

**APPROVED JURISDICTIONAL DETERMINATION FORM  
U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

**SECTION I: BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):** 09/20/2022

**B. DISTRICT OFFICE, FILE NAME, AND NUMBER:** Alaska District, POA-2022-00424

**C. PROJECT LOCATION AND BACKGROUND INFORMATION:**

State: Alaska                      Borough: Kenai Peninsula                      City: Homer  
Center coordinates of site (lat/long in degree decimal format): Lat. 59.65450 ° N., Long. 151.48309 °W.  
Universal Transverse Mercator: 5N  
Name of nearest waterbody: Beluga Lake  
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Beluga Lake  
Name of watershed or Hydrologic Unit Code (HUC): 190203010806 (Swift Creek-Frontal Kachemak Bay)

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
- Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form

**D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

- Office (Desk) Determination.                      Date:    September 20, 2022  
 Field Determination.                                      Date(s): August 31, 2022

**SECTION II: SUMMARY OF FINDINGS**

**A. RHA SECTION 10 DETERMINATION OF JURISDICTION.**

There are no “*navigable waters of the U.S.*” within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.  
 Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

**B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There are “*waters of the U.S.*” within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

**1. Waters of the U.S.**

**a. Indicate presence of waters of U.S. in review area (check all that apply):<sup>1</sup>**

- TNWs, including territorial seas  
 Wetlands adjacent to TNWs  
 Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs  
 Non-RPWs that flow directly or indirectly into TNWs  
 Wetlands directly abutting RPWs that flow directly or indirectly into TNWs  
 Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs  
 Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs  
 Impoundments of jurisdictional waters  
 Isolated (interstate or intrastate) waters, including isolated wetlands

<sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>2</sup> For purposes of this form an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least “seasonally” (e.g., typically 3 months).

- b. **Identify (estimate) size of waters of the U.S. in the review area:**  
Non-wetland waters: 0  
Wetlands: 23.6 acres.
- c. **Limits (boundaries) of jurisdiction based on:** 1987 Delineation Manual  
Elevation of established OHWM (if known):

**2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>**

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain:

### **SECTION III: CWA ANALYSIS**

#### **A. TNWs AND WETLANDS ADJACENT TO TNWs**

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

##### **1. TNW**

Identify TNW: Beluga Lake

Summarize rationale supporting determination: Beluga Lake was formerly a tidally influenced stream until it became impounded by a road. The lake has been and is still used for navigation of boats and floatplanes.

##### **2. Wetland adjacent to TNW**

Summarize rationale supporting conclusion that wetland is “adjacent”: The property wetlands are part of a wetland complex that continues S/SE off-site and directly abuts Beluga Lake.

#### **B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):**

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

##### **1. Characteristics of non-TNWs that flow directly or indirectly into TNW**

---

<sup>3</sup> Supporting documentation is presented in Section III F.

<sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

**(i) General Area Conditions:**

Watershed size:

Drainage area:

Average annual rainfall: inches

Average annual snowfall: inches

**(ii) Physical Characteristics:**

**(a) Relationship with TNW:**

Tributary flows directly into TNW.

Tributary flows through CHOOSE: Enter or 10 or more tributaries before entering TNW.

Project waters are CHOOSE: Enter or 30 or more river miles from TNW.

Project waters are CHOOSE: Enter or 30 or more river miles from RPW.

Project waters are CHOOSE: Enter or 30 or more aerial (straight) miles from TNW.

Project waters are CHOOSE: Enter or 30 or more aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>:

Tributary stream order, if known:

**(b) General Tributary Characteristics (check all that apply):**

**Tributary is:**  Natural

Artificial (man-made). Explain:

Manipulated (man-altered). Explain:

**Tributary properties with respect to top of bank (estimate):**

Average width: feet

Average depth: feet

Average side slopes: Choose an item.

**Primary tributary substrate composition (check all that apply):**

Silts  Sands  Concrete

Cobbles  Gravel  Muck

Bedrock  Vegetation. Type/% cover:

Other. Explain:

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:

Presence of run/riffle/pool complexes. Explain:

Tributary geometry: CHOOSE: Relatively Straight/Meandering

Tributary gradient (approximate average slope): %

**(c) Flow:**

Tributary provides for: CHOOSE: Seasonal Flow/Intermittent but not Seasonal Flow/Ephemeral Flow

Estimate average number of flow events in review area/year: CHOOSE: Enter or 20 (or greater)

Describe flow regime:

Other information on duration and volume:

Surface flow is: CHOOSE: Discrete/Confined/Discrete and Confined/Overland Sheetflow Characteristics:

Subsurface flow: CHOOSE: Yes/No/Unknown Explain findings:

Dye (or other) test performed:

Tributary has (check all that apply):

Bed and banks

---

<sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

- OHWM<sup>6</sup> (check all indicators that apply):
- |  |   |
|--|---|
| <input type="checkbox"/> clear, natural line impressed on the bank | <input type="checkbox"/> the presence of litter and debris          |
| <input type="checkbox"/> changes in the character of soil          | <input type="checkbox"/> destruction of terrestrial vegetation      |
| <input type="checkbox"/> shelving                                  | <input type="checkbox"/> the presence of wrack line                 |
| <input type="checkbox"/> vegetation matted down, bent, or absent   | <input type="checkbox"/> sediment sorting                           |
| <input type="checkbox"/> leaf litter disturbed or washed away      | <input type="checkbox"/> scour                                      |
| <input type="checkbox"/> sediment deposition                       | <input type="checkbox"/> multiple observed or predicted flow events |
| <input type="checkbox"/> water staining                            | <input type="checkbox"/> abrupt change in plant community           |
| <input type="checkbox"/> other (list):                             |   |
| <input type="checkbox"/> Discontinuous OHWM. <sup>7</sup> Explain: |   |

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

- |  |  |
|--|--|
| <input type="checkbox"/> High Tide Line indicated by:              | <input type="checkbox"/> Mean High Water Mark indicated by:            |
| <input type="checkbox"/> oil or scum line along shore objects      | <input type="checkbox"/> survey to available datum;                    |
| <input type="checkbox"/> fine shell or debris deposits (foreshore) | <input type="checkbox"/> physical markings;                            |
| <input type="checkbox"/> physical markings/characteristics         | <input type="checkbox"/> vegetation lines/changes in vegetation types. |
| <input type="checkbox"/> tidal gauges                              |  |
| <input type="checkbox"/> other (list):                             |  |

**(iii) Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:  
Identify specific pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

**(a) General Wetland Characteristics:**

Properties:

Wetland size: acres

Wetland type. Explain:

Wetland quality. Explain:

Project wetlands cross or serve as state boundaries. Explain:

**(b) General Flow Relationship with Non-TNW:**

Flow is: Choose an item. Explain:

Surface flow is: CHOOSE: Discrete/Confined/Discrete and Confined/Overland Sheetflow

Characteristics:

Subsurface flow: CHOOSE: Yes/No/Unknown Explain findings:

Dye (or other) test performed:

<sup>6</sup> A natural or man-made discontinuity in the OHWM does not necessarily server jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup> Ibid.

(c) Wetland Adjacency Determination with Non-TNW:

- Directly abutting
- Not directly abutting
  - Discrete wetland hydrologic connection. Explain:
  - Ecological connection. Explain:
  - Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are CHOOSE: Enter or 30 or more river miles from TNW.

Project waters are CHOOSE: Enter or 30 or more aerial (straight) miles from TNW.

Flow is from: CHOOSE: Wetland to Navigable Water/Navigable Water to Wetland/Wetland to/from Navigable Water/No Flow

Estimate approximate location of wetland as within the CHOOSE: Enter or 500-year or greater. floodplain.

**(ii) Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

**3. Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: CHOOSE: Enter or 30 or more Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
Y/N		Y/N	
Y/N		Y/N	
Y/N		Y/N	
Y/N		Y/N	

Summarize overall biological, chemical and physical functions being performed:

**C. SIGNIFICANT NEXUS DETERMINATION**

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

**Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:**

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

*Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:*

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):**

**1. TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:

- TNWs:  
 Wetlands adjacent to TNWs: 23.6 acres.

**2. RPWs that flow directly or indirectly into TNWs.**

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:  
 Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters:  
 Other non-wetland waters: acres.

Identify type(s) of waters:

**3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.**

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters:  
 Other non-wetland waters: acres.

Identify type(s) of waters:

**4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**

---

<sup>8</sup> See Footnote 3.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  
 Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

**5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

**7. Impoundments of jurisdictional waters.<sup>9</sup>**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from “waters of the U.S.,” or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

**SECTION IV: DATA SOURCES.**

**A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):**

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps:
- Corps navigable waters’ study:
- U.S. Geological Survey Hydrologic Atlas:
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- Alaska District’s Approved List of Navigable Waters
- U.S. Geological Survey map(s). Cite scale & quad name:
- USDA Natural Resources Conservation Service Soil Survey. Citation: USDA Web Soil Survey
- National wetlands inventory map(s). Cite name: USFWS Wetlands Mapper
- State/Local wetland inventory map(s): Kenai Borough Wetlands Mapper
- FEMA/FIRM maps:
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): Digital Globe Maxar Satellite Imagery 2020-2022  
or  Other (Name & Date):

---

<sup>9</sup> To complete the analysis refer to the key in Section III D.6 of the Instructional Guidebook.

- Previous determination(s). File no. and date of response letter:
- Applicable/supporting case law:
- Applicable/supporting scientific literature:
- Other information (please specify):

**B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Wetland delineations were conducted and submitted to the Corps on behalf of the applicant for a 27.5 acre study area. Based on consultant field delineations from June-July 2022 and a site visit by the Corps in Aug 2022 to field verify the consultant's delineations, 23.6 acres of the study area were determined to be wetland. The remaining 3.9 acres of non-wetlands were located along the northern edge of the property, nearest to Aspen Lane, furthest up along the south facing slope. The on-site wetlands continue off-site to the south and southeast, sloping towards Beluga Lake. The wetland complex is continuous and unbroken and eventually abuts Beluga Lake roughly 0.5 mile to the SE of the property. Beluga Lake, formerly a tidally influenced stream, now an impounded lake used for boat and floatplane traffic, is the first TNW along the wetland's flow path. Further downstream, Beluga Lake connects to the tidally-influenced Beluga Slough which ultimately flows into Kachemak Bay.



---

Gwen Jacobson  
Regulatory Specialist  
NORTH Section

26 Sept. 2022

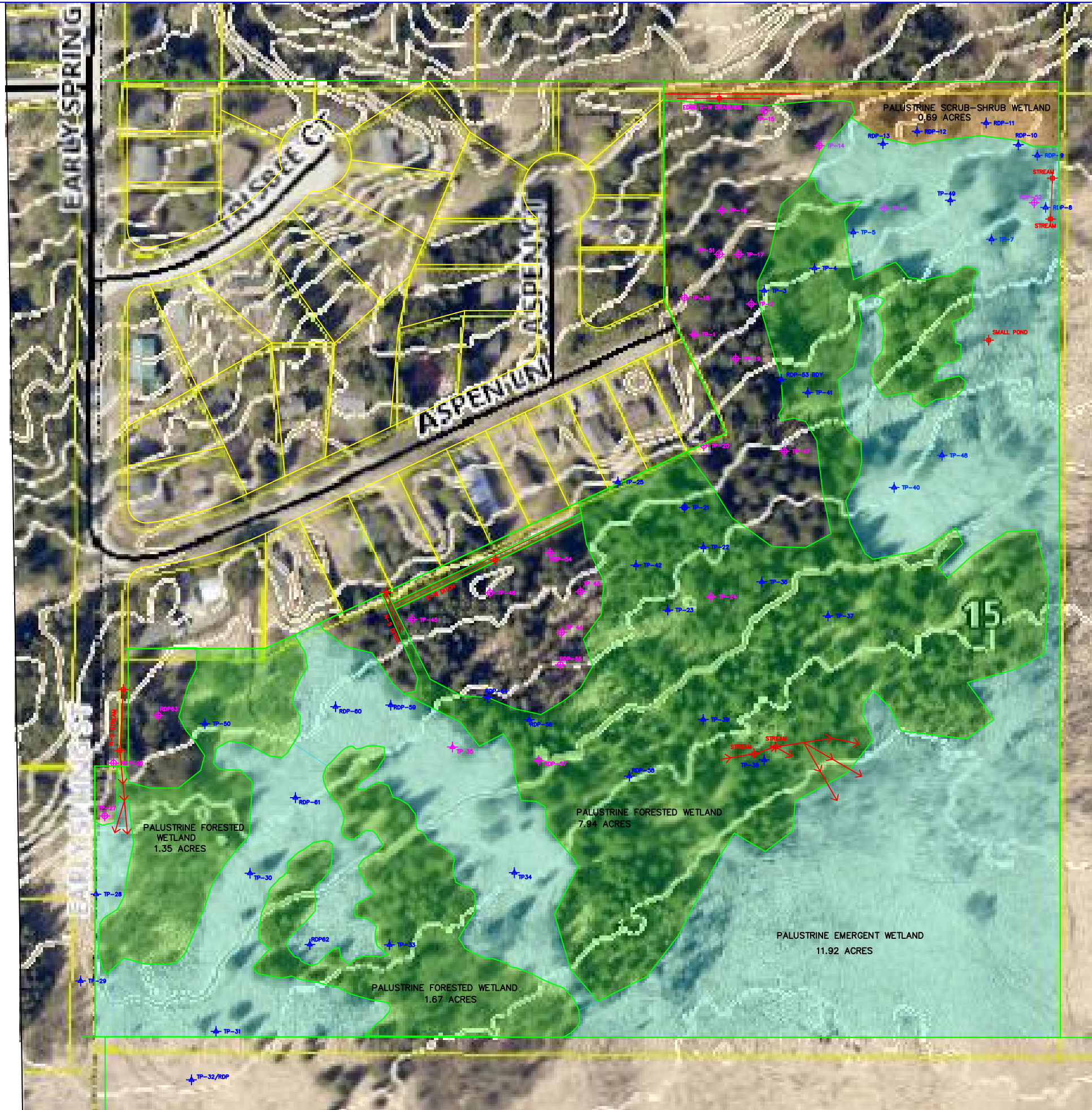
---

Date



LEGEND & SYMBOLS

- DENOTES UPLANDS
- PALUSTRINE FORESTED WETLANDS
- PALUSTRINE SCRUB-SHRUB WETLANDS
- PALUSTRINE EMERGENT WETLANDS
- DENOTES EXISTING PROPERTY LINES
- DENOTES DITCH OR STREAM
- + DENOTES UPLAND DATA POINT
- + DENOTES WETLAND DATA POINT
- + DENOTES HYDOLOGY DATA POINT



LISA DAVIDSON TRUST  
WETLAND MAPPING

PREPARED FOR  
LISA DAVIDSON TRUST  
HOMER, ALASKA 99603

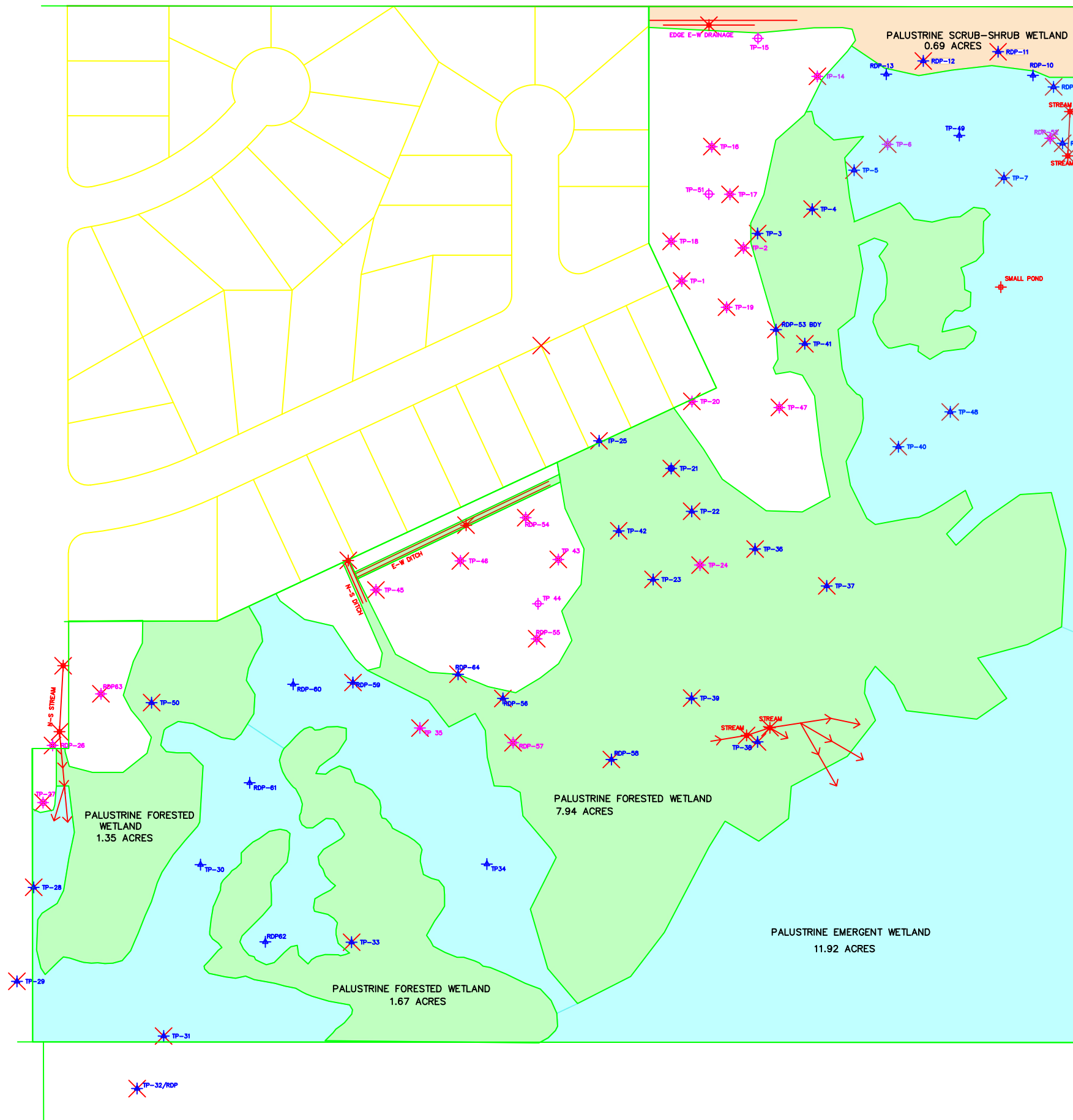
BISHOP ENGINEERING, LLC  
PO BOX 2501 HOMER, AK 99603-2501  
(907) 299-7609 www.bishop-engineering.com

DATE 8/25/2022  
DRAWN SNC  
CHECKED 1"=150'  
SCALE AS SHOWN  
PROJ NO. 2022068

SHEET NO.  
C-1

**LEGEND & SYMBOLS**

- DENOTES UPLANDS
- PALUSTRINE FORESTED WETLANDS
- PALUSTRINE EMERGENT WETLANDS
- DENOTES EXISTING PROPERTY LINES
- DENOTES PROPOSED PROPERTY LINES
- DENOTES DITCH OR STREAM
- DENOTES UPLAND DATA POINT
- DENOTES WETLAND DATA POINT
- DENOTES HYDROLOGY DATA POINT



LISA DAVIDSON TRUST  
WETLAND MAPPING

PREPARED FOR  
LISA DAVIDSON TRUST  
HOMER, ALASKA 99603

BISHOP ENGINEERING, LLC  
PO BOX 2501 HOMER, AK 99603-2501  
(907) 299-7609 www.bishop-engineering.com

DATE 8/25/2022  
DRAWN SNC  
CHECKED 1"=150'  
SCALE AS SHOWN  
PROJ NO. 2022068

SHEET NO.  
**C-2**