	Podiceps nigricollis	eBird 2021		
ElegantTern	Thalasseus elegans	eBird 2021		
Emperor Goose	Anser canagicus	iNaturalist 2021; USFWS 2011		
Eurasian Collared Dove	Streptopelia decaocto	eBird 2021; iNaturalist 2021; USFWS 2011		
Eurasian Wigeon	Anas penelope	USFWS 2011		
European Starling	Sturnus vulgaris	eBird 2021; iNaturalist 2021; USFWS 2011		
Evening Grosbeak	Coccothraustes vespertinus	eBird 2021; USFWS 2011		
Flesh-footed Shearwater	Ardenna carneipes	eBird 2021		
Fork-tailed Storm-Petrel	Hydrobates furcatus	eBird 2021; USFWS 2011		
Forster's Tern	Sterna forsteri	eBird 2021		
Fox Sparrow	Passerella iliaca	eBird 2021; iNaturalist 2021; USFWS 2011		
Gadwall	Mareca strepera	iNaturalist 2021; USFWS 2011		
Glaucous-winged Gull	Larus glaucescens	eBird 2021; USFWS 2011heema		
Gray Jay	Perisoreus canadensis	USFWS 2011		
Great Blue Heron	Ardea herodias	eBird 2021; iNaturalist 2021; USFWS 2011		
Great Egret	Ardea alba	eBird 2021; USFWS 2011		
Great Horned Owl	Bubo virginianus	USFWS 2011		
Greater Scaup	Aythya marila	USFWS 2011		
Greater White-fronted Goose	Anser albifrons	eBird 2021; USFWS 2011		
Greater Yellowlegs	Tringa melanoleuca	eBird 2021; iNaturalist 2021		
Green Heron	Butorides virescens	eBird 2021; USFWS 2011		
Green-winged Teal	Anas crecca	eBird 2021; USFWS 2011		
Guadalupe Murrelet	Synthliboramphus hypoleucus	eBird 2021		
Gyrfalcon	Falco rusticolus	iNaturalist 2021; USFWS 2011		
Hairy Woodpecker	Dryobates villosus	eBird 2021; USFWS 2011		
Hammond's Flycatcher	Empidonax hammondii	USFWS 2011		
Harlequin Duck	Histrionicus histrionicus	eBird 2021; USFWS 2011		
Harris's Sparrow	Zonotrichia querula	eBird 2021		
Heermann's Gull	Larus heermanni	eBird 2021; iNaturalist 2021; USFWS 2011		

Common Name	Scientific Name	Source
Hermit Thrush	Catharus guttatus	eBird 2021; iNaturalist 2021; USFWS 2011
Hooded Merganser	Lophodytes cucullatus	eBird 2021; iNaturalist 2021; USFWS 2011
Horned Grebe	Podiceps auritus	eBird 2021; iNaturalist 2021; USFWS 2011
Horned Lark	Eremophila alpestris	eBird 2021
Horned Lark	Eremophila alpestris	eBird 2021
Horned Puffin	Fratercula corniculata	eBird 2021
House Sparrow	Passer domesticus	eBird 2021; iNaturalist 2021; USFWS 2011
Hudsonian Godwit	Limosa haemastica	iNaturalist 2021
Hutton's Vireo	Vireo huttoni	eBird 2021; USFWS 2011
Iceland Gull	Larus glaucoides	eBird 2021
King Eider	Somateria spectabilis	eBird 2021
Lapland Longspur	Calcarius lapponicus	eBird 2021; USFWS 2011
Lazuli Bunting	Passerina amoena	eBird 2021
Leach's Storm-Petrel	Hydrobates leucorhous	eBird 2021; USFWS 2011
Least Sandpiper	Calidris minutilla	eBird 2021; iNaturalist 2021; USFWS 2011
Lesser Scaup	Aythya affini	USFWS 2011
Lesser Yellowlegs	Tringa flavipes	eBird 2021; USFWS 2011
Lincoln's Sparrow	Melospiza lincolnii	eBird 2021; iNaturalist 2021; USFWS 2011
Long-Billed Curlew	Numenius americanus	eBird 2021; USFWS 2011
Long-billed Dowitcher	Limnodromus scolopaceus	eBird 2021; USFWS 2011
Long-tailed Duck	Clangula hyemalis	eBird 2021; USFWS 2011
Long-tailed Jaeger	Stercorarius longicaudus	eBird 2021; USFWS 2011
Macgillivray's Warbler	Oporornis tolmiei	USFWS 2011
Manx Shearwater	Puffinus puffinus	eBird 2021; USFWS 2011
Marbled Godwit	Limosa fedoa	eBird 2021; iNaturalist 2021; USFWS 2011
Marbled Murrelet	Brachyramphus marmoratus	eBird 2021; USFWS 2011
Merlin	Falco columbarius	eBird 2021; USFWS 2011
Mountain Chickadee	Poecile gambeli	eBird 2021
Mourning Dove	Zenaida macroura	eBird 2021; USFWS 2011
Northern Bobwhite	Colinus virginianus	USFWS 2011

Common Name	Scientific Name	Source
Northern Fulmar	Fulmarus glacialis	eBird 2021; USFWS 2011
Northern Goshawk	Accipiter gentilis	USFWS 2011
Northern Harrier	Circus hudsonius	eBird 2021; USFWS 2011
Northern Pintail	Anas acuta	eBird 2021; iNaturalist 2021; USFWS 2011
Northern Pygmy Owl	Glaucidium gnoma	USFWS 2011
Northern Rough-winged Swallow	Stelgidopteryx serripennis	eBird 2021; USFWS 2011
Northern Saw-whet Owl	Aegolius acadicus	USFWS 2011
Northern Shoveler	Spatula clypeata	eBird 2021; USFWS 2011
Northern Shrike	Lanius borealis	eBird 2021; USFWS 2011
Northern Wheatear	Oenanthe oenanthe	eBird 2021
Olympic Gull	Larus glaucescens × occidentalis	iNaturalist 2021
Pacific Golden-plover	Pluvialis fulva	eBird 2021
Pacific Loon	Gavia pacifica	eBird 2021; USFWS 2011
Palm Warbler	Setophaga palmarum	eBird 2021; USFWS 2011
Parasitic Jaeger	Stercorarius parasiticus	eBird 2021; USFWS 2011
Pectoral Sandpiper	Calidris melanotos	eBird 2021; USFWS 2011
Pelagic Cormorant	Phalacrocorax pelagicus	eBird 2021; iNaturalist 2021; USFWS 2011
Peregrine Falcon	Falco peregrinus	eBird 2021, iNaturalist 2021; USFWS 2011
Pied-billed Grebe	Podilymbus podiceps	eBird 2021; USFWS 2011
Pigeon Guillemot	Cepphus columba	eBird 2021; iNaturalist 2021; USFWS 2011
Pileated Woodpecker	Dryocopus pileatus	eBird 2021; USFWS 2011
Pine Siskin	Spinus pinus	eBird 2021; USFWS 2011
Pink-footed Shearwater	Ardenna creatopus	eBird 2021; USFWS 2011
Pomarine Jaeger	Stercorarius pomarinus	eBird 2021; USFWS 2011
Prairie Falcon	Falco mexicanus	eBird 2021
Purple Martin	Progne subis	eBird 2021; USFWS 2011
Red Crossbill	Loxia curvirostra	eBird 2021; iNaturalist 2021; USFWS 2011
Red Knot	Calidris canutus	eBird 2021; iNaturalist 2021; USFWS 2011
Red Phalarope	Phalaropus fulicarius	eBird 2021; USFWS 2011
Red throated Loon	Gavia stellata	eBird 2021; iNaturalist 2021; USFWS 2011
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Common Name	Scientific Name	Source
Red-breasted Merganser	Mergus serrator	iNaturalist 2021; USFWS 2011
Red-breasted Nuthatch	Sitta canadensis	eBird 2021; USFWS 2011
Red-breasted Sapsucker	Sphyrapicus ruber	USFWS 2011
Red-necked Grebe	Podiceps grisegena	iNaturalist 2021; USFWS 2011
Red-necked Phalarope	Phalaropus lobatus	eBird 2021; USFWS 2011
Red-shouldered Hawk	Buteo lineatus	USFWS 2011
Red-tailed Hawk	Buteo jamaicensis	eBird 2021; USFWS 2011
Rhinoceros Auklet	Cerorhinca monocerata	eBird 2021; iNaturalist 2021; USFWS 2011
Ring-billed Gull	Larus delawarensis	eBird 2021; iNaturalist 2021; USFWS 2011
Ring-necked Duck	Aythya collaris	eBird 2021; USFWS 2011
Ring-necked Pheasant	Phasianus colchicus	eBird 2021; USFWS 2011
Rock Dove	Columba livia	USFWS 2011
Rock Pigeon	Columba livia	eBird 2021; iNaturalist 2021
Rock Sandpiper	Calidris ptilocnemis	eBird 2021; iNaturalist 2021; USFWS 2011
Ross's Goose	Chen rossii	USFWS 2021
Rough-legged Hawk	Buteo lagopus	eBird 2021; USFWS 2011
Ruby-crowned Kinglet	Regulus calendula	eBird 2021; USFWS 2011
Ruddy Duck	Oxyura jamaicensis	eBird 2021; USFWS 2011
RuddyTurnstone	Arenaria interpres	eBird 2021; iNaturalist 2021; USFWS 2011
Ruffed Grouse	Bonasa umbellus	eBird 2021; USFWS 2011
Sabine's Gull	Xema sabini	eBird 2021; USFWS 2011
Sandhill Crane	Antigone canadensis	eBird 2021
Semipalmated Plover	Charadrius semipalmatus	eBird 2021; iNaturalist 2021
Semipalmated Sandpiper	Calidris pusilla	USFWS 2011
Sharp-Shinned Hawk	Accipiter striatus	eBird 2021; USFWS 2011
Sharp-tailed Sandpiper	Calidris acuminata	USFWS 2011
Short-billed Dowitcher	Pluvialis squatarola	eBird 2021; iNaturalist 2021; USFWS 2011
Short-eared Owl	Asio flammeus	eBird 2021; USFWS 2011
Short-tailed Shearwater	Ardenna tenuirostris	eBird 2021; USFWS 2011
Slaty-backed Gull	Larus schistisagus	eBird 2021
Snow Bunting	Plectrophenax nivalis	eBird 2021; USFWS 2011

Common Name	Scientific Name	Source
Snow Goose	Anser caerulescens	eBird 2021; USFWS 2011
Snowy Owl	Bubo scandiacus	USFWS 2011
Snowy Plover	Charadrius nivosus	eBird 2021
Sooty Grouse	Dendragapus fuliginosus	eBird 2021; USFWS 2011
Sooty Shearwater	Ardenna grisea	eBird 2021; USFWS 2011
Sora	Porzana carolina	USFWS 2011
South Polar Skua	Stercorarius maccormicki	eBird 2021
Surf Scoter	Melanitta perspicillata	eBird 2021; iNaturalist 2021; USFWS 2011
Surfbird	Calidris virgata	eBird 2021; iNaturalist 2021; USFWS 2011
Swainson's Thrush	Catharus ustulatus	eBird 2021; USFWS 2011
Townsend's Solitaire	Myadestes townsendi	USFWS 2011
Townsend's Warbler	Setophaga townsendi	eBird 2021; USFWS 2011
Tree Swallow	Tachycineta bicolor	eBird 2021; USFWS 2011
Tropical Kingbird	Tyrannus melancholicus	eBird 2021
Trumpeter Swan	Cygnus buccinator	USFWS 2011
Tufted Puffin	Fratercula cirrhata	USFWS 2011
Tundra Swan	Cygnus columbianus	eBird 2021; USFWS 2011
Varied Thrush	Ixoreus naevius	eBird 2021; USFWS 2011
Vaux's Swift	Chaetura vauxi	eBird 2021; USFWS 2011
Vesper Sparrow	Pooecetes gramineus	eBird 2021
Virginia Rail	Rallus limicola	eBird 2021; USFWS 2011
Wandering Tattler	Tringa incana	eBird 2021; iNaturalist 2021; USFWS 2011
Western Bluebird	Sialia mexicana	eBird 2021Regulus calendula
Western Grebe	Aechmophorus occidentalis	eBird 2021; iNaturalist 2021; USFWS 2011
Western Meadowlark	Sturnella neglecta	eBird 2021; USFWS 2011
Western Sandpiper	Calidris mauri	eBird 2021; iNaturalist 2021; USFWS 2011
Western Screech Owl	Megascops kennicottii	USFWS 2011
Western Scrub-jay	Aphelocoma californica	USFWS 2011
Western Tanager	Piranga ludoviciana	eBird 2021; USFWS 2011
White-tailed Kite	Elanus leucurus	eBird 2021; USFWS 2011

White-throated SparrowZondrichia abicolliseBird 2021; USFWS 2011White-winged ScoterMelantta deglandieBird 2021; USFWS 2011Wild TurkeyMeleagris galopavoUSFWS 2011WilletTringa semipalmataeBird 2021; USFWS 2011WilletTringa semipalmataeBird 2021; USFWS 2011Willow FlycatcherEmpidonax trailliUSFWS 2011Wilson's PhalaropePhalaropus tricoloreBird 2021; USFWS 2011Wilson's WarblerCardellina pusillaINaturalist2021; USFWS 2011Wood DuckAix sponsaeBird 2021Yellow-billed LoonGavia adamsieBird 2021Yellow-turped WarblerSetophaga coronataeBird 2021, USFWS 2011MammalsSetophaga coronataeBird 2021, USFWS 2011Bat SpeciesMyotis sp.USFWS 2011BabcatLynx rufusUSFWS 2011Bushy-tailed WoodratNeotoma cinereaUSFWS 2011California Sea LionZatophus californianusINaturalist2021; USFWS 2011CougarPuma concolorUSFWS 2011CougarPhocen phocoenaINaturalist2021; USFWS 2011Harbor SealMustela frenataUSFWS 2011Harbor ValaleMegaptera novaeanglaeINaturalist2021; USFWS 2011Humpback WhaleMustela frenataUSFWS 2011Humpback WhaleMustela frenataUSFWS 2011Humpback WhaleMustela frenataUSFWS 2011MustralOndara zibethicusUSFWS 2011MinkMustela frenataUSFWS 2011Mink <td< th=""><th>Common Name</th><th>Scientific Name</th><th>Source</th></td<>	Common Name	Scientific Name	Source
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Northern Fur SealCallorhinus ursinusiNaturalist 2021; USFWS 2011Northern Right Whale DolphinLissodelphis borealisiNaturalist 2021Norway RatRattus norvegicusUSFWS 2011NutriaMyocastor coypusiNaturalist 2021; USFWS 2011	Muskrat	Ondatra zibethicus	USFWS 2011
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Norway Rat Rattus norvegicus USFWS 2011 Nutria Myocastor coypus iNaturalist 2021; USFWS 2011	Northern Fur Seal	Callorhinus ursinus	iNaturalist 2021; USFWS 2011
Nutria Myocastor coypus iNaturalist 2021; USFWS 2011	Northern Right Whale Dolphin	Lissodelphis borealis	iNaturalist 2021
	Norway Rat	Rattus norvegicus	USFWS 2011
Pacific Jumping Mouse Zapus trinotatus USFWS 2011	Nutria	Myocastor coypus	iNaturalist 2021; USFWS 2011
	Pacific Jumping Mouse	Zapus trinotatus	USFWS 2011

Common Name	Scientific Name	Source
Pacific White-sided Dolphin	Lagenorhynchus obliquidens	iNaturalist 2021
Pine Marten	Martes americana	USFWS 2011
Porcupine	Erethizon dorsatum	USFWS 2011
Raccoon	Procyon lotor	USFWS 2011
River otter	Lontra canadensis	USFWS 2011
RooseveltElk	Cervus canadensis roosevelti	USFWS 2011; iNaturalist 2021
Shrew Species	Sorex sp.	USFWS 2011
Snowshoe Hare	Lepus americanus	USFWS 2011
Steller Sea Lion	Eumetopias jubatus	iNaturalist 2021; USFWS 2011
Striped Skunk	Mephitis mephitis	USFWS 2011
Townsend's Chipmunk	Tamias townsendii	USFWS 2011
Virginia Opossum	Didelphis virginiana	USFWS 2011
Voles	<i>Myodes</i> sp. and <i>Microtus</i> sp.	USFWS 2011