

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-JUL-2021

ORM Number: SPA-2021-00175

Associated JDs: N/A or ORM numbers and identifiers (e.g. HQS-2020-00001-MSW-MITSITE)

Review Area Location¹: Homestake Twin Lakes Vault below dam

State/Territory: CO City: County/Parish/Borough: Lake County

Center Coordinates of Review Area: Latitude 39.076265 Longitude -106.301845

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 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).									
	are waters or wa	ater features excluded fro	m Clean Water Act jurisdiction within the revie						
	complete table in		,						
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Divore end	l Llawbawa Aata	£4900 Saation 40 /\$ 40\	2						
		f 1899 Section 10 (§ 10)							
§ 10 Name	e § 10 Size N/A	§ 10 Criteria	Rationale for § 10 Determination						
		onal Navigable Waters ((a							
(a)(1) Nam	e (a)(1) Size	(a)(1) Criteria	Rationale for (a)(1) Determination						
1477	1.22.	1077	1.47.						
	((a)(2) waters):								
(a)(2) Nam	. , , , ,	(a)(2) Criteria	Rationale for (a)(2) Determination						
	ne (a)(2) Size N/A	N/A	N/A						
(a)(2) Nam N/A Lakes and (a)(3) Nam	N/A ponds, and impo	oundments of jurisdictions (a)(3) Criteria	N/A al waters ((a)(3) waters): Rationale for (a)(3) Determination						
(a)(2) Nam N/A Lakes and I	N/A ponds, and impo	N/A oundments of jurisdictions	N/A al waters ((a)(3) waters):						
(a)(2) Nam N/A Lakes and p (a)(3) Nam N/A Adjacent we	N/A ponds, and imponds (a)(3) Size N/A etlands ((a)(4) w	n/A pundments of jurisdictions (a)(3) Criteria N/A vaters):	N/A al waters ((a)(3) waters): Rationale for (a)(3) Determination N/A						
(a)(2) Nam N/A Lakes and J (a)(3) Nam N/A	N/A ponds, and imponds (a)(3) Size N/A etlands ((a)(4) w	oundments of jurisdictions (a)(3) Criteria N/A	N/A al waters ((a)(3) waters): Rationale for (a)(3) Determination						

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.



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Excluded Waters or Features

Excluded waters $((b)(1) - (b)(12))^4$:

Exclusion Name	Exclusion Size	Exclusion⁵	Rationale for Exclusion Determination
2021-00175	1.6 acres	(b)(1) Non-adjacent wetland	Isolated Wetlands
Homestake Twin			
Lakes AJD			

III. SUPPORTING INFORMATION

Α.	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: Title(s) and date(s).
	This information (is/is not/is and is not) sufficient for purposes of this AJD.
	Rationale: N/A or describe rationale for insufficiency (including partial insufficiency).
	Data sheets prepared by the Corps: Title(s) and/or date(s).
	Photographs: (NA, aerial, other, aerial and other) Title(s) and/or date(s).
	Corps Site visit(s) conducted on: Date(s).
	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: Title(s) and/or date(s).
	USFWS NWI maps: Title(s) and/or date(s).
	USGS topographic maps: <i>Title(s)</i> and/or date(s).
	USGS topographic maps: Title(s) and/or date(s). Other data sources used to aid in this determination:

ner 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.
State/Local/Tribal Sources	N/A.
Other Sources	N/A.

- B. Typical year assessment(s): N/A or provide typical year assessment for each relevant data source used to support the conclusions in the AJD.
 - C. Additional comments to support AJD: The isolated wetlands occurs in the center of the project area where the Vault structure is. Present seepage from the existing structure is the sole source that maintains the existence of the isolated wetlands. As a result of the seepage, wetlands occur adjacent to the structure and remain as isolated wetlands adjacent to the existing Homestake Vault. The wetland would cease to exist if the vault was no longer in use, as there appears to be no other water source near the wetland.

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.

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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.





Mr. Kiel Downing
Denver Regulatory Office
U.S. Army Corps of Engineers
9307 South Wadsworth Boulevard
Littleton, Colorado 80128-6901

RE: Request for Approved Jurisdictional Determination for Homestake Twin Lakes Valve Vault Construction, Lake County, Colorado

Dear Mr. Downing,

On behalf of Dewberry Engineers, Inc. (Dewberry), ERO Resources Corporation (ERO) is requesting an approved Jurisdictional Determination (JD) for an isolated wetland adjacent to the existing Homestake Vault located east of Twin Lakes Reservoir in Lake County, Colorado (project area; Figure 1). Dewberry, on behalf of Colorado Springs Utilities, is proposing improvements to the Homestake Vault that would require unavoidable impacts on an adjacent wetland. On September 17, 2020, ERO delineated the project area for any potential jurisdictional waters.

The project area is immediately east of Twin Lakes Reservoir in Section 23, Township 11 South, Range 80 West of the 6th Principal Meridian in Lake County, Colorado (Figure 1). The UTM coordinates for the approximate center of the project area are NAD 387390mE, 4326046mN, Zone 13 North. The longitude/latitude of the project area is 106.301845°W/39.076265°N. The elevation of the project area is approximately 9,180 feet above sea level. Photo points of the project area are shown on Figure 2, and the photo log is attached.

The project area is bounded by Lake Creek to the north, County Road 25 to the east and south, and Twin Lakes Reservoir to the west. The project area consists primarily of shrublands dominated by big sagebrush (Artemisia tridentata) and rubber rabbitbrush (Ericameria nauseosa) with an understory of smooth brome (Bromus inermis), crested wheatgrass (Agropyron cristatum), western wheatgrass (Pascopyrum smithii), meadow fescue (Schedonorus pratensis), and Sandberg bluegrass (Poa secunda) (Photos 1 and 2). Lake Creek occurs along the northern boundary of the project area, and the banks of Lake Creek consist of boulder and riprap (Photo 3). The existing Homestake Vault occurs in the center of the project area, and water was seeping from the existing structure. As a result of the seepage, wetlands occur adjacent to the structure and are dominated by meadow foxtail (Alopecurus pratensis) and Baltic rush (Juncus arcticus) (Figure 2; Photo 4). The wetland occurs in a minor depression in the project area adjacent to the existing Homestake Vault. The wetland is surrounded entirely by upland vegetation, and there does not appear to be a surface connection between the wetland and Lake Creek to the north. Additionally, it is ERO's opinion that the wetland is artificially irrigated by seepage from the vault and that the wetland would cease to exist if the vault was no longer in use, as there appears to be no other water source near the wetland.

Denver 1842 Clarkson Street Denver, CO 80218 303.830.1188

Durango 1015 ½ Main Avenue Durango, CO 81301 970.422.2136

Hotchkiss P.O. Box 932 161 South 2nd Street Hotchkiss, CO 81419 970.872.3020

Idaho 4001 East Main Street Emmett, ID 83617 208.365.7684 Based on the information provided, ERO has the following questions:

- Does the U.S. Army Corps of Engineers agree that the wetland in the project area is artificial and that the wetland would revert to upland should seepage water to that area cease?
- Does the U.S. Army Corps of Engineers agree that the wetland is isolated from Lake Creek to the north and that there is no hydrologic connection between the wetland and Lake Creek?
- Does the U.S. Army Corps of Engineers have enough information to determine the jurisdictional status of the identified wetland in the project area? If so, please provide an approved JD. If not, please provide a list of additional information needed to provide an approved JD.

Please contact me with any questions at hsnieder@eroresources.com.

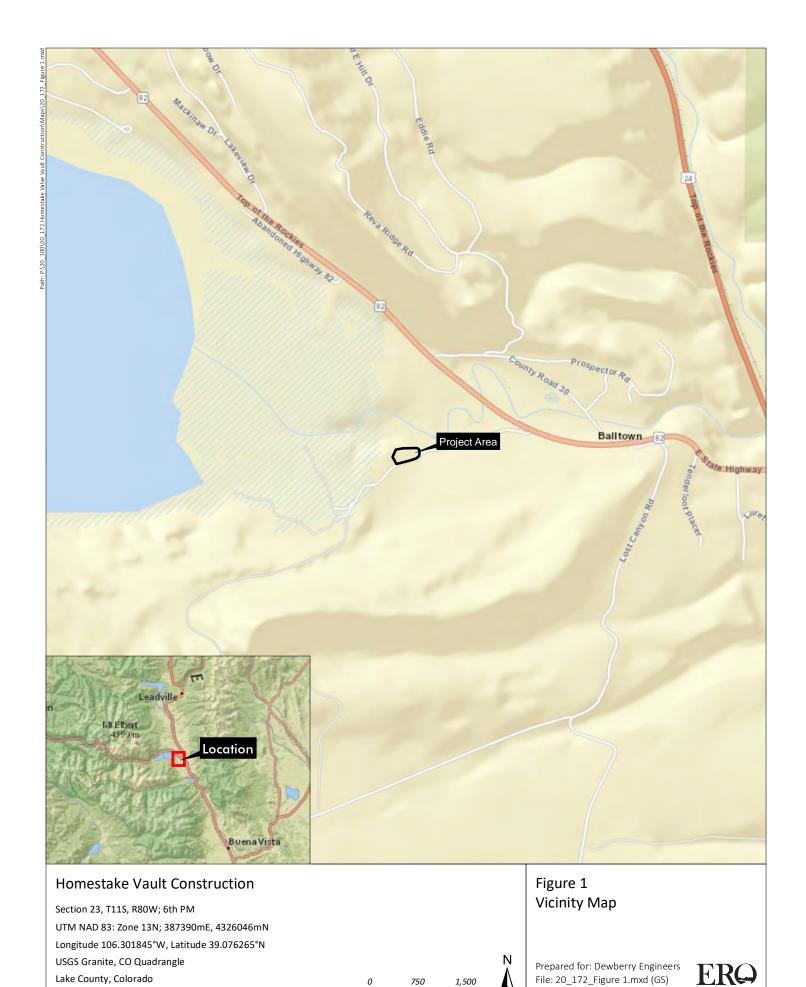
Sincerely,

Hidde Snieder Biologist

Hidde Smeder

cc: Michael Kainer – Dewberry Engineers, Inc.

Attachments: Figures 1 and 2, Photo Log, and Wetland Datasheets



September 24, 2020

ERO Resources Corp.



Data Point

Wetland (0.031 ac)

Photo Point



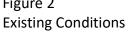
Ordinary High Water Mark (0.888 ac)

Limit of Delineation



Project Area Boundary

Image Source: Google Earth©, October 2019



Prepared for: Dewberry Engineers File: 20_172_Figure 2.mxd (GS) October 27, 2020





Photo 1 - Overview of the uplands in the project area. View is to the northeast.



Photo 2 - Overview of the uplands in the project area. View is to the southeast.



Photo 3 - Overview of Lake Creek adjacent to the project area. View is to the east.



Photo 4 - Overview of wetlands in the project area. View is to the east.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Homestake Vault Construction	(City/County	Lake Cou	nty	Sampling Date: 9-17-202	20
Applicant/Owner: Dewberry				State: Co	Sampling Point: DP1	
Investigator(s): H. Snieder	;					
					Slope (%):	0
Subregion (LRR): G						
Soil Map Unit Name: Pierian soils, 20 to 45 percent slopes					cation:	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes 1	/			
Are Vegetation, Soil, or Hydrologysi					present? Yes V)
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe		
SUMMARY OF FINDINGS - Attach site map s	showing	samplin	g point l	ocations, transects	, important features	s, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes ✓ No Yes ✓ No)	with	e Sampled in a Wetlar	nd? Yes_ √	/ No	
Wetlands in depression	supp	orte	d by	seepage f	rom structu	ıre
VEGETATION – Use scientific names of plant						
Tree Stratum (Plot size:) 1	% Cover	Dominant Species?	Status	Number of Dominant S That Are OBL, FACW,	pecies	(A)
2				Total Number of Domin Species Across All Stra	•	(B)
4		= Total Co		Percent of Dominant Sport That Are OBL, FACW,		(A/B)
1					Multiply by: x 1 =	
3				1	x 2 =	
4					x 3 =	
5					x 4 =	
Herb Stratum (Plot size: 5ft.)		= Total Co	ver		x 5 =	
1. Alopecurus pratensis	20	Υ	FAC	Column Totals:	(A)	_ (B)
2. Juncus arcticus	40	<u>Y</u>	FACW		c = B/A =	
3. Epilobium ciliatum	15	N	FACW	Hydrophytic Vegetation	·	
4. Carex praegracilis	10	N	FACW	1 - Rapid Test for I		
5. Carex nebrascensis	10	N	OBL	✓ 2 - Dominance Tes		
6				3 - Prevalence Inde	ex is ≤3.0 ¹	
7					Adaptations ¹ (Provide supp	orting
8				5 - Wetland Non-V	s or on a separate sheet)	
9					phytic Vegetation ¹ (Explain	n)
10	-	-			il and wetland hydrology m	
11	95			be present, unless distr		iust
Woody Vine Stratum (Plot size:)		= Total Cov	/er			
1				Hydrophytic		
2				Vegetation	s V No	
		= Total Cov	/er	Present? Ye	es No	
% Bare Ground in Herb Stratum				<u> </u>		
i Nemalko.						

SOIL Sampling Point: DP1

Depth	Matrix	to the det	needed to docum	K Feature		or confirm	the absence (of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/1	100					SaLo	
2-14	10YR 4/2	90	7.5YR 5/8	10	С	M	SaLo	
		-						
		-		-		· -		
-				-				
			·					
¹Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, CS	=Covere	d or Coate	ed Sand Gra	ains. ² Loca	ation: PL=Pore Lining, M=Matrix.
			LRRs, unless other					s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S	S5)			2 cm	Muck (A10)
	ipedon (A2)		Stripped Matrix					Parent Material (TF2)
Black His	` '		Loamy Mucky M	•		t MLRA 1)		Shallow Dark Surface (TF12)
	n Sulfide (A4) I Below Dark Surfac	o (A11)	✓ Loamy Gleyed Matrix		2)		Othe	r (Explain in Remarks)
	rk Surface (A12)	e (ATT)	Redox Dark Sur	. ,			³ Indicator	s of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted Dark S	` ,				nd hydrology must be present,
-	leyed Matrix (S4)		Redox Depressi		,			disturbed or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil I	Present? Yes No
Remarks:								
HYDROLO	GY							
	Irology Indicators:							
_			d; check all that apply	()			Secon	dary Indicators (2 or more required)
-	Water (A1)		Water-Stai		es (B9) (e	except	· ·	ater-Stained Leaves (B9) (MLRA 1, 2,
	ter Table (A2)		· 	l, 2, 4A, a	. , ,			4A, and 4B)
Saturatio			Salt Crust		,		Dr	ainage Patterns (B10)
Water Ma	` '		Aquatic Inv	` '	s (B13)			y-Season Water Table (C2)
	t Deposits (B2)		Hydrogen S					aturation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Oxidized R	hizosphe	res along	Living Root	ts (C3) Ge	eomorphic Position (D2)
Algal Ma	t or Crust (B4)		Presence of	of Reduce	ed Iron (C	4)	Sh	nallow Aquitard (D3)
Iron Dep	osits (B5)		Recent Iron	n Reducti	on in Tille	d Soils (C6)) <u>√</u> FA	AC-Neutral Test (D5)
	Soil Cracks (B6)					01) (LRR A)		aised Ant Mounds (D6) (LRR A)
	on Visible on Aerial			lain in Re	emarks)		Fr	ost-Heave Hummocks (D7)
-	Vegetated Concave	e Surface ([B8)					
Field Observ		,						
Surface Water			No / Depth (inc					
Water Table			No Depth (inc					
Saturation Pr (includes cap		es <u>v</u>	No Depth (inc	thes): <u> </u>		Wetla	and Hydrology	Present? Yes No
		gauge, m	onitoring well, aerial p	hotos, pr	evious ins	spections), i	f available:	
Remarks:								
Saturated at s	surface by seepage	from struct	ure.					

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Applicant/Owner: Dewberry Investigator(s): H. Snieder Section, Township, Range: Section 23, T1S, R80W Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): O Subregion (LRR): G Lat: 39.076386° Long: -106.301999° Datum: Soil Map Unit Name: Pierian soils, 20 to 45 percent slopes Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No V Is the Sampled Area within a Wetland	
Investigator(s): H. Snieder Section, Township, Range: Section 23, T1S, R80W Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): OSubregion (LRR): Soil Map Unit Name: Pierian soils, 20 to 45 percent slopes NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, explain Soil Present? Yes No Vegetation Present	
Landform (hillslope, terrace, etc.): Terrace	
Subregion (LRR): G Lat: 39.076386° Long: -106.301999° Datum: Soil Map Unit Name: Pierian soils, 20 to 45 percent slopes NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, explain any answers in Remarks.) Hydrophytic Vegetation Present? Yes No Ves No	
Soil Map Unit Name: Pierian soils, 20 to 45 percent slopes Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, explain any answers in Remarks.) Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland?	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, explain any answers in Remarks.) Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Yes Yes No Yes Yes No Yes Yes No Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area Wetland Hydrology Present? Yes No within a Wetland? Yes No	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, or Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? Yes No Within a Wetland?	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, experimental descriptions of the sampled Area within a Wetland? Hydrophytic Vegetation Present?	tc.
Hydrophytic Vegetation Present? Yes No \frac{}{} Hydric Soil Present? Yes No \frac{}{} Us the Sampled Area within a Wetland? Yes No \frac{}{}	
Hydric Soil Present? Wetland Hydrology Present? Yes No ✓	
Wetland Hydrology Present? Yes No _✓ within a wetland? Yes No _▼	
Remarks:	
Uplands adjacent to wetlands in depression	
VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet:	
Tree Stratum (Plot size:)	
1 That Are OBL, FACW, or FAC: 0 (A))
2 Total Number of Dominant	
3 Species Across All Strata: 3 (B)
4. Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 15ft) = Total Cover That Are OBL, FACW, or FAC: 0 (A	Έ)
1. Artemesia tridentata 15 Y UPL Prevalence Index worksheet:	
2 Total % Cover of. Multiply by.	
3 OBL species x 1 = FACW species x 2 =	
4 FAC species x 3 =	
5	
15	
1. Schedonorus pratensis 30 Y FACU Column Totals: (A) (I	3)
2. Bromus inermis 20 Y UPL Prevalence Index = B/A =	
3. Pascopyrum smithii 15 Y FACU Hydrophytic Vegetation Indicators:	
4. Poa secunda 10 N FACU 1 - Rapid Test for Hydrophytic Vegetation	
5	
6 3 - Prevalence Index is ≤3.0 ¹	
7 4 - Morphological Adaptations ¹ (Provide support	ing
8 data in Remarks or on a separate sheet) g 5 - Wetland Non-Vascular Plants ¹	
	i
11	
Woody Vine Stratum (Plot size:)	
1 Hydrophytic	
2 Vegetation Present? Yes No	
% Bare Ground in Herb Stratum = Total Cover	
Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth
(inches) Color (moist) % Redox Features
(inches) Color (moist) % Type¹ Loc² Texture Remarks

0-14 10YR 4/3 100 SaLo

Depth	Matrix			(Features		. 2				
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u></u> %	Type ¹	Loc ²	Texture		Remarks	
0-14	10YR 4/3	100					SaLo			
		. — — —								
		· —— –								
		· — — –								
	oncentration, D=Dep					d Sand Gr			re Lining, M	
-	ndicators: (Applic	able to all Li			ed.)		Indicators 1		matic Hydri	c Soils":
Histosol	` '	_	_ Sandy Redox (S					uck (A10)		
	ipedon (A2)	_	_ Stripped Matrix				Red Parent Material (TF2)			
Black His	` '	_	Loamy Mucky Mineral (F1) (except MLRA 1)				Very Shallow Dark Surface (TF12)			
	n Sulfide (A4)		_ Loamy Gleyed N)		Other (Explain in Remarks)			
	Below Dark Surface	e (A11)	_ Depleted Matrix				3			
	rk Surface (A12)	_	_ Redox Dark Surface (F6)				³ Indicators of hydrophytic vegetation and			
-	lucky Mineral (S1)	_	_ Depleted Dark S		7)		wetland hydrology must be present,			
-	leyed Matrix (S4)	_	_ Redox Depressi	ons (F8)			unless disturbed or problematic.			
Restrictive L	ayer (if present):									
Type:			<u>—</u>							1
Depth (inc	ches):						Hydric Soil Pre	esent? \	res	No <u>▼</u>
Remarks:										

HYDROLOGY

HYDROLOGY							
Wetland Hydrology Indica	tors:						
Primary Indicators (minimur	n of one rec	uired; check	(all that apply)	.,	Secondary Indicators (2 or m	nore required)	
Surface Water (A1)		_	_ Water-Stained Leaves (B9) (e	xcept	Water-Stained Leaves (I	B9) (MLRA 1, 2 ,	
High Water Table (A2)			MLRA 1, 2, 4A, and 4B)		4A, and 4B)		
Saturation (A3)		_	_ Salt Crust (B11)		Drainage Patterns (B10))	
Water Marks (B1)		_	_ Aquatic Invertebrates (B13)		Dry-Season Water Table	e (C2)	
Sediment Deposits (B2)	_	_ Hydrogen Sulfide Odor (C1)		Saturation Visible on Ae	rial Imagery (C9	
Drift Deposits (B3)		_	_ Oxidized Rhizospheres along	Living Roots (C3)	Geomorphic Position (D2)		
Algal Mat or Crust (B4)		_	Presence of Reduced Iron (C4	1)	Shallow Aquitard (D3)		
Iron Deposits (B5)		_	_ Recent Iron Reduction in Tilled	d Soils (C6)	FAC-Neutral Test (D5)		
Surface Soil Cracks (B6	3)	_	_ Stunted or Stressed Plants (D	1) (LRR A)	Raised Ant Mounds (D6) (LRR A)		
Inundation Visible on A	erial Imager	y (B7)	_ Other (Explain in Remarks)		Frost-Heave Hummocks	; (D7)	
Sparsely Vegetated Co	ncave Surfa	ace (B8)					
Field Observations:							
Surface Water Present?	Yes	No <u>√</u>	Depth (inches):				
Water Table Present?	Yes	No <u></u>	Depth (inches):	_			
Saturation Present? (includes capillary fringe)	Yes	No <u></u>	Depth (inches):	Wetland Hy	drology Present? Yes	No	
	ream gauge	e, monitorino	well, aerial photos, previous ins	pections), if availa	ble:		
Remarks:							