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): September 8, 2020
ORM Number: NAO-2007-02372
Associated JDs: NAO-2007-02372
Review Area Location[1]:
State/Territory: VA City: County/Parish/Borough: Prince William County
Center Coordinates of Review Area: Latitude 38.702768 Longitude -77.480346

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

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

Tributaries ((a)(2) waters):

(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
S-1	11151.06 feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This perennial tributary has an ordinary high water mark (OHWM), bed and bank, and flows into Powells Creek, which then flows into the Potomac River.
S-10	602.5 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-11	195.6 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-12, then into S-13, then into S-1, then into Powells Creek, which then flows into the Potomac River.

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[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 independent 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.
[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.

S-12	700.69 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-13, then flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-13	210.94 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-14	204.82 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-18	553.05 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-19	11.69 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-2	23.45 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This perennial tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-20	38.65 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-19, then flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-21	77.07 feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This perennial tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-22	274.52 feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This perennial tributary has an OHWM, bed and bank, and flows into S-22, then flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-3	374.62 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-2, then into S-1, then into Powells Creek, which then flows into the Potomac River.
S-4	1322.03 feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-2, then into S-1, then into Powells Creek, which then flows into the Potomac River.
S-5	344.94 feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This perennial tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-6	167.73 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.

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S-7	126.58 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-8	66.86 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.
S-9	524.76 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This intermittent tributary has an OHWM, bed and bank, and flows into S-1, then into Powells Creek, which then flows into the Potomac River.

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
W-100	0.0115 acres	(a)(3) Lake/pond or impoundment of a jurisdictional water inundated by flooding from an (a)(1)-(a)(3) water in a typical year	This POW wetland with an OHWM is within a FEMA floodplain and is contiguous with PFO wetland W-45 and PEM W-46, which are contiguous with the perennial tributary S-1.

Adjacent wetlands ((a)(4) waters):

(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination
W-1	0.1179 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water offsite. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-10	0.7586 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-101	0.0515 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-102	0.0515 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-103	0.0112 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2)

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			water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-104	0.0271 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement
W-105	0.0957 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-106	0.026 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-107	0.6163 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-108	0.288 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-109	0.0083 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-11	0.0243 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.

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W-110	0.0053 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-111	0.0171 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-112	0.1459 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-113	0.057 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-114	0.0111 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-115	0.0078 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-116	0.0314 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement
W-12	0.0056 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of

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W-13	0.1369 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-14	0.0342 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-15	0.1285 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-16	0.0089 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-17	0.0025 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-2, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-18	0.0166 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-19	0.0174 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-2	0.0306 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water,

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W-20	0.0378 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-21	0.0129 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-22	0.0237 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-23	0.0947 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-24	3.6019 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFOwetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-25	0.0243 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-26	0.0044 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-27	0.0058 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.

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[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 independent 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.
[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.

W-28	0.0046 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-29	0.0273 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-3	0.2472 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-30	0.0028 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-31	0.0106 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-32	0.0059 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-33	0.0352 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-34	0.0594 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-35	0.4852 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-5, a perennial stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of

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			the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-36	0.622 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-37	0.0113 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-38	0.0152 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-39	0.2152 acres	(a)(4) Wetland separated from an (a)(1)-(a)(3) water only by a natural feature	The A4WETNATSEP PFO wetland is separated from an (a)(1)-(a)(3) water by a natural feature, but would have a hydrologic surface connection to W-24, a WETABUT PFO wetland that is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, in a typical year due to topography. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-4	0.3286 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-40	7.9239 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-41	0.5626 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-42	0.0064 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional

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			Supplement.
W-43	0.0117 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-44	0.0326 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-45	3.0379 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-46	0.0112 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-47	0.0682 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-48	0.0051 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-49	0.0013 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-12, an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-5	0.0696 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PSS wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-50	0.0054 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-12, an intermittent stream, an (a)(2)

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			water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-51	0.0066 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-12, an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-52	0.0587 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-12, an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-53	0.0743 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-12, an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-54	0.2375 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-11, an intermittent stream, an (a)(2) water, then flows into S-12, S-11, an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-55	3.0123 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-56	0.0016 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-57	0.0053 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.

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W-58	0.0118 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-59	0.2701 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-6	0.3217 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-60	0.0243 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-61	0.0154 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-62	0.0138 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-63	0.0026 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-64	0.0042 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-65	0.5263 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was

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			determined using the 1987 Manual and Regional Supplement.
W-66	0.0059 acres	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year	The A4WETFLOOD PFO wetland is within a FEMA floodplain and has a hydrologic surface connection between S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-67	0.2136 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-68	0.0075 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-69	0.0274 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-7	0.0046 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-70	0.0065 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-71	0.0043 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-72	2.1697 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-73	0.0268 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water,

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[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.

			which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-74	0.0512 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-75	0.2761 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-76	0.0184 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-77	0.0087 acres	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year	The A4WETFLOOD PFO wetland is within a FEMA floodplain and has a hydrologic surface connection between S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-78	0.0107 acres	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year	The A4WETFLOOD PFO wetland is within a FEMA floodplain and has a hydrologic surface connection between S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-8	0.0376 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-80	0.0059 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-81	0.0048 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.

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W-82	0.1208 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-83	0.5444 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-84	0.0215 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-85	0.012 acres	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year	The A4WETFLOOD PFO wetland is within a FEMA floodplain and has a hydrologic surface connection between S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-86	0.0054 acres	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year	The A4WETFLOOD PFO wetland is within a FEMA floodplain and has a hydrologic surface connection between S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-87	0.1384 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-88	0.2199 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-89	0.0512 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-9	0.0076 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PEM wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was

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			determined using the 1987 Manual and Regional Supplement.
W-90	3.8427 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-91	4.1357 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-92	0.0084 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-93	0.3398 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-94	0.0336 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-95	0.3129 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-96	0.0048 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2) water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-97	0.0057 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	The A4WETABUT PFO wetland is bordering and contiguous to S-19 an intermittent stream, an (a)(2)

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			water, then flows into S-1, a perennial stream, an (a)(2) water, which flows into Powells Creek, an (a)(2) water out of the study area. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.

D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12))[4]:

Exclusion Name	Exclusion Size	Exclusion[5]	Rationale for Exclusion Determination
EX-10	0.7061 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM POW wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff
EX-11	0.0327 acres	(b)(9) Water-filled depression constructed/excavated in upland/non-jurisdictional water incidental to mining/construction or pit excavated in upland/non-jurisdictional water to obtain fill/sand/gravel	The B9DEPPIT PFO wetland is a water-filled depression construction/excavated in uplands incidental to construction of the road.
EX-12	0.5832 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM POW wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
EX-13	0.0165 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM PEM wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
EX-2	0.395 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM POW wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
EX-3	1.2405 acres	(b)(11) Groundwater recharge, water reuse, or a wastewater recycling structure constructed or excavated in upland or in a non-jurisdictional water	The B11REUSE POW wetland was construction and excavated in uplands for the purpose of groundwater recharge, water reuse, or wastewater recycling
EX-4	0.4693 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM POW wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
EX-5	0.3444 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM POW wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.

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EX-6	0.8689 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM POW wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
EX-7	0.3829 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM PEM wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
EX-8	0.3864 acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff	The B10STORM PEM wetland is a stormwater control feature constructed or excavated in upland to convey, treat, infiltrate, or store stormwater runoff.
S-15	285.76 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	The B3EPHEMERAL stream has bed and bank but lacks hydric soils, indicating this stream only has surface water flowing or pooling in direct response to precipitation. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
S-16	467.64 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	The B3EPHEMERAL stream has bed and bank but lacks hydric soils, indicating this stream only has surface water flowing or pooling in direct response to precipitation. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
S-17	94.6 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	The B3EPHEMERAL stream has bed and bank but lacks hydric soils, indicating this stream only has surface water flowing or pooling in direct response to precipitation. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
SW-1	0.0226 acres	(b)(1) Non-adjacent wetland	The B1WETNONADJ PFO wetland does not abut nor is adjacent to an (a)(1)-(a)(3) wetland. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
SW-2	0.0232 acres	(b)(1) Non-adjacent wetland	The B1WETNONADJ PFO wetland does not abut nor is adjacent to an (a)(1)-(a)(3) wetland. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-79	0.007 acres	(b)(1) Non-adjacent wetland	The B1WETNONADJ PFO wetland does not abut nor is adjacent to an (a)(1)-(a)(3) wetland. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-98	0.0194 acres	(b)(1) Non-adjacent wetland	The B1WETNONADJ PFO wetland does not abut nor is adjacent to an (a)(1)-(a)(3) wetland. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.
W-99	0.021 acres	(b)(1) Non-adjacent wetland	The B1WETNONADJ PFO wetland does not abut nor is adjacent to an (a)(1)-(a)(3) wetland. The limits of this wetland was determined using the 1987 Manual and Regional Supplement.

III. SUPPORTING INFORMATION

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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.

X__ Information submitted by, or on behalf of, the applicant/consultant: **Landfill Phase IV**
Prince William County, Virginia
WSSI #22999.03
Waters of the U.S. (Including Wetlands)
Delineation and Resource Protection Area Evaluation
March 9, 2020, Revised April 24, 2020 & May 11, 2020
This information *is* sufficient for purposes of this AJD.
Rationale: *N/A.*

___ Data sheets prepared by the Corps: *Title(s) and/or date(s).*

_X_ Photographs: *(NA, aerial, other, aerial and other)* EXHIBIT 14
STUDY AREA PHOTOGRAPHS
PRINCE WILLIAM COUNTY LANDFILL PHASE IV, WSSI #22999.03

___ Corps Site visit(s) conducted on: *Date(s).*

_X_ Previous Jurisdictional Determinations (AJDs or PJDs): *NAO-2007-02372 June 25, 2007.*

___ Antecedent Precipitation Tool: *provide detailed discussion in Section III.B.*

_X_ USDA NRCS Soil Survey: Soils Map, Prince William County
Landfill Phase IV, WSSI #22999.03, Exhibit 4

_X_ USFWS NWI maps: Digital National Wetlands Inventory Map
Prince William County Landfill Phase IV, WSSI #22999.03, Exhibit 3.

_X_ USGS topographic maps: *Independent Hill, VA 1998., Exhibit 2*

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	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
Prince William County Govt	Spring 1937 Black and White Imagery Prince William County Landfill Phase IV, WSSI #22999.03, Exhibit 7
FEMA map	FEMA Digital Flood Insurance Rate Map Prince William County Landfill Phase IV, WSSI #22999.03, Exhibit 6

Typical year assessment(s): Stream evaluation methods developed by the North Carolina Division of Water Quality (NCDWQ)[2] and the Fairfax County Department of Public Works and Environmental Services (DPWES)[3] were applied in the field to determine whether the streams on the study area and within 100 feet of the study area are ephemeral, intermittent, or perennial. WSSI reviewed the U.S. Drought Monitor (Exhibit 11a and Exhibit 11b) maps for the week preceding the January

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[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 independent 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.
[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.

and March delineation field work, and the Palmer Drought Severity Index (Exhibit 11c) for the week preceding the March delineation field work to determine if drought conditions that could affect stream flows were present at the time of the stream assessment field work. The U.S. Drought Monitor shows this area was not experiencing drought conditions at the time of the January and March field work, and the Palmer Index shows that this area was in a period of near normal rainfall during the March delineation field work.

B. **Additional comments to support AJD:** Field work was performed on January 28-31, on February 3, 4 and 12, 2020. On March 26 and 27, 2020, a supplemental delineation was conducted within the expanded study area to include additional areas as reflected in this revised report.

Drainage ditch (E-1) located in the southeastern portion of the study area, (Exhibit 14, Photos #59 and #60; Attachment I: Sheet 7 of 7) is not a jurisdictional wetland or other water of the U.S. Non-tidal drainage ditches excavated in uplands to convey stormwater are not generally considered to be waters of the U.S. per the commentary for 33 CFR Section 328.3, in the "Final Rule for Regulatory Programs of the Corps of Engineers" (Fed. Reg. Vol. 51, No. 219, pg. 41217).

In addition, the feature in the northern portion of the study area (E-11) is a non-jurisdictional erosional feature that lacked an ordinary high water mark, evidence of flow and hydric soils (Attachment I: Sheet 2 of 7).

Settling basins (E-2, E-4 though E-8 and E-10) located along the southern study area boundary are not jurisdictional wetlands or other waters of the U.S (Attachment I: Sheets 1, 3, 4, 6 and 7; Exhibit 14, Photos #76, #78, #79 and #80). The leachate lagoon (E-3) located along the southeastern study area boundary is not a jurisdictional wetland or other water of the U.S. Ponds that were created by excavating and/or diking dry land to collect and retain water for stock watering (i.e., farm ponds created in an upland field), settling basins or irrigation are not generally considered waters of the U.S. per commentary for 33 CFR Section 328.3, in the "Final Rule for Regulatory Programs of the Corps of Engineers" (Fed. Reg. Vol. 51, No. 219, pg. 41217).

The settling basin and associated stormwater ditch (E-9) located in the southern portion of the study area are not jurisdictional waters of the U.S. (subject to the COE concurrence) (Attachment I: Sheet 3 of 7; Exhibit 14, Photo #82) . The settling basin and associated stormwater ditch are not jurisdictional waters of the U.S.

[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 independent 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.
[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.