



**U.S. ARMY CORPS OF ENGINEERS  
REGULATORY PROGRAM  
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)  
NAVIGABLE WATERS PROTECTION RULE**

**I. ADMINISTRATIVE INFORMATION**

Completion Date of Approved Jurisdictional Determination (AJD): 8/27/2021

ORM Number: POA-2021-00168

Associated JDs: POA-2015-00357.

Review Area Location<sup>1</sup>: State/Territory: Alaska City: Wasilla County/Parish/Borough: Matsu Borough

Center Coordinates of Review Area: Latitude 61.582350°N Longitude -149.543710°W

**II. FINDINGS**

**A. Summary:** Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A or describe rationale.
- There are “navigable waters of the United States” within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
- There are “waters of the United States” within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
- There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

**B. Rivers and Harbors Act of 1899 Section 10 (§ 10)<sup>2</sup>**

§ 10 Name	§ 10 Size		§ 10 Criteria	Rationale for § 10 Determination
N/A.	N/A.	N/A	N/A.	.

**C. Clean Water Act Section 404**

Territorial Seas and Traditional Navigable Waters ((a)(1) waters): <sup>3</sup>				
(a)(1) Name	(a)(1) Size		(a)(1) Criteria	Rationale for (a)(1) Determination
N/A.	N/A.	N/A.	N/A.	N/A.

Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
Tributary that connects Jacobsen Lake to Big Lake.	0.78	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Perennial stream that connects Jacobsen Lake to Lucille Creek through a small stream along various wetland mosaics and crosses the railroad through a culvert located at Lat. 61.576924° and Long. -149.512677° and another culvert at South Mack Road (Lat. 61.576565°/ Long. -149.511829°). This stream enters an unnamed 7-acre pond and then moves south connecting with Lucille Creek at Lat. 61.572483°/Long -149.505370°. Lucille Creek

<sup>1</sup> Map(s)/figure(s) are attached to the AJD provided to the requestor.

<sup>2</sup> If the navigable water is not subject to the ebb and flow of the tide or included on the District’s list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

<sup>3</sup> A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



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Tributaries ((a)(2) waters):			
(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
			discharges into Meadow Creek, which in turn discharges into Big Lake, an A(1) waters of the U.S.

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):			
(a)(3) Name	(a)(3) Size	(a)(3) Criteria	Rationale for (a)(3) Determination
Lacustrine Limnetic Permanently Flooded Unconsolidated Bottom	58 acre(s)	(a)(3) Lake/pond or impoundment of a jurisdictional water contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Jacobsen Lakes and associated wetland complex drains into Lucille Creek, which drains into Meadow Creek, and finally into Big Lake.

Adjacent wetlands ((a)(4) waters):			
(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination
Palustrine continuously saturated deciduous shrub adjacent to Jacobsen Lake	3.35 acre(s)	(a)(4) Wetland abuts an (a)(1)- (a)(3) water.	Wetlands are adjacent to Jacobsen Lake.

**D. Excluded Waters or Features**

Excluded waters ((b)(1) – (b)(12)): <sup>4</sup>			
Exclusion Name	Exclusion Size	Exclusion <sup>5</sup>	Rationale for Exclusion Determination
(b)(1) Palustrine Seasonally flooded- saturated persistent emergent	1.72 acre(s)	(b)(1) Non- adjacent wetland.	Wetlands are separated from Jacobsen Lake and associated wetlands by uplands.

**III. SUPPORTING INFORMATION**

**A. Select/enter all resources** that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

- Information submitted by, or on behalf of, the applicant/consultant: [ABR Wetland Delineation of July 2021 submitted to the Corps on July 19, 2021.](#)

This information is sufficient for purposes of this AJD.

<sup>4</sup> Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.

<sup>5</sup> Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



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Rationale: Initial March Wetland Delineation using desktop tools was insufficient and included only parcel parcel 28487. Applicant waited to collect field data during the growing season and submitted a new wetland delineation report. This new report included two adjacent parcels 28487 and 57102 located at the intersection of the Parks Highway and Stanley Road in Wasilla, Alaska, and provided field wetland determination datasheets.

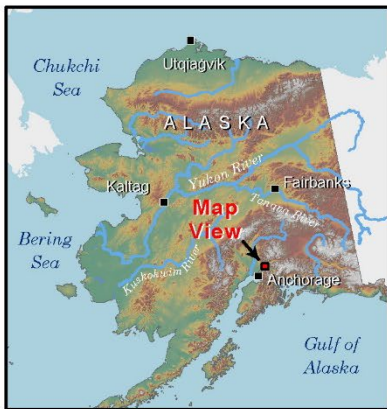
- Data sheets prepared by the Corps: Title(s) and/or date(s).
- Photographs: Other: Site photos provided on 2021 Wetland Delineation Report by ABR.
- Corps site visit(s) conducted on: Date(s).
- Previous Jurisdictional Determinations (AJDs or PJDs): POA-2015-00357
- Antecedent Precipitation Tool: provide detailed discussion in Section III.B.
- USDA NRCS Soil Survey: GSSURGO KMZ layer.
- USFWS NWI maps: NWI KMZ layer.
- USGS topographic maps: Title(s) and/or date(s).




**Other data sources used to aid in this determination:**

Data Source (select)	Name and/or date and other relevant information
USGS Sources	Google Earth site location map, May 2020, July 2018, October 2012.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	AJD MFR on file and POA-2015-00357 admin record.
State/Local/Tribal Sources	N/A.
Other Sources	N/A.

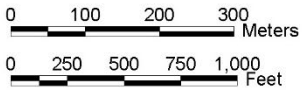
**B. Typical year assessment(s):** The meteorological station nearest to the study area with both long-term averages and daily precipitation values for the current season is the Eagle River Nature Center station located approximately 20 miles to the south (see Arguez et al. [2012] and Menne et al. [2012]). Compared to long-term averages for the Eagle River Nature Center, mean air temperatures during April–June 2021 were within 1°C of normal, but less than half the normal precipitation occurred (Table 1). To place the observed hydrological conditions in context, ABR performed a precipitation analysis similar to the USACE’s Antecedent Precipitation Tool (APT), which involves summarizing precipitation data from the nearest meteorological stations and filling any missing records with data from the next nearest station. Current year 30-day rolling precipitation sums were compared with 30 years of 30-day rolling precipitation sums at the 30th and 70th percentiles, which are interpreted as normal conditions by the NWPR (Figure 3 attached). The Eagle River Nature Center station, the nearest station to the study area with both long-term and current-year precipitation, provided the bulk of the data for the APT. The remaining data gaps were filled with data from 7 other stations within 27 miles of the study area. Figure 3 suggests that precipitation had been within the normal range in the study area since late April 2021, and that typical conditions occurred at the site during the field survey.

**C. Additional comments to support AJD:** N/A or provide additional discussion as appropriate.



-  Study Area
-  MSB Parcels<sup>1</sup>
-  NHD Streams<sup>2</sup>

Notes:  
<sup>1</sup> Cadastral parcels from Matanuska-Susitna Borough, accessed here: <https://www.matsugov.us/gis-downloads/>  
<sup>2</sup> U.S. Geological Survey, 2019, National Hydrography Dataset (ver. USGS National Hydrography Dataset High Resolution (NHD) for Hydrologic Unit (HU) 10 – City of Anchorage-Frontal Cook Inlet (1902040108), accessed August 14, 2019 at URL <https://www.usgs.gov/core-science-systems/ngp/national-hydrography/access-national-hydrography-products>



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
 Copyright © 2013 National Geographic Society, i-cubed.  
 Fig1\_Parks\_Stanley\_Wetlands\_SA\_21-260.mxd; 15 July 2021

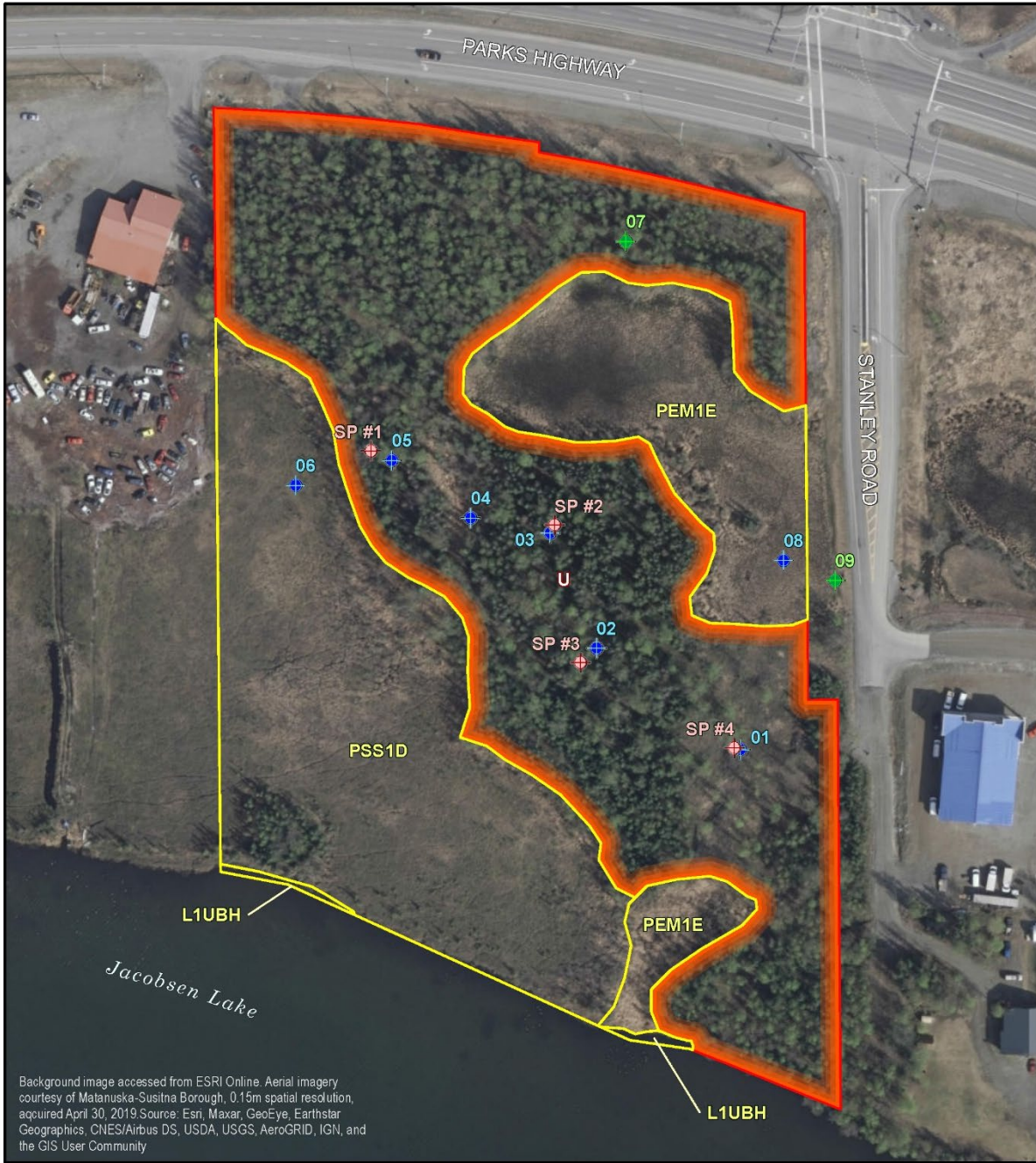
**Figure 1.**  
**Parks and Stanley**  
**Wetlands Study Area,**  
**Alaska, 2021.**  
**Centroid: -149.5432,61.5828)**

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map prepared by:  
 ABR, Inc. — Environmental Research & Services

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project proponent: Fike Industrial Construction, LLC

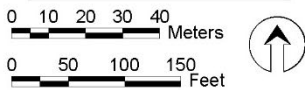


Background image accessed from ESRI Online. Aerial imagery courtesy of Matanuska-Susitna Borough, 0.15m spatial resolution, acquired April 30, 2019. Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NWI Code <sup>1</sup>	NWI Description
<b>Waters</b>	
L1UBH	Lacustrine Limnetic Permanently Flooded Unconsolidated Bottom
<b>Wetlands</b>	
PEM1E	Palustrine Seasonally Flooded-Saturated Persistent Emergent
PSS1D	Palustrine Continuously Saturated Broad-leaved Deciduous Scrub-Shrub
<b>Uplands</b>	
U	Upland

<sup>1</sup> National Wetland Inventory (NWI) nomenclature based on FGDC 2013.

	Wetland
	Upland
	Map Verification Plot
	Wetland Determination Plot
	USACE Requested Sampling Plot



**Figure 2.**  
**Wetlands and Waters of the Parks and Stanley Wetlands Study Area, Alaska, 2021.**

map prepared by:  
ABR, Inc. — Environmental Research & Services

14 July 2021	Fig2_Parks_Stanley_Wetlands_21-260.mxd
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Daily Precipitation, EAGLE\_RVR\_NATURE\_CTR station  
2021 spring and summer

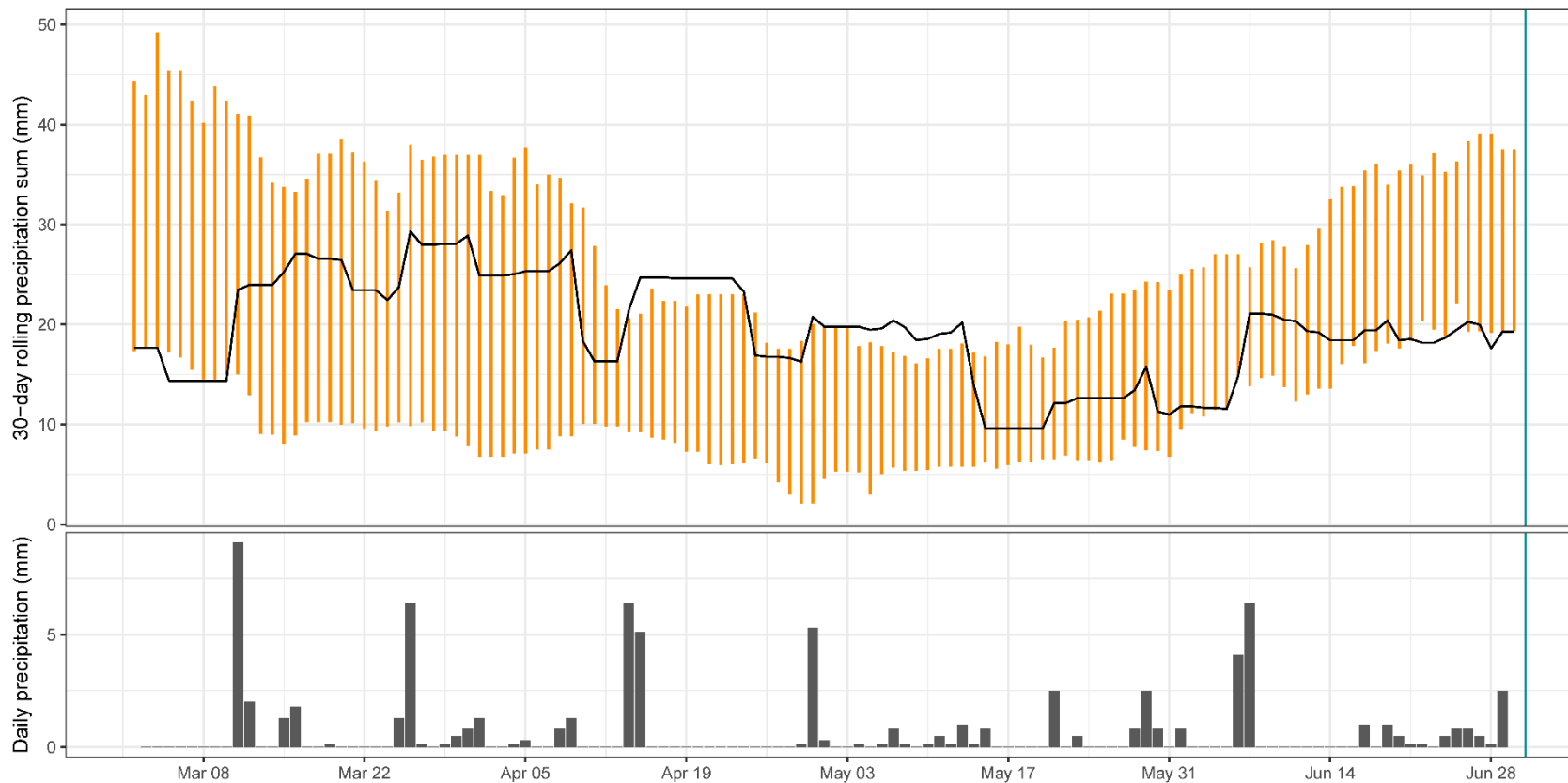


Figure 3. Antecedent Precipitation for the Parks and Stanley wetlands study area, Alaska, 2021.