

From: [Craver, Dan](#)
To: [Cruz, Liz](#)
Cc: [Thomas, Sue](#)
Subject: Fwd: Dungeness Aquaculture
Date: Friday, December 21, 2018 3:59:45 PM
Attachments: [Dungeness NWR Aquaculture Briefing Maps_SOW.docx](#)

Liz,

For when we are back in the office on Jan 31. We have a short-turnaround high-priority map request (see below). I talked with Sue and got the best available data. Also attached a statement of work. Lets talk, then again with Sue on Thursday Jan 3 when she is back in the office. Hope you can help.

Dan Craver
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From: **Kilbride, Kevin** <kevin_kilbride@fws.gov>
Date: Thu, Dec 20, 2018 at 2:25 PM
Subject: Fwd: Dungeness Aquaculture
To: Craver, Dan <dan_craver@fws.gov>

Would someone be available to help out WA Maritime with maps for a RD briefing on Jan 8th? I know how seemingly small projects end up being much more than that.

Kevin Kilbride
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From: **BrownScott, Jennifer** <jennifer_brownscoott@fws.gov>
Date: Thu, Dec 20, 2018 at 2:18 PM
Subject: Dungeness Aquaculture
To: Kilbride, Kevin <kevin_kilbride@fws.gov>

The Jamestown Tribe has applied for Army Corps and County permits to operate an oyster aquaculture farm within the boundaries of Dungeness NWR. We have a briefing with Robin on January 8, and may need a little GIS assistance to create a couple of professional maps of the site. Do any of your GIS whizzes have any extra moments that could be stolen for this purpose? Sorry for the late notice, we are responding to a very short deadline.

Thanks,
Jennifer

Jennifer Brown-Scott
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*~~Dungeness NWR~Protection Island NWR~San Juan Islands NWR~~
~~Copalis NWR~Flattery Rocks NWR~Quillayute Needles NWR~~*

Dungeness NWR Aquaculture Briefing

Maps

Last updated 20181221 4pm

General info

- Two maps needed described below
- Briefing with the RD is on Jan 8
- Sue is in the office Jan 3 and 4 – work with her for additional data and map prep (symbolology/labels)
- Dan collected all readily available data as map packages so have starting point for symbolology – **ON DAN'S C:DRIVE**

Instructions for both maps

- 8.5x11 landscape
- In standard FWS template
- Re-add NAIP (or other suitable imagery) as base layer
- Keep consistent – symbolology, labels, extent if possible
- Export as PDF, and JPG for PPT

Map 1 Basic Map

Filename: DungenessBoundary_JSTProjArea.mxd

1. Have all data
2. Will need to highlight or call-out south shore parcels

Map 2 Wildlife and Habitat Perspective

Filename: JST_NATuralResources_NearParcel.mxd

1. make less busy and complex looking
2. download/add "WA Wetlands of High Conservation Concern" polygons
 - unable to retrieve from mapper
<http://wadnr.maps.arcgis.com/apps/webappviewer/index.html?id=5cf9e5b22f584ad7a4e2aebc63c47bda>
 - did not find on the WA Natural Heritage Program site <https://www.dnr.wa.gov/NHPdata>
 - did not find on WADNR GIS site <http://data-wadnr.opendata.arcgis.com/>
 - sent e-mail on 12/21 to rebecca.niggemann@dnr.wa.gov, jasa.holt@dnr.wa.gov
 - might end up having to screen capture the web map and heads up digitize!
3. add waterbird/shorebird layer - Sue has point data, is considering how to best represent (e.g., a simplified eye-balled polygon) and to work with other layers in map
4. IF THERE IS TIME: create 5' contour from LiDAR dataset and add to map