



**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): 12/4/2020
 ORM Number: POA-2019-00676
 Associated JDs: N/A or ORM numbers and identifiers (e.g. HQS-2020-00001-MSW-MITSITE).
 Review Area Location¹: State/Territory: Alaska City: JBER County/Parish/Borough: Municipality of Anchorage
 Center Coordinates of Review Area: Latitude 61.265857° N Longitude 149.793414°

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)²

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

C. Clean Water Act Section 404

| Territorial Seas and Traditional Navigable Waters ((a)(1) waters): ³ | | | | |
|---------------------------------------------------------------------------------|-------------|------|-----------------|------------------------------------|
| (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 |
| N/A. | N/A. | N/A. | N/A. | N/A. |

| 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 |
| N/A. | N/A. | N/A. | N/A. | N/A. |

| Adjacent wetlands ((a)(4) waters): | | | | |
|------------------------------------|-------------|------|-----------------|------------------------------------|
| (a)(4) Name | (a)(4) Size | | (a)(4) Criteria | Rationale for (a)(4) Determination |
| N/A. | N/A. | N/A. | N/A. | N/A. |

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

² 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.

³ 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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D. Excluded Waters or Features

| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | | |
|--------------------------------------------------|----------------|---------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | | Exclusion ⁵ | Rationale for Exclusion Determination |
| NWD1 | 0.35 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| NWD4 | 0.19 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| NWD6 | 0.29 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| NWD8 | 6.18 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| NWD11 | 0.49 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW2 | 4.51 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW9 | 0.18 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |

⁴ 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.

⁵ 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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| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | | |
|--------------------------------------------------|----------------|---------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | | Exclusion ⁵ | Rationale for Exclusion Determination |
| EW5 | 2.66 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW8 | 1.11 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW12 | 1.46 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW5(ref) | 0.10 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW16 | 0.26 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW18 | 0.71 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| EW12(Ref) | 0.09 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |



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| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | | |
|--------------------------------------------------|----------------|---------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | | Exclusion ⁵ | Rationale for Exclusion Determination |
| 2014-531-W3-w2 | 0.52 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP7 | 1.04 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP7(ref) | 0.86 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| SW7 | 0.33 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| SW9 | 0.23 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| SW5 | 0.44 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP22 | 0.08 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP1/20/22 | 1.13 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |



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| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | |
|--------------------------------------------------|----------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | Exclusion ⁵ | Rationale for Exclusion Determination |
| WWD2, WRADP6 | 0.31 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP12/13/16 | 4.31 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| SW2/3, WPP2/3, WRADP8/9/10/11/18 | 18.87 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| WRADP4/5 | 1.2 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| SW2(ref) | 0.35 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| SW6 | 0.08 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP3 | 0.12 acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. |



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| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | | |
|--------------------------------------------------|----------------|---------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | | Exclusion ⁵ | Rationale for Exclusion Determination |
| | | | | These depressions are surrounded by uplands have no distinguishable inlet or outlet. |
| WRADP19/21 | 2.31 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| WRADP14/15 | 1.64 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| WRADP17 | 5.2 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| WWD4 | 1.17 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| WWD4(ref) | 0.78 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |



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| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | | |
|--------------------------------------------------|----------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | | Exclusion ⁵ | Rationale for Exclusion Determination |
| WWD6 | 0.64 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| WWD1 | 0.56 | acre(s) | (b)(1) Non-adjacent wetland. | Isolated wetland located within Elmendorf Moraine which is covered in kettle wetlands left by melting blocks of ice during glacial retreat. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression is surrounded by uplands has no distinguishable inlet or outlet. |
| PAB (Pond) | 0.57 | acre(s) | (b)(1) Lake/pond or impoundment that does not contribute surface water flow directly or indirectly to an (a)(1) water and is not inundated by flooding from an (a)(1)-(a)(3) water in a typical year. | Unnamed pond is within the Elmendorf Moraine which is covered by kettles. Kettles on the moraine created by melting blocks of ice during glacial retreat can contain ponds/lakes. Hydrologically connected to Fish and Triangle Lake below the surface of a dense floating mat, however, this depression has no distinguishable inlet or outlet. |
| Fish Lake | N/A. | acre(s) | (b)(1) Lake/pond or impoundment that does not contribute surface water flow directly or indirectly to an (a)(1) water and is not inundated by flooding from an (a)(1)-(a)(3) water in a typical year. | Fish Lake is within the Elmendorf Moraine which is covered by kettles. Kettles on the moraine created by melting blocks of ice during glacial retreat can contain ponds/lakes. Hydrologically connected to Triangle lake below the surface of a dense floating mat, however, this depression has no distinguishable inlet or outlet. |
| Triangle Lake | N/A | acre(s) | (b)(1) Lake/pond or impoundment that does not contribute surface water flow directly or | Triangle Lake is within the Elmendorf Moraine which is covered by kettles. Kettles on the moraine created by melting blocks of ice during glacial retreat can contain ponds/lakes. Hydrologically connected to Fish Lake below the |

indirectly to an



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| Excluded waters ((b)(1) – (b)(12)): ⁴ | | | |
|--------------------------------------------------|----------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Exclusion Name | Exclusion Size | Exclusion ⁵ | Rationale for Exclusion Determination |
| | | (a)(1) water and is not inundated by flooding from an (a)(1)-(a)(3) water in a typical year. | surface of a dense floating mat, however, this depression has no distinguishable inlet or outlet. |

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: Wetland Delineation Report prepared by U.S. Army Corps of Engineers, Alaska District, Civil Works, Environmental Resources Section dated September 2020.

This information is sufficient for purposes of this AJD.

Rationale: Regulatory participated during the wetland delineation field work and conducted extensive reconnaissance on areas of lower relief to determine whether surface water connection existed; no channelized water connection was found.

- Data sheets prepared by the Corps: As provided in the 2020 Wetland Delineation Report in file.
- Photographs: Aerial and Other: As provided in the 2020 Wetland Delineation Report in file.
- Corps site visit(s) conducted on: July 13th through July 17th 2020
- Previous Jurisdictional Determinations (AJDs or PJDs): ORM Number(s) and date(s).
- Antecedent Precipitation Tool: provide detailed discussion in Section III.B.
- USDA NRCS Soil Survey: NRCS Online Soil Survey
- USFWS NWI maps: NWI Online Web mapper
- USGS topographic maps: USGS Online National Map

Other data sources used to aid in this determination:

| Data Source (select) | Name and/or date and other relevant information |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USGS Sources | N/A. |
| USDA Sources | NRCS Soils Map for the area. |
| NOAA Sources | N/A. |
| USACE Sources | N/A. |
| State/Local/Tribal Sources | N/A. |
| Other Sources | 1) Joint Base Elmendorf-Richardson (JBER) Wetland Inventory; LiDaR infrared elevation data 2) Memorandum for the Record dated December 4th, 2020 on administrative file. |

B. Typical year assessment(s): The APT Tool was used by creating a graph and table titled, “Antecedent Precipitation v Normal Range, which is based on NOAA’s Daily Global Historical Climatology Network” (see attached). The first observation date was the first day of field data collection: July 15, 2020. The periodic range was the 30-day period preceeding the first observation date. The geographic range included weather stations within 30 miles from wetland delineation study area. The wetness conditions on the field site date (



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July 15, 2020) was determined to be normal; in June it was determined to be dry; and in May it was determined to be dry. The Natural Resources Conservation Service (NRCS) National Water Climate Center's precipitation data for Anchorage Hillside SNOTEL site indicated that precipitation for 2020 was above average with 22.7" for the calendar year on July 6th compared to the 1981-2010 average of 17.6". Overall, the conditions were determined to be normal for the site.

- C. Additional comments to support AJD:** In conclusion a total of 60.75 acres of wetlands and 8.18 acres of fresh water lakes were determined to be excluded as per Exclusion Class (b)(1).