

**From:** [Thomas, Sue](#)  
**To:** [BrownScott, Jennifer](#)  
**Subject:** Re: IMPORTANT: Report  
**Date:** Thursday, April 22, 2021 8:19:37 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[Shoreline Survey ISI\\_email.docx](#)

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Here ya go. Just a few nit picky changes

Sue

Sue Thomas  
Wildlife Biologist  
Washington Maritime NWRC  
360 457 8451

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**From:** BrownScott, Jennifer <jennifer\_brownScott@fws.gov>  
**Sent:** Wednesday, April 21, 2021 3:40 PM  
**To:** Thomas, Sue <sue\_thomas@fws.gov>  
**Subject:** Re: IMPORTANT: Report

Here are some thoughts related to the limitations of using the DNWR Shoreline Survey ISI as a survey to provide baseline data or a or a survey template for aquaculture disturbance impact surveys.....

Please find attached the Initial Survey Instructions for the Dungeness National Wildlife Refuge Shoreline Survey. This Level 1 Survey was conducted to collect diversity and abundance of wintering wildlife within the survey area, for use in oil spill response. Surveys were conducted in 2014 and 2015 and only covered a small portion the proposed aquaculture lease area. Incidental observation of disturbance vectors were noted, but the survey was not intended to identify the quantity, magnitude, duration or overall impacts of disturbance. The protocol does not identify the desired accuracy of estimates, magnitude of detectable change, or acceptable error rate as would be necessary to statistically determine disturbance impacts (if disturbance data collection was the focus of this survey).

Given the incidental nature of disturbance data collection, the length of time since the survey was conducted, the fact that the survey area does not adequately cover the lease or adjacent areas, and the inability to fully understand data accuracy we would not recommend using data from this survey as baseline information to understand potential wildlife impacts from aquaculture activities.

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Jennifer Brown-Scott  
Project Leader  
Washington Maritime National Wildlife Refuge Complex  
715 Hologerson Road  
Sequim, WA 98382  
(360) 457-8451

~~[Dungeness NWR](#)~[Protection Island NWR](#)~[San Juan Islands NWR](#)~[Copalis NWR](#)~[Flattery Rocks NWR](#)~[Quillayute Needles NWR](#)~~

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**From:** Thomas, Sue <sue\_thomas@fws.gov>  
**Sent:** Wednesday, April 21, 2021 1:55 PM  
**To:** BrownScott, Jennifer <jennifer\_brownScott@fws.gov>  
**Subject:** Re: IMPORTANT: Report

most recent ISI.

Sue Thomas  
Wildlife Biologist  
Washington Maritime NWRC  
360 457 8451

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**From:** BrownScott, Jennifer <jennifer\_brownScott@fws.gov>  
**Sent:** Friday, April 16, 2021 3:23 PM  
**To:** Thomas, Sue <sue\_thomas@fws.gov>  
**Subject:** IMPORTANT: Report

JST is requesting a copy of our Initial Survey Instructions for our Avian Shoreline Survey. Should we get together with Kevin K. to discuss a response that includes the limitations of conclusions drawn from use of this ISI to collect data?

-jennifer

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Jennifer Brown-Scott  
Project Leader

Washington Maritime National Wildlife Refuge Complex  
715 Hologerson Road  
Sequim, WA 98382  
(360) 457-8451

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

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**From:** Sutherland, Todd <todd\_sutherland@fws.gov>  
**Sent:** Friday, April 16, 2021 3:18 PM  
**To:** BrownScott, Jennifer <jennifer\_brownScott@fws.gov>  
**Subject:** Fw: [EXTERNAL] Report

Jennifer,

FYI....you may be getting contacted by tribal biologist as they wanted access to one of your ServCat internal documents related to an Avian Shoreline Survey. I will forward the message I sent her.

Have a good weekend.

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**From:** Stockenberg, Erin <erin\_stockenberg@fws.gov>  
**Sent:** Wednesday, April 14, 2021 6:38 PM  
**To:** Sutherland, Todd <todd\_sutherland@fws.gov>  
**Cc:** Craver, Dan <dan\_craver@fws.gov>; Kilbride, kilb <kevin\_kilbride@fws.gov>  
**Subject:** Re: [EXTERNAL] Report

Please forward the request to Jennifer Brown-Scott, the manager. This could be related to a very sensitive topic that they have been dealing with. I can't make the determination to override how they are setting permissions for their station's ISI.

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**From:** Sutherland, Todd <todd\_sutherland@fws.gov>  
**Sent:** Wednesday, April 14, 2021 4:46:06 PM  
**To:** Stockenberg, Erin <erin\_stockenberg@fws.gov>  
**Cc:** Craver, Dan <dan\_craver@fws.gov>  
**Subject:** Fw: [EXTERNAL] Report

Erin,

There is a request for a document in which you are listed as one of the owners. Please let the requestor know whether she can have access.

<https://ecos.fws.gov/ServCat/Reference/Profile/57991>

Thanks!

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**From:** Frakes, Brent J <brent\_frakes@fws.gov>  
**Sent:** Wednesday, April 14, 2021 5:37 PM  
**To:** Sutherland, Todd <todd\_sutherland@fws.gov>  
**Subject:** Fw: [EXTERNAL] Report

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**From:** Sissi Bruch <sbruch@jamestowntribe.org>  
**Sent:** Wednesday, April 14, 2021 4:18 PM  
**To:** Frakes, Brent J <brent\_frakes@fws.gov>  
**Subject:** [EXTERNAL] Report

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Hi Brent,

I'm trying to find a copy of the Dungeness NWR: Initial Survey Instructions for Avian Shoreline Survey. Apparently it was updated in 2020. If you could send me this document, I would appreciate it. The Tribe has a project on the DNR tidelands within the Dungeness Refuge and I'm trying to find as much information as possible.

Thanks,

Sissi

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## Standard Operating Procedure - (Code: 57991)

**Title** Dungeness NWR: Initial Survey Instructions for Avian Shoreline Survey

**Description** The U.S. Coast Guard determined that Dungeness Spit is one of the top five high-risk areas in the U.S. for oil spill events due, in part, to its prominent location within the Strait of Juan de Fuca and proximity to the high level of shipping traffic within the Salish Sea (Melvin et.al. 2001). Approximately 17 billion gallons of oil are shipped through the Strait of Juan de Fuca each year on over 1,000 tankers; any spill from these tankers could potentially be devastating to refuge wildlife and habitats. In fact, predominantly westerly currents have transported oil and/or oiled birds to the Refuge during the most recent spill in Port Angeles Harbor from the T/V Arco Anchorage in 1985. The Avian Shoreline Survey is designed to monitor abundance and distribution of shorebirds, waterbirds, and waterfowl along both sides of Dungeness Spit during the nonbreeding season. The primary objective is to provide updated baseline data that may be needed to support Natural Resource Damage Assessment mitigation and restoration actions. In addition, it provides information that guides management of areas closed to public use on the Refuge. This survey builds on legacy data from surveys conducted during the nonbreeding season, after the Arco spill, in the late 1980s. The basic protocol follows that of the Puget Sound Seabird Survey with a few key exceptions (i.e. surveys at mid tide and multiple survey points) that make surveys feasible on DNWR due to access restrictions and encompass high-and low-use areas. Results from this survey will provide a broader scope of inference when combined with the Midwinter Waterfowl Survey on DNWR by expanding the focus of that survey to all overwintering birds using nearshore habitats during the winter months. It is considered a Tier 2 priority because it helps to assess progress toward meeting management goals in closed areas of the Refuge as well as rapid response to oil spills but does not target specific species for use in condition assessments or trend analysis....less

**Full Citation** Thomas S. 2016. Dungeness NWR: Initial Survey Instructions for Avian Shoreline Survey

**Visibility** Public

[click here for less info](#)

### Files and Links (1)

Type	Download Link	Description
Digital File	Final_WMNWRC_ISI_Avian_Shoreline_Survey.pdf	Initial Survey Instructions for Avian Shoreline Survey

### Originating Project

Core Info Permissions Orgs and Geography Subjects and Keywords Taxonomy History

Reference Access Level Public

File Access Level Internal

Sensitivity Not Sensitive

Proprietary/Copyright Designation No Restriction - The information is neither copyrighted nor has any other use restrictions related to it being intellectual property. For that reason, this information may be distributed to the FWS and public.

Quality Unknown - The quality of the information is unknown or unevaluated.

Additional Use Constraints - -

Data Stewards Permission to Edit Yes

Reference Owners FWS Staff

Permission to Download Files FWS Staff

# Standard Operating Procedure - (Code: 57991)

**Title** Dungeness NWR: Initial Survey Instructions for Avian Shoreline Survey

**Description** The U.S. Coast Guard determined that Dungeness Spit is one of the top five high-risk areas in the U.S. for oil spill events due, in part, to its prominent location within the Strait of Juan de Fuca and proximity to the high level of shipping traffic within the Salish Sea (Melvin et.al. 2001). Approximately 17 billion gallons of oil are shipped through the Strait of Juan de Fuca each year on over 1,000 tankers; any spill from these tankers could potentially be devastating to refuge wildlife and habitats. In fact, predominantly westerly currents have transported oil and/or oiled birds to the Refuge during the most recent spill in Port Angeles Harbor from the T/V Arco Anchorage in 1985. The Avian Shoreline Survey is designed to monitor abundance and distribution of shorebirds, waterbirds, and waterfowl along both sides of Dungeness Spit during the nonbreeding season. The primary objective is to provide updated baseline data that may be needed to support Natural Resource Damage Assessment mitigation and restoration actions. In addition, it provides information that guides management of areas closed to public use on the Refuge. This survey builds on legacy data from surveys conducted during the nonbreeding season, after the Arco spill, in the late 1980s. The basic protocol follows that of the Puget Sound Seabird Survey with a few key exceptions (i.e. surveys at mid tide and multiple survey points) that make surveys feasible on DNWR due to access restrictions and encompass high-and low-use areas. Results from this survey will provide a broader scope of inference when combined with the Midwinter Waterfowl Survey on DNWR by expanding the focus of that survey to all overwintering birds using nearshore habitats during the winter months. It is considered a Tier 2 priority because it helps to assess progress toward meeting management goals in closed areas of the Refuge as well as rapid response to oil spills but does not target specific species for use in condition assessments or trend analysis...less

**Full Citation** Thomas S. 2016. Dungeness NWR: Initial Survey Instructions for Avian Shoreline Survey

**Visibility** Public

[click here for less info](#)

## Files and Links (1)

Type	Download Link	Description
 Digital File	Final_WMNRWC_ISI_Avian_Shoreline_Survey.pdf	Initial Survey Instructions for Avian Shoreline Survey

## Originating Project

[Core Info](#)
[Permissions](#)
[Orgs and Geography](#)
[Subjects and Keywords](#)
[Taxonomy](#)
[History](#)

Reference Access Level **Public**

File Access Level **Internal**

Sensitivity **Not Sensitive**

Proprietary/Copyright Designation	No Restriction - The information is neither copyrighted nor has any other use restrictions related to it being intellectual property. For that reason, this information may be distributed to the FWS and public.
Quality	Unknown - The quality of the information is unknown or unevaluated.
Additional Use Constraints	--
Data Stewards Permission to Edit	Yes
Reference Owners	FWS Staff
Permission to Download Files	FWS Staff

Please find attached the Initial Survey Instructions for the Dungeness National Wildlife Refuge Shoreline Survey. This ~~Tier 2 (T2) Level 1~~ Survey was conducted to collect diversity and abundance of wintering wildlife within the survey area, for use in oil spill response. Surveys were conducted in 2014 and 2015 and only covered a small portion the proposed aquaculture lease area. Incidental observation of disturbance vectors were noted, but the survey was not intended to identify the quantity, magnitude ~~or~~, duration ~~of~~ overall impacts ~~from~~ disturbance. The ~~initial survey instructions do~~ ~~protocol does~~ not identify the desired accuracy of estimates, magnitude of detectable change, or acceptable error rate as would be necessary to statistically determine disturbance impacts (if disturbance data collection was the focus of this survey).

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