

From: [BrownScott, Jennifer](#)
To: [Stenvall, Charlie](#)
Subject: Additional Information
Date: Monday, May 21, 2018 10:42:18 AM

I am still tracking down information about the relationship of Brant to the purpose. Will get it to you as soon as possible. Here's the rest.

Critical Habitat Designations

This area is within the critical habitat designated for the following Threatened and Endangered Species:

Endangered Southern Resident Killer Whale

(http://www.westcoast.fisheries.noaa.gov/publications/protected_species/marine_mammals/killer_whales/SRKW-CH-Map.jpg).

Threatened Bull Trout

(<https://www.fws.gov/pacific/bulltrout/pdf/BTCHFR101810.pdf>)

Threatened Puget Sound Chinook

(<http://www.westcoast.fisheries.noaa.gov/publications/frn/2005/70fr52685.pdf>)

Threatened Hood Canal Summer Chum

(<http://www.westcoast.fisheries.noaa.gov/publications/frn/2005/70fr52739.pdf>)

There is a table in Appendix D of our comment letter to the County (re: shoreline permit) that displays species and habitats with special designations that may be affected by the proposed aquaculture farm.

Highest Concentrations of Migratory Birds

Waterfowl

Within and immediately adjacent to the action area (as defined by the USFWS, 2016 Biological Opinion on Programmatic Consultation for Shellfish Activities in Washington State Inland Marine Waters (Biol Opp; USFWS 2016). we have recorded:

- up to 87 birds/acre.
- Daily counts of 3,000 Brant, 5,000 Northern Pintail, 6,000 Mallard, 5,000 American Wigeon and smaller numbers of molluscivorous ducks.

The shorelines within the action area also support one of the largest Brant haul out sites in the state of Washington.

Dungeness Bay and Harbor support the largest concentration of molting scoters during fall in Washington and serve as a migration nexus for a much broader spectrum of the Pacific Brant population than any other estuary within the Salish Sea (J. Evenson and K. Spragens, pers comm).

Shorebirds

We have recorded daily high counts of 4,000 shorebirds in this area during spring migration and 2,000-3,000 during the winter months. We estimate 15,000-20,000 shorebirds using this area refuge during spring migration alone.

The North Pacific Coast Regional Shorebird Management Plan identifies Dungeness Bay as a site that qualifies as a Western Hemisphere Shorebird Reserve Network site of Regional Importance. Shorebird densities are highest within the action area and the adjacent lagoon on Graveyard Spit.

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~~Dungeness NWR~Protection Island NWR~San Juan Islands NWR~~
~~Copalis NWR~Flattery Rocks NWR~Quillayute Needles NWR~~