NOVEMBER 25, 2024

DARBY MEADOW RANCH

AQUATIC RESOURCE INVENTORY

PREPARED BY:

Intermountain Aquatics, Inc. 116 Mustang Dr. Driggs, ID 83422

PREPARED FOR:

John Edward Martin PO Box 10846 Jackson, WY 83002



EXECUTIVE SUMMARY

Aquatic resources presented in this report were delineated according to the 1987 manual, subsequent memorandums and the 2010 Western Mountains, Valleys & Coast supplement. The Western Mountains, Valleys & Coast 2020 Regional Wetland Plant List (US Army Corp of Engineers) was used to determine plant indicator status. Soils were classified using the NRCS Field Indicators of Hydric Soils in the United States.

Aquatic resources identified included 77.3 acres of wetland, 0.72 acres of stream, and 0.27 acres of ditch within the 80 acre area of interest (AOI). Hydrologic influences within the AOI include high groundwater and surface water in streams and ditches.

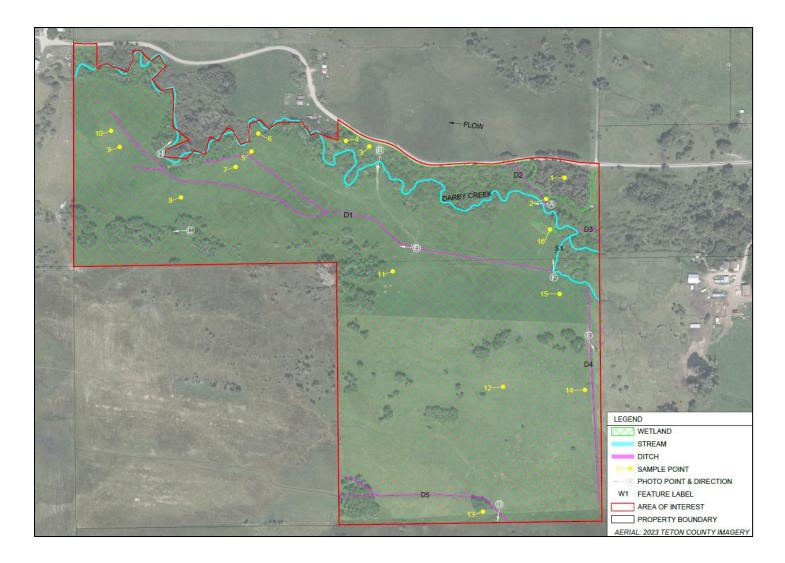


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1. INTRODUCTION

Intermountain Aquatics (IMA) visited the site on October 31 and November 8, 2024, to investigate the presence and extent of aquatic resources throughout the AOI for site planning and permitting. The AOI totals 80 acres and includes all areas that may be impacted during development activities proposed for this site.

This report facilitates efforts to:

- o Avoid or minimize impacts to aquatic resources when evaluating development options.
- o Document aquatic resource boundary determinations for review by regulatory authorities.

2. CONTACT INFORMATION

Owner:

John Edward Martin PO Box 10846 Jackson, WY 83002

Agent:

Katie Salsbury Intermountain Aquatics, Inc. 116 Mustang Dr. / PO Box 1115 Driggs, ID 83422

3. LOCATION

The project is located southwest of Driggs, Idaho (Figure 1) at Latitude 43.679276° Longitude -111.134157°, on 3000 South, along Darby Creek in Section 10 & 15, Township 4N, Range 45E.

Figure 1. Darby Meadow Ranch - Vicinity Map



4. METHODS

Various data sources were reviewed to gather preliminary information on land use history, vegetation, soils, and hydrologic characteristics of the site. This data was reviewed to become familiar with the site and to assist in the determination of wetlands. The following data sources were reviewed and are included below:

- □ USGS 7.5 minute series topographic map (Figure 2)
- Current and historic aerial photographs (Google Earth) (Figure 3 Figure 7)
- NWI Wetland Mapper (Figure 8)
- USACOE Antecedent Precipitation Tool (Figure 9)
- USDA NRCS Soil Survey for Teton Area, Idaho and Wyoming (Figure 10 Figure 12)
- DWR Water Right Locator search (Figure 13)

Wetlands were delineated according to the 1987 manual, memorandums and the 2010 Western Mountains, Valleys & Coast supplement. The Western Mountains, Valleys, & Coast 2020 Regional Wetland Plant List (US Army Corp of Engineers) was used to determine plant indicator status. Soils were classified using the NRCS Field Indicators of Hydric Soils in the United States. The ordinary high water mark (OHWM) was delineated in the field using physical and biological indicators including topographic breaks in slope, changes in sediment characteristics, and changes in vegetation.

Test pits were located in the driest locations in the AOI, and wetland determinations were made at each test pit. Field data at each test pit was recorded on data sheets copied from the 2010 Western Mountains, Valleys & Coast supplement. Wetlands, streams, and ditches were GPS'd with a Bad Elf GPS unit with sub-meter accuracy and sketched on aerial imagery.

Wetlands were delineated from a change in vegetation, which corresponded with a change in soils. Wetlands were dominated by FAC grasses and sedges, whereas uplands had FACU/UPL grasses and no hydric soil indicators. Unlike drier sites in Teton Valley, the majority of aspen forests had FAC or wetter specified in the understory and hydric soils.

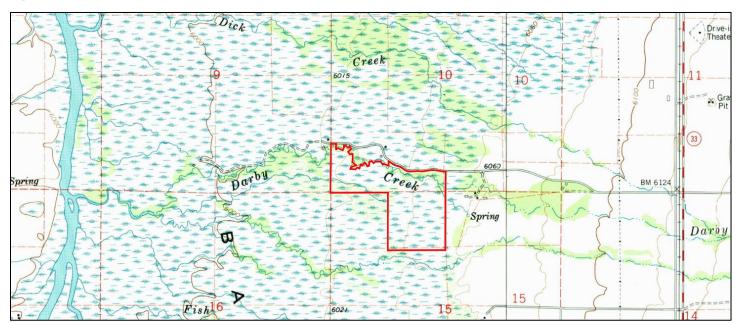


Figure 2. Darby Meadow Ranch - USGS Topo of Area of Interest



Figure 3. Darby Meadow Ranch - Google Earth Image of Area of Interest – 7/23/2024

Figure 4. Darby Meadow Ranch - Google Earth Image of Area of Interest – 10/12/2022



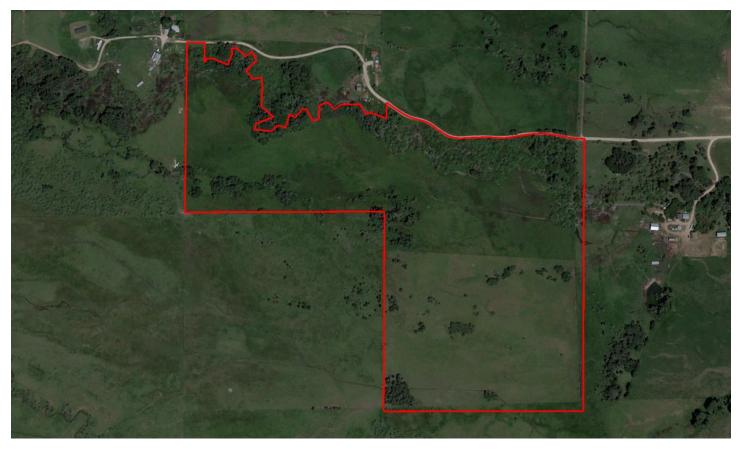


Figure 5. Darby Meadow Ranch - Google Earth Image of Area of Interest – 6/21/2017

Figure 6. Darby Meadow Ranch – Teton County GIS – 2023 Aerial Imagery



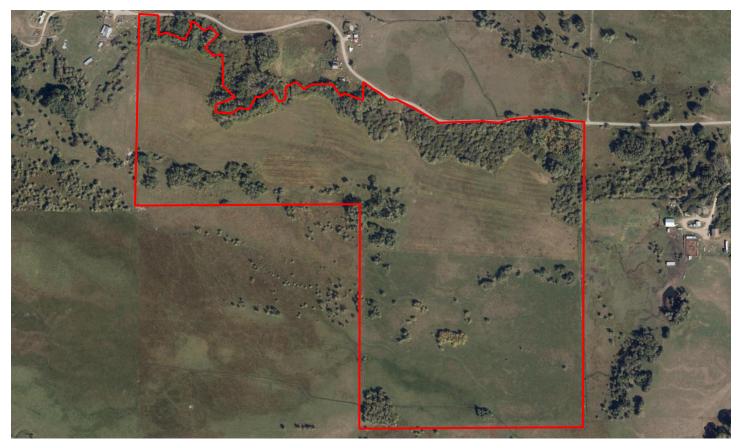


Figure 7. Darby Meadow Ranch – Teton County GIS – 2019 Aerial Imagery

Figure 8. Darby Meadow Ranch - NWI Map of Area of Interest



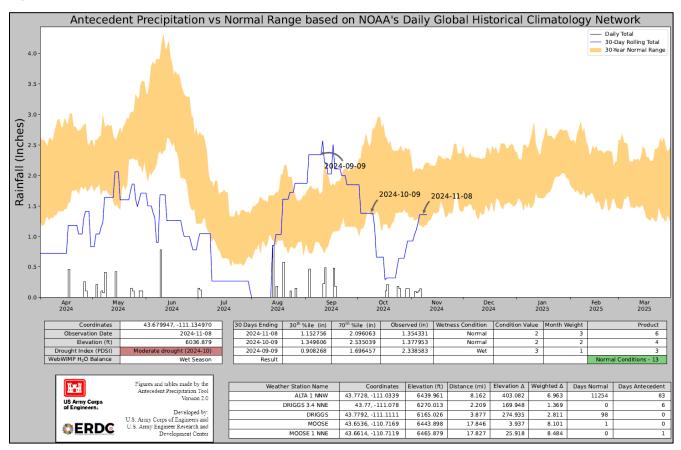
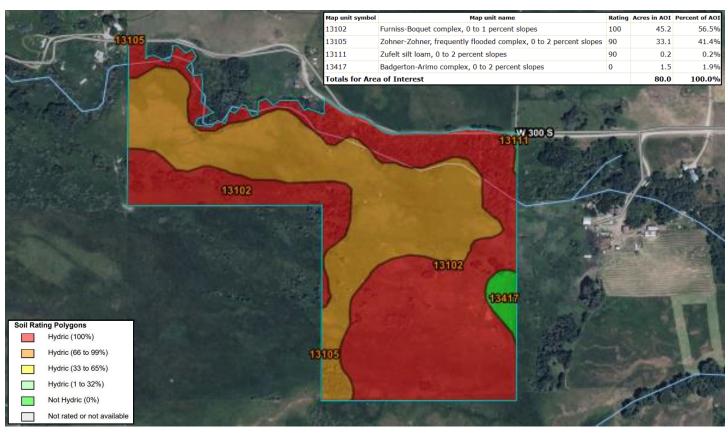


Figure 9. Darby Meadow Ranch - USACOE Antecedent Precipitation Tool

Figure 10. Darby Meadow Ranch - USDA Soil Survey – Hydric Soils Rating Map of Area of Interest



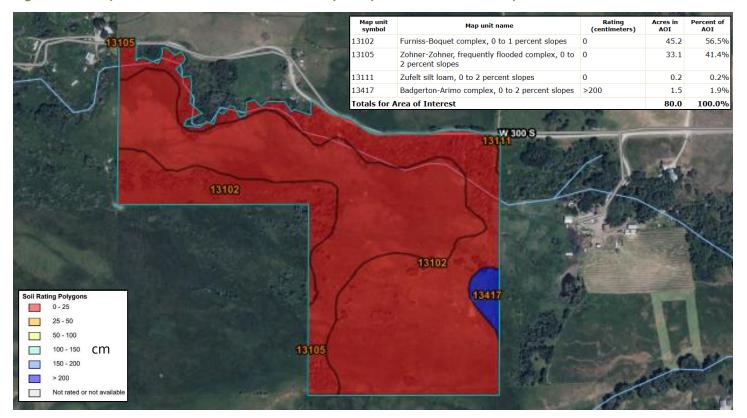


Figure 11. Darby Meadow Ranch - USDA Soil Survey – Depth to Water Table Map of Area of Interest

Figure 12. Darby Meadow Ranch - Soil Type Characteristics of Dominant Soils in Area of Interest

13102—Furniss-Boquet complex, 0 to 1 percent slopes Map Unit Setting

National map unit symbol: 1qmkj Elevation: 5,930 to 6,190 feet Mean annual precipitation: 16 to 18 inches Mean annual air temperature: 38 to 44 degrees F

Frost-free period: 20 to 50 days

Farmland classification: Not prime farmland Map Unit Composition

*Furniss, frequently flooded, and similar soils:*65 percent *Boquet, frequently flooded, and similar soils:*25

percent

Minor components:10 percent

Estimates are based on observations,

descriptions, and transects of the mapunit. Description of Furniss, Frequently Flooded Setting

Landform:Flats, drainageways, flood plains Down-slope shape:Linear Across-slope shape:Linear

Parent material:Mixed alluvium Typical profile

Oe - 0 to 2 inches: mucky peat

A1 - 2 to 8 inches: silty clay loam

- A2 8 to 13 inches: silty clay loam
- Cg1 13 to 18 inches: silty clay loam
- Cg2 18 to 28 inches: silty clay loam
- Cg3 28 to 32 inches: silty clay loam
- 2Cg4 32 to 37 inches: fine sandy loam

3Cg5 - 37 to 43 inches: very gravelly coarse sandy loam

3Cg6 - 43 to 60 inches: very gravelly sand Properties and qualities Slope:0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Very poorly drained Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 1.98 in/hr) Depth to water table: About 0 to 10 inches Frequency of flooding:Frequent Frequency of ponding:None Calcium carbonate, maximum content:10 percent Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) Sodium adsorption ratio, maximum:1.0 Available water supply, 0 to 60 inches: Moderate (about 8.5 inches) Interpretive groups Land capability classification (irrigated): 6c Land capability classification (nonirrigated): 6c Hydrologic Soil Group: C/D Ecological site: R013XY038ID - Meadow DECA18-CANE2 Hydric soil rating: Yes Description of Boquet, Frequently Flooded Setting Landform:Drainageways, flood plains, marshes Down-slope shape:Linear Across-slope shape:Concave Parent material:Herbaceous organic material over mixed alluvium Typical profile Oe - 0 to 8 inches: moderately decomposed plant material A1 - 8 to 14 inches: mucky silty clay loam A2 - 14 to 22 inches: clay Bg1 - 22 to 26 inches: silty clay loam 2Bg2 - 26 to 43 inches: gravelly loam

2BCg - 43 to 60 inches: very gravelly sandy loam Properties and qualities Slope:0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Very poorly drained Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr) Depth to water table: About 0 to 10 inches Frequency of flooding:Frequent Frequency of ponding:None Calcium carbonate, maximum content:4 percent Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) Sodium adsorption ratio, maximum:1.0 Available water supply, 0 to 60 inches: High (about 10.0 inches) Interpretive groups Land capability classification (irrigated): 6c Land capability classification (nonirrigated): 6c Hydrologic Soil Group: D Ecological site: R013XY053ID - Wet Meadow CAREX-JUNCUS Hydric soil rating: Yes Minor Components Tepete, frequently flooded Percent of map unit:10 percent Landform: Flood plains, marshes, drainageways, depressions Down-slope shape:Linear Across-slope shape:Concave, linear Ecological site:R013XY053ID - Wet Meadow CAREX-JUNCUS Hydric soil rating: Yes

13105—Zohner-Zohner, frequently Properties and gualities flooded complex, 0 to 2 percent slopes Map Unit Setting National map unit symbol: 1qmkm Elevation: 5,930 to 6,110 feet Mean annual precipitation: 16 to 18 inches Mean annual air temperature: 38 to 44 degrees Frost-free period: 20 to 50 days Farmland classification: Not prime farmland **Map Unit Composition** percent Zohner, occasionally flooded, and similar soils:60 percent Zohner, frequently flooded, and similar soils:30 percent Estimates are based on observations, descriptions, and transects of the mapunit. **Description of Zohner, Occasionally Flooded** Setting Landform:Flats, terraces Down-slope shape:Linear Across-slope shape:Convex, linear PONE-PHAL2 Parent material: Mixed alluvium Typical profile A - 0 to 2 inches: silt loam Setting Ak - 2 to 10 inches: silty clay loam Bkg1 - 10 to 13 inches: silty clay loam Bkg2 - 13 to 18 inches: silty clay loam Bkg3 - 18 to 27 inches: clay loam 2Bkg4 - 27 to 39 inches: gravelly coarse sandy loam 3Bg - 39 to 45 inches: very gravelly loamy plant material coarse sand 3Cg - 45 to 60 inches: extremely gravelly sand

Slope:0 to 2 percent Depth to restrictive feature: More than 80 inches Drainage class: Poorly drained Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr) Depth to water table: About 0 to 10 inches Frequency of flooding:Occasional Frequency of ponding:None Calcium carbonate, maximum content:81 Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) Sodium adsorption ratio, maximum:1.0 Available water supply, 0 to 60 inches: Moderate (about 7.6 inches) Interpretive groups Land capability classification (irrigated): 6c Land capability classification (nonirrigated): 6c Hydrologic Soil Group: C/D Ecological site: R013XY039ID - Dry Meadow Hvdric soil rating: Yes **Description of Zohner, Frequently Flooded** Landform: Drainageways Down-slope shape:Linear Across-slope shape:Concave Parent material: Mixed alluvium Typical profile Oe - 0 to 2 inches: moderately decomposed Ak - 2 to 10 inches: silty clay loam

Bkg1 - 10 to 13 inches: silty clay loam Bkg2 - 13 to 18 inches: silty clay loam Bkg3 - 18 to 27 inches: clay loam 2Bkg4 - 27 to 39 inches: gravelly coarse sandy loam 3Bg - 39 to 45 inches: very gravelly loamy coarse sand 3Cg - 45 to 60 inches: extremely gravelly sand Properties and qualities Slope:0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Poorly drained Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr) Depth to water table: About 0 to 10 inches Frequency of flooding:Frequent Frequency of ponding:None Calcium carbonate, maximum content:81 percent Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) Sodium adsorption ratio, maximum:1.0 Available water supply, 0 to 60 inches: Moderate (about 8.1 inches) Interpretive groups Land capability classification (irrigated): 6c Land capability classification (nonirrigated): 6c Hydrologic Soil Group: C/D Ecological site: R013XY038ID - Meadow DECA18-CANE2 Hydric soil rating: Yes

Figure 13. Darby Meadow Ranch – Water Right Summary



The IDWR Water Right Locator database lists several active surface water rights on and around the property. These rights likely influence the current distribution of wetlands. The main ditch on the property, D1, diverts approximately 0.5 cfs from S1 to flood irrigate 26 acres of hay field. This ditch appears to have been left open for several years and has been passively irrigating the hayfield south of Darby Creek.

4.A. LANDSCAPE SETTING

The AOI is in central Teton Valley, where many small creeks and springs converge and contribute to the Teton River (Figure 14). This project is located where the valley transitions from drier irrigated fields to a large wetland complex of wet meadows with high groundwater and many springs (Figure 8. Darby Meadow Ranch - NWI Map of Area of Interest). Surface hydrology is primarily supplied by Darby Creek and its associated network of irrigation ditches and spring creeks (Figure 15).

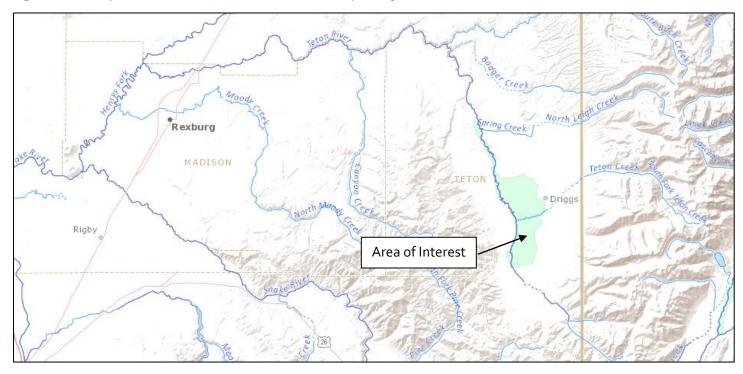
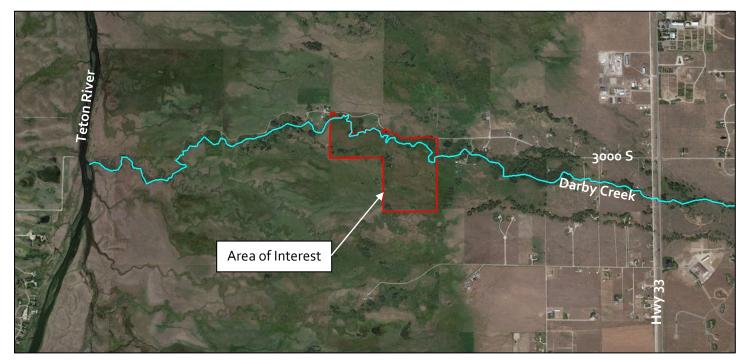




Figure 15. Darby Meadow Ranch – Hydrologic Vicinity



4.B. AQUATIC RESOURCES

Wetlands were found totaling 77.3 acres. These wetlands are palustrine emergent in the meadow, scrub-shrub dominated by willows, and forested dominated by aspen. 0.72 acres of stream are present, including Darby Creek and a spring creek tributary (S1). The downstream portion of Darby Creek roughly follows the property line, and any portion of the creek off the property is included in this acreage. Five ditches are present, totaling 0.27 acres. The dominant hydrologic influence within the AOI is high groundwater and surface water in streams and ditches.

Soils are generally consistent with the soil survey.

Table 1. Aquatic Resources	within the Area of Interest
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Aquatic Resource Name	Aquatic Resource Type	Cowardin Classification	Location (WGS84)	Area	Linear Feet
Wetland	Wetland	PEM, PSS, PFO	43.679580°, -111.134109°	77.3	n/a
S1	Stream	R2UB	43.679251°, -111.131637°	0.07	504
Darby Creek	Stream	R2UB	43.680476°, -111.133824°	0.65	4,698′
			Total stream	0.72	5,202'
D1	Ditch	R4UBK	43.679582°, -111.133643°	0.15	3,313'
D2	Ditch	R4UBK	43.680673°, -111.132501°	0.01	322'
D3	Ditch	R4UBK	43.679661°, -111.131486°	0.01	120'
D4	Ditch	R4UBK	43.678182°, -111.131291°	0.05	1,091'
D5	Ditch	R4UBK	43.676305°, -111.134062°	0.05	1,136′
			Total Ditch	0.27	5,982

5. REFERENCES

Environmental Laboratory. 1987 Corps of Engineers Wetlands Delineation Manual. US Army Corps of Engineers. Wetlands Research Program Technical Report Y-87-1.

Google Earth Historical Imagery

David, G., K. Fritz, Tracie-Lynn Nadeau, B. Topping, A. Allen, P. Trier, S. Kichefski, L. James, E. Wohl, AND D. Hamill. National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams. US Army Corps of Engineers, Washington, DC, 2022.

Lichvar, R.W, D.L. Banks, W.N. Kirchner, and N.C. Melvin. Western Mountains, Valleys & Coast 2020 Regional Wetland Plant List. US Army Corps of Engineers

National Wetlands Inventory. https://www.fws.gov/wetlands/data/mapper.HTML. U.S. Fish and Wildlife Service.

NRCS. 2024 Field Indicators of Hydric Soils in the United States. Version 9.0

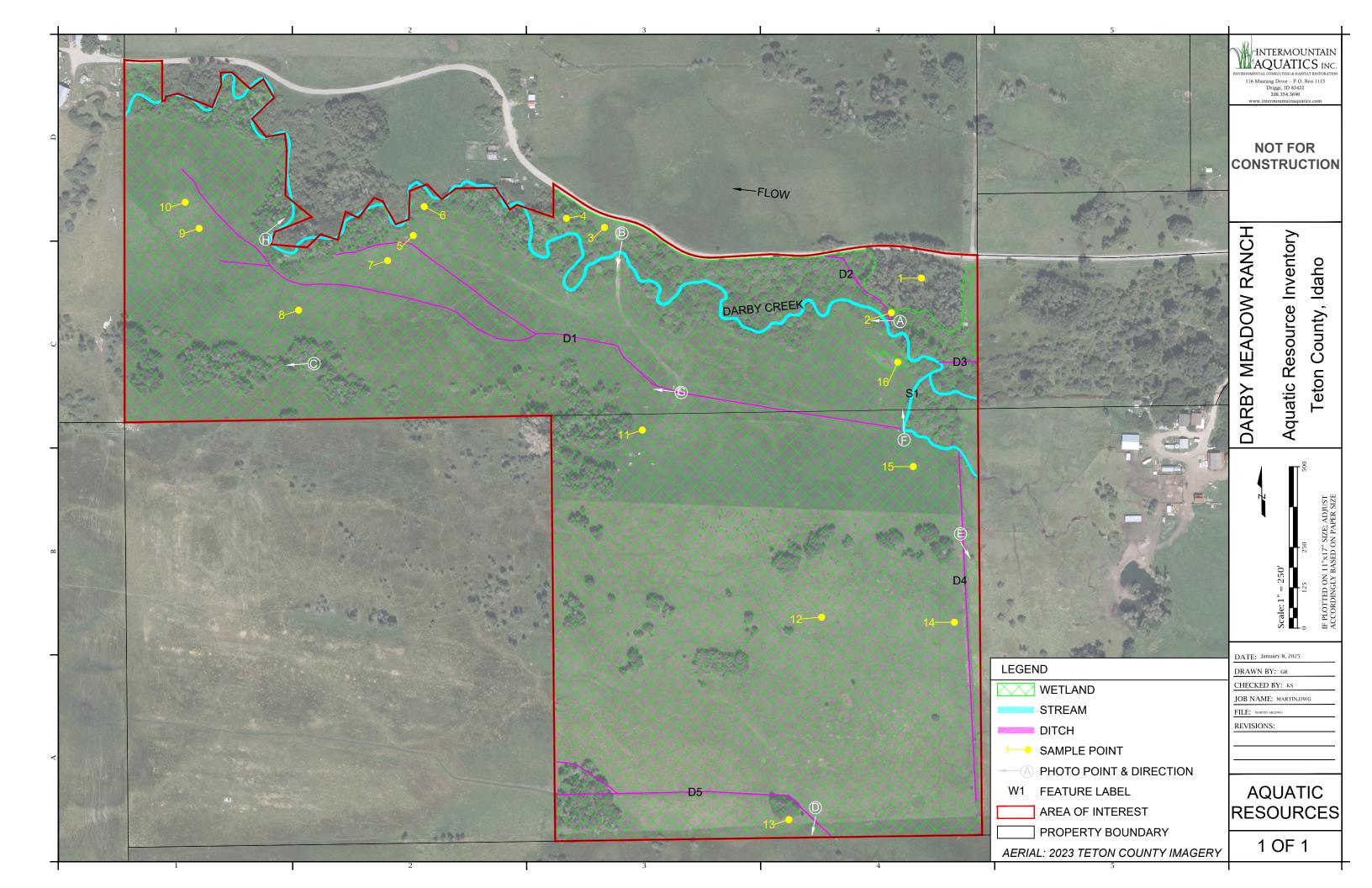
US Army Corps of Engineers. 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountain, Valleys, and Coast Region (V. 2.0). Wetlands Regulatory Assistance Program. ARDC/EL TR-10-3

USDA NRCS Soil Survey. https://websoilsurvey.sc.egov.usda.gov/App/HomePage.html. Custom Soil Resource Report for Teton Area, Idaho and Wyoming.

USGS. 7.5 minute series topographic maps

USGS. 2015, Streamer online mapping application available online at https://txpub.usgs.gov/DSS/streamer/web/. (Accessed May 14, 2024)

APPENDIX A - AQUATIC RESOURCE INVENTORY MAP



APPENDIX B - ON-SITE PHOTOGRAPHS

Sample Point and Photo Point Information

Sample Point	Lat	Long	Resources Present	Feature Label	Direction Taken
1	43.680699°	-111.131684°	n/a	n/a	W
2	43.680380°	-111.132090°	Wetland	Wetland	NW
3	43.681150°	-111.135380°	Wetland	Wetland	SW
4	43.681200°	-111.135870°	Wetland	Wetland	SW
5	43.681106°	-111.137681°	Wetland	Wetland	NW
6	43.681310°	-111.137550°	Wetland	Wetland	SW
7	43.680890°	-111.137960°	Wetland	Wetland	E
8	43.680460°	-111.139030°	Wetland	Wetland	NE
9	43.681170°	-111.140180°	Wetland	Wetland	W
10	43.681390°	-111.140340°	Wetland	Wetland	NW
11	43.679486°	-111.135033°	Wetland	Wetland	NW
12	43.677740°	-111.132950°	Wetland	Wetland	SW
13	43.676070°	-111.133360°	Wetland	Wetland	W
14	43.677740°	-111.131400°	Wetland	Wetland	S
15	43.678903°	-111.131736°	Wetland	Wetland	NW
16	43.679939°	-111.132033°	n/a	n/a	W
Photo Point	Lat	Long	Resources Present	Feature Label	Direction Taken
Α	43.680247°	-111.131997°	Wetland, stream, ditch	Wetland, Darby Creek, D2	W
В	43.681042°	-111.135261°	Wetland, stream	Wetland, Darby Creek	S
C	43.680008°	-111.138908°	Wetland	Wetland	W
D	43.676144°	-111.133142°	Wetland, ditch	Wetland, D5	S
E	43.678469°	-111.131347°	Wetland, ditch	Wetland, D4	SE
F	43.679356°	-111.131981°	Wetland, stream	Wetland, S1	N
G	43.679722°	-111.134614°	Wetland, ditch	Wetland, D1	W
н	43.681094°	-111.139419°	Wetland, stream	Wetland, Darby Creek	NE

Sample Point 1 pit (non-wetland)



Sample Point 1 area (non-wetland)



Sample Point 2 pit (wetland)



Sample Point 2 area (wetland)



Sample Point 3 pit (wetland)



Sample Point 3 area (wetland)



Sample Point 4 pit (wetland)



Sample Point 4 area (wetland)



Sample Point 5 pit (wetland)



Sample Point 5 area (wetland)



Sample Point 6 pit (wetland)



Sample Point 6 area (wetland)



Sample Point 7 pit (wetland)



Sample Point 7 area (wetland)



Sample Point 8 pit (wetland)



Sample Point 8 area (wetland)



Sample Point 9 pit (wetland)



Sample Point 9 area (wetland)



Sample Point 10 pit (wetland)



Sample Point 10 area (wetland)



Sample Point 11 pit (wetland)



Sample Point 11 area (wetland)



Sample Point 12 pit (wetland)



Sample Point 12 area (wetland)



Sample Point 13 pit (wetland)



Sample Point 13 area (wetland)



Sample Point 14 pit (wetland)



Sample Point 14 area (wetland)



Sample Point 15 pit (wetland)



Sample Point 15 area (wetland)



Sample Point 16 pit (non-wetland)



Sample Point 16 area (non-wetland)



Darby Creak D

Photo Point A – Wetland, Darby Creek, ditch (D2)

Photo Point B – Wetland, Darby Creek



Photo Point C – Wetland



Photo Point D – Wetland, ditch (D5)



Photo Point E – Wetland, ditch (D4)



Photo Point F – Wetland, stream (S1), ditch headgate



Photo Point G – Wetland, ditch (D1)



Photo Point H – Wetland, Darby Creek



Genus	Species	Common Name	WIS
Achillea	millefolium	Yarrow	FACU
Agrostis	stolonifera	Creeping bentgrass	FAC
Alopecurus	arundinaceus	Creeping foxtail	FAC
Bromus	inermis	Smooth brome	UPL
Carduus	nutans	Musk thistle	UPL
Carex	nebrascensis	Nebraska sedge	OBL
Carex	pellita	Wooly sedge	OBL
Carex	utriculata	Common beaked sedge	OBL
Cirsium	arvense	Canada thistle	FAC
Cirsium	vulgare	Bull thistle	FACU
Cynoglossum	officinale	Houndstongue	FACU
Dactylis	glomerata	Orchard grass	FACU
Dasiphora	fruticosa	Shrubby cinquefoil	FAC
Elymus	lanceolatus	Thickspike wheatgrass	FACU
Equisetum	hyemale	Tall scouring-rush	FACW
Juncus	articulatus	Jointed rush	OBL
Juncus	balticus	Baltic rush	FACW
Medicago	lupulina	Black medic	FACU
Phleum	pratense	Timothy	FAC
Plantago	major	Great plantain	FAC
Poa	pratensis	Kentucky blue grass	FAC
Populus	tremuloides	Quaking aspen	FACU
Rosa	woodsii	Wood's rose	FACU
Salix		willow	FACW
Schedonorus	arundinaceus	Tall fescue	FAC
Symphoricarpos	albus	Common snowberry	FACU
Taraxacum	officinale	Common dandelion	FACU
Trifolium	repens	White clover	FAC

APPENDIX C - PLANT LIST

APPENDIX D - WETLAND DELINEATION DATA FORMS

U.S. Army Co – WETLAND DETERMINATION DATA SHEET See ERDC/EL TR-10-3; the p	Western M	ountains, Val		•	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cour	nty: Teton C	County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State: II	D Sampling Point: 1
Investigator(s): GR		Section, T	ownship, Ra	inge: S10 T4N R4	45E
Landform (hillside, terrace, etc.):		Local relief (co	oncave, conv	/ex, none): flat	Slope (%):1
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Furniss-Boquet complex, 0-1% s					classification: PSS1C
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If r	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		-			esent? Yes X No
Are Vegetation, Soil, or Hydrology				plain any answers	
SUMMARY OF FINDINGS – Attach site m					
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N		Is the	Sampled A	rea	No <u>X</u>
VEGETATION – Use scientific names of p	plants.				
	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30' x 30')	% Cover	Species?	Status	Dominance Tes	st worksheet:
1. Populus tremuloides	70	Yes	FACU		inant Species That
2 3.				Are OBL, FACV	(,
3				Total Number of Across All Strat	f Dominant Species a: 6 (B)
ч. <u> </u>	70	=Total Cover			inant Species That
Sapling/Shrub Stratum (Plot size: 20' x 20'				Are OBL, FACV	•
1. Dasiphora fruticosa	3	No	FAC		
2. <u>Rosa woodsii</u>	20	Yes	FACU	Prevalence Ind	
3. Symphoricarpos albus	25	Yes	FACU	Total % Co	
4 5				OBL species	$\begin{array}{c} 0 \\ 0 \\ x \\ 2 \\ x \\ 2 \\ 0 \end{array} \qquad x \\ 0 \\ x \\ 0 \\ x \\ 0 \\ x \\ 0 \\ 0 \\ x \\ 0 \\ 0$
J	48	=Total Cover		FACW species FAC species	
Herb Stratum (Plot size: 5' x 5')				FACU species	150 x 4 = 600
1. Dactylis glomerata	30	Yes	FACU	UPL species	0 x 5 = 0
2. Schedonorus arundinaceus	30	Yes	FAC	Column Totals:	213 (A) 789 (B)
3. Poa pratensis	20	Yes	FAC	Prevalence I	ndex = $B/A = 3.70$
4. Medicago lupulina	5	No	FACU		
5. <u>Trifolium repens</u>	10	No	FAC		egetation Indicators:
6 7.				·	est for Hydrophytic Vegetation nce Test is >50%
8.					nce Index is ≤ 3.0^1
9.					ogical Adaptations ¹ (Provide supporting
10					emarks or on a separate sheet)
11				5 - Wetland	Non-Vascular Plants ¹
	95	=Total Cover		Problematic	: Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 1.)				rdric soil and wetland hydrology must ess disturbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes No_X
Remarks:				•	

Profile Descr	iption: (Describe t	to the depth	needed to docu	ment th	ne indica	tor or co	onfirm the	absence of ind	licators.)		
Depth	Matrix		Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture	Remarks	;	
0-4	10YR 3/2	100					Loamy	/Clayey			
4-12	10YR 3/3	100					Loamy	/Clayey			
	ncentration, D=Depl					pated Sa	nd Grains.		PL=Pore Lining, N		
,	ndicators: (Applica	ble to all LR			,				Problematic Hydr	ic Soils'	:
Histosol (,		Sandy Gley		rix (S4)				k (A10) (LRR A, E)		
·	pedon (A2)		Sandy Red	• •					anese Masses (F12	2) (LRR D))
Black His	tic (A3)		Stripped M	atrix (S6	5)			Red Parer	nt Material (F21)		
	Sulfide (A4)		Loamy Mu	cky Mine	eral (F1) (except	MLRA 1)	Very Shall	ow Dark Surface (F	22)	
1 cm Muc	k (A9) (LRR D, G)		Loamy Gleyed Matrix (F2) Other (Explain in Remarks)								
Depleted	Below Dark Surface	e (A11)	Depleted M	latrix (F	3)						
Thick Dar	k Surface (A12)		Redox Dark Surface (F6)				³ Indicators of h	nydrophytic vegetati	on and		
Sandy Mu	ucky Mineral (S1)		Depleted Dark Surface (F7)					wetland hy	/drology must be pr	esent,	
2.5 cm M	ucky Peat or Peat (S	62) (LRR G)	Redox Dep	ression	s (F8)			unless dis	turbed or problemat	ic.	
Restrictive L	ayer (if observed):										
Type:											
Depth (ind	ches):		_				Hydric Se	oil Present?	Yes	No	Х
Remarks:											

HYDROLOGY

Wetland Hydrology Indicat	tors:						
Primary Indicators (minimun	n of one is requi		Secondary Indicators (2 or more required)				
Surface Water (A1)			Water	-Stained Leaves (B9) (except	_	Water-Stained Leaves (B9) (MLRA 1, 2	
High Water Table (A2)			ML	RA 1, 2, 4A, and 4B)		4A, and 4B)	
Saturation (A3)			Salt C	rust (B11)	_	Drainage Patterns (B10)	
Water Marks (B1)			Aquati	ic Invertebrates (B13)		Dry-Season Water Table (C2)	
Sediment Deposits (B2)			Hydro	gen Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)			Oxidiz	ed Rhizospheres on Living Ro	ots (C3)	Geomorphic Position (D2)	
Algal Mat or Crust (B4)			Presei	nce of Reduced Iron (C4)		Shallow Aquitard (D3)	
Iron Deposits (B5)			Recen	nt Iron Reduction in Tilled Soils	s (C6)	FAC-Neutral Test (D5)	
Surface Soil Cracks (B6)		Stunte	ed or Stressed Plants (D1) (LR	(RA)	Raised Ant Mounds (D6) (LRR A)	
Inundation Visible on Ae	erial Imagery (B	')	Other	(Explain in Remarks)		Frost-Heave Hummocks (D7)	
Sparsely Vegetated Cor	ncave Surface (E	38)			_		
Field Observations:							
Surface Water Present?	Yes	No	Х	Depth (inches):			
Water Table Present?	Yes	No	Х	Depth (inches):			
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland I	Hydrology Present? Yes No X	
(includes capillary fringe)							
Describe Recorded Data (st	ream gauge, mo	nitoring	well, a	aerial photos, previous inspecti	ions), if availa	able:	
Remarks:							

I

U.S. Army Co		-			OMB Control #: 0710-0024,	
WETLAND DETERMINATION DATA SHEET – See ERDC/EL TR-10-3; the pr		-	•	-	Requirement Control Syn (Authority: AR 335-15, pa	
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date	11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point	t: <u>2</u>
Investigator(s): GR		Section, T	ownship, Ra	nge: S10 T4N R	45E	
Landform (hillside, terrace, etc.): swale		Local relief (c	oncave, conv	vex, none): <u>conc</u> a	ave SI	ope (%): <u>1</u>
Subregion (LRR/MLRA): LRR E, MLRA 43B	Lat:	43.68038	0°	Long: <u>-111.13209</u>	0° Datum	: WGS84
Soil Map Unit Name: Furniss-Boquet complex, 0-1% s	lopes			NWI	classification: PSS1C	
Are climatic / hydrologic conditions on the site typical f	or this time o	of year?	Yes X	No (If r	no, explain in Remarks.))
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	Are "Normal (Circumstances" pre	esent? Yes X	No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic? (lf needed, ex	plain any answers	in Remarks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showir	ng sampling	g point lo	cations, transe	ects, important fea	atures, etc.
Hydrophytic Vegetation Present? Yes X N	0	Is the	Sampled A	rea		
	o		n a Wetland		<u> X No </u>	
Wetland Hydrology Present? Yes X N	o					
Remarks:						
L VEGETATION – Use scientific names of p	lants.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Te		
2.		·		Number of Dom Are OBL, FACV	inant Species That	3 (A)
3.					f Dominant Species	(/ ()
4.				Across All Strat	•	3 (B)
		=Total Cover			inant Species That	
Sapling/Shrub Stratum (Plot size: 10' x 5'		Vee		Are OBL, FACV	V, or FAC:	100.0% (A/B)
1. <u>Salix</u> 2.	25	Yes	FACW	Prevalence Ind	lex worksheet	
3.				Total % Co		oly by:
4.				OBL species		25
5				FACW species		
Hork Stratum (Distaire) Elv(El)	25	=Total Cover		FAC species	65 x 3 =	195 0
Herb Stratum (Plot size: <u>5' x 5'</u>) 1. Agrostis stolonifera	50	Yes	FAC	FACU species UPL species	0 x4 = 0 x5 =	0
2. Juncus balticus	10	No	FACW	Column Totals:		290 (B)
3. Alopecurus arundinaceus	15	No	FAC	Prevalence I	ndex = B/A = 2.	32
4. Carex utriculata	25	Yes	OBL			
5		· . <u></u>			egetation Indicators:	
6		·			est for Hydrophytic Veg nce Test is >50%	etation
8.					nce Index is $\leq 3.0^1$	
9.				4 - Morphole	ogical Adaptations ¹ (Pro	vide supporting
10				data in R	emarks or on a separat	e sheet)
11					Non-Vascular Plants ¹	1
Woody Vino Stratum (Dist size)	<u>100</u>	=Total Cover		<u> </u>	c Hydrophytic Vegetatio	
Woody Vine Stratum (Plot size:)				/dric soil and wetland hy ess disturbed or problem	
1. 2.				Hydrophytic		
		=Total Cover		Vegetation		
% Bare Ground in Herb Stratum				Present?	Yes <u>X</u> No	
Remarks:						

Depth	Matrix	ne depin		x Featur		tor or Co	onfirm the absence o	indicators.)	
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6		100					Loamy/Clayey		
6-16	10YR 4/2	90	10YR 3/4	10	С	М	Loamy/Clayey	Distinct redox concentrations	
						<u> </u>			
							2.		
	oncentration, D=Depletion					bated Sa		ation: PL=Pore Lining, M=Matrix.	
-	Indicators: (Applicable	to all LR						s for Problematic Hydric Soils ³ :	
Histosol	(A1) bipedon (A2)		Sandy Gle Sandy Red		rix (54)			Muck (A10) (LRR A, E)	
Black Hi	1 ()		Stripped N	• •	:)		Iron-Manganese Masses (F12) (LRR D) Red Parent Material (F21)		
	n Sulfide (A4)		Loamy Mu	•		excent		Shallow Dark Surface (F22)	
	ick (A9) (LRR D, G)		Loamy Gle	-		except		r (Explain in Remarks)	
	d Below Dark Surface (A	.11)	X Depleted N	•	• •				
	ark Surface (A12)	,	Redox Dark Surface (F6)				³ Indicator	s of hydrophytic vegetation and	
Sandy M	lucky Mineral (S1)		Depleted D		``'			nd hydrology must be present,	
2.5 cm N	Aucky Peat or Peat (S2)	(LRR G)	Redox Dep	pression	s (F8)		unles	s disturbed or problematic.	
Restrictive	Layer (if observed):								
T			_						
Type:	h) -		_				Hydric Soil Present	? Yes X No	
Depth (ir	ncnes):								

wetiand hydrology indicators.									
Primary Indicators (minimum of one is required	Secondary Indicators (2 or more required)								
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2							
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)							
X Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)							
Water Marks (B1)	Aquatic Invertebrates (B13)	X Dry-Season Water Table (C2)							
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roc	ots (C3) X Geomorphic Position (D2)							
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)							
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	(C6) X FAC-Neutral Test (D5)							
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRF	R A) Raised Ant Mounds (D6) (LRR A)							
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)							
Sparsely Vegetated Concave Surface (B8)	—								
Field Observations:									
Surface Water Present? Yes	No X Depth (inches):								
Water Table Present? Yes X	No Depth (inches): 15								
Saturation Present? Yes X	No Depth (inches): 12	Wetland Hydrology Present? Yes X No							
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previous inspectio	ons), if available:							
Remarks:									

U.S. Army Co WETLAND DETERMINATION DATA SHEET –	•	-	lleys, and C	coast Region	OMB Control #: 0710-0024, Exp: Requirement Control Symbol E	XEMPT:
See ERDC/EL TR-10-3; the pr	oponent a	gency is CE	ECW-CO-F	र	(Authority: AR 335-15, paragra	ph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date:	11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point:	3
Investigator(s): GR		Section, T	ownship, Ra	nge: S10 T4N R	45E	
Landform (hillside, terrace, etc.):						(%): 1
Subregion (LRR/MLRA): LRR E, MLRA 43B						
Soil Map Unit Name: Furniss-Boquet complex, 0-1% s					classification: PSS1C	
Are climatic / hydrologic conditions on the site typical f	or this time o	f vear?				
Are Vegetation, Soil, or Hydrology					esent? Yes X No	
Are Vegetation, Soil, or Hydrology				plain any answers		
SUMMARY OF FINDINGS – Attach site ma						os otc
			g point io			es, etc.
	o		e Sampled A			
	o	withi	n a Wetland	? Yes	<u> X No </u>	
	0					
Remarks:						
VEGETATION – Use scientific names of p	lants.					
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	at workshoot	
1.		Species	Status			
2.				Are OBL, FACV	hinant Species That V, or FAC: 3	(A)
3.				Total Number o	f Dominant Species	
4.				Across All Strat		(B)
		=Total Cover			inant Species That	
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACV	V, or FAC: 100.	0% (A/B)
1		·······		Prevalence Inc	lox workshoot	
2 3				Total % Co		v:
4.				OBL species		·
5.				FACW species		
		=Total Cover		FAC species	82 x 3 = 24	6
Herb Stratum (Plot size: 5' x 5')				FACU species	0 x 4 = 0	
1. Agrostis stolonifera	45	Yes	FAC	UPL species	$0 \times 5 = 0$	
Schedonorus arundinaceus Phleum pratense	<u> </u>	Yes Yes	FAC FAC	Column Totals: Prevalence	94 (A) 25 Index = $B/A =$ 2.74	8(B)
4. Carex nebrascensis	4	No	OBL	i rovalorioo i		
5. Trifolium repens	7	No	FAC	Hydrophytic V	egetation Indicators:	
6. Carex utriculata	8	No	OBL	1 - Rapid T	est for Hydrophytic Vegetati	on
7					nce Test is >50%	
8					nce Index is ≤3.0 ¹	
9					ogical Adaptations ¹ (Provide Remarks or on a separate sh	
10					l Non-Vascular Plants ¹	661)
11	94	=Total Cover			c Hydrophytic Vegetation ¹ (E	xplain)
Woody Vine Stratum (Plot size:)				vdric soil and wetland hydrol	
1					ess disturbed or problematic	
2.				Hydrophytic		
		=Total Cover		Vegetation	N	
% Bare Ground in Herb Stratum				Present?	Yes X No	
Remarks:						

Profile Desc Depth	cription: (Describe t Matrix	o the dept		u ment th x Featur		tor or co	onfirm the a	bsence of	indicators	5.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ire		Remarks	
0-11	10YR 2/2	100					Loamy/C	layey			
11-16	10YR 4/2	80	10YR 5/6	20	С	М	Loamy/C	layey	Promine	ent redox conc	entrations
					<u> </u>			·			
	oncentration, D=Depl		Reduced Matrix (ion: PI -Pr	pre Lining, M=	Matrix
71	Indicators: (Applical	,	,							matic Hydric	
Histosol	(A1)		Sandy Gle	yed Mati	rix (S4)					(LRR A, E)	
Histic Ep	bipedon (A2)	Sandy Redox (S5) Iron-Manganese Masses (F12) (LI							(LRR D)		
Black Hi	stic (A3)	Stripped Matrix (S6) Red Parent Material (F21)								. ,	
Hvdroge	n Sulfide (A4)	Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22)								2)	
	ick (A9) (LRR D, G)	Loamy Gle		. ,	•	Other (Explain in Remarks)					
	Below Dark Surface	(A11)	Depleted N				•		、 I	,	
	ark Surface (A12)	()	Redox Dar	•	,			³ Indicators	of hydroph	ytic vegetation	n and
	lucky Mineral (S1)		Depleted [()				• •	/ must be pres	
_ `	Aucky Peat or Peat (S	62) (LRR G	·		、 ,					or problematic	
Restrictive I	Layer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soi	I Present?	>	Yes X	No
Remarks:											

HYDROLOGY

Wetland Hydrology Indicat	ors:							
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required)								
Surface Water (A1)			Water-	Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2			
High Water Table (A2)			ML	RA 1, 2, 4A, and 4B)	4A, and 4B)			
Saturation (A3)			Salt Cr	rust (B11)	Drainage Patterns (B10)			
Water Marks (B1)			Aquatio	c Invertebrates (B13)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)			Hydrog	jen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)			Oxidize	ed Rhizospheres on Living Roo	ots (C3) Geomorphic Position (D2)			
Algal Mat or Crust (B4)			Preser	ice of Reduced Iron (C4)	Shallow Aquitard (D3)			
Iron Deposits (B5)			Recent	t Iron Reduction in Tilled Soils	(C6) X FAC-Neutral Test (D5)			
Surface Soil Cracks (B6)		Stunte	d or Stressed Plants (D1) (LRI	R A) Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Aerial Imagery (B7) X Other (Explain in Remarks) Frost-Heave Hummocks (D7)								
Sparsely Vegetated Concave Surface (B8)								
Field Observations:								
Surface Water Present?	Surface Water Present? Yes No X Depth (inches):							
Water Table Present?	Water Table Present? Yes No X Depth (inches):							
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No								
(includes capillary fringe)								
Describe Recorded Data (st	ream gauge, moni	toring	well, a	erial photos, previous inspection	ons), if available:			
Remarks:								
Hydrology is likely based up	on soils and veget	ation	oresent	t				

U.S. Army Co		-			OMB Control #: 0710-0024, Exp: 11/30/2024
WETLAND DETERMINATION DATA SHEET – See ERDC/EL TR-10-3; the pl			-	-	Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point: 4
Investigator(s): GR		Section, 7	Township, Ra	nge: S10 T4N R	45E
Landform (hillside, terrace, etc.):					
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Furniss-Boquet complex, 0-1% s					classification: PSS1C
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If i	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "Normal (Circumstances" pre	esent? Yes X No
Are Vegetation, Soil, or Hydrology	naturally prol	blematic? (If needed, ex	plain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site m			a point lo	cations. trans	ects, important features, etc.
		<u> </u>			·····, ····p ·········, ····; ····
	0 <u> </u>		e Sampled A		N- X
	lo <u>X</u> lo	with	n a Wetland	? fes	NoX
Remarks:					
Nemarka.					
VEGETATION – Use scientific names of p	olants.				
Tree Stratum (Plot size: 30' x 30')	Absolute	Dominant Species 2	Indicator	Dominance Te	of workshoot
Tree Stratum (Plot size: 30' x 30') 1. Populus tremuloides	% Cover 65	Species? Yes	Status FACU		
2.		100	17.00	Are OBL, FACV	ninant Species That N, or FAC: 4 (A)
3.					f Dominant Species
4.				Across All Strat	-
	65	=Total Cover			ninant Species That
Sapling/Shrub Stratum (Plot size: 20' x 20'			=	Are OBL, FACV	N, or FAC: <u>80.0%</u> (A/B)
1. <u>Salix</u>	<u>25</u> 3	Yes	FACW	Drevelan as Inc	den mente e e é
2. <u>Rosa woodsii</u> 3.	3	No	FACU	Total % Co	dex worksheet: over of: Multiply by:
4.				OBL species	
5.				FACW species	40 x 2 = 80
	28	=Total Cover		FAC species	<u>68</u> x 3 = <u>204</u>
Herb Stratum (Plot size: 5' x 5')				FACU species	<u>68</u> x 4 = <u>272</u>
1. Cirsium arvense	3	No	FAC	UPL species	0 x 5 = 0
2. Schedonorus arundinaceus	20	Yes	FAC	Column Totals:	
 Agrostis stolonifera Trifolium repens 	<u>20</u> 5	Yes No	FAC FAC	Prevalence	Index = $B/A = 2.99$
5. Poa pratensis	20	Yes	FAC	Hydrophytic V	egetation Indicators:
6. Carex utriculata	15	No	OBL		est for Hydrophytic Vegetation
7. Equisetum hyemale	15	No	FACW		nce Test is >50%
8					nce Index is ≤3.0 ¹
9					ogical Adaptations ¹ (Provide supporting
10					Remarks or on a separate sheet)
11	98	=Total Cover			d Non-Vascular Plants ¹ c Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				ydric soil and wetland hydrology must
1. (1.1010.101.					ess disturbed or problematic.
2.				Hydrophytic	
		=Total Cover		Vegetation	
% Bare Ground in Herb Stratum				Present?	Yes_XNo
Remarks:					

Color (moist) % Color (moist) % Type1 Loc2 Texture Remarks 0-5 10YR 2/2 100	Depth	Matrix		Redo	ox Featur	es				-		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histosol (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.	•	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture	Remarks	8	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :	0-5	10YR 2/2	100									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.												
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.												
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.					_	_	_					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.												
Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.	¹ Type: C=C	oncentration, D=Depletio	n, RM=F	Reduced Matrix, C	CS=Cove	ered or Co	bated Sa	and Grains.	² Location:	PL=Pore Lining, M	1=Matrix.	
Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Type:	Hydric Soil	Indicators: (Applicable	to all LF	Rs, unless othe	erwise n	oted.)			Indicators for	Problematic Hydr	ic Soils ³	:
Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Image: Comparison of the comparis	Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)		2 cm Muck (A10) (LRR A, E)				
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic.	Histic Ep	oipedon (A2)		Sandy Re	dox (S5)				Iron-Manga	nese Masses (F12	2) (LRR I))
1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 3Indicators of hydrophytic vegetation and Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Type:	Black Histic (A3) Stripped Matrix (S6)						Red Parent Material (F21)					
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) Restrictive Layer (if observed): Type:	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (excep					except	MLRA 1) Very Shallow Dark Surface (F22)					
Thick Dark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed): Type:	1 cm Mu	ıck (A9) (LRR D, G)		Loamy Gl	eyed Mat	trix (F2)			Other (Exp	lain in Remarks)		
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed): Type:	Depleted	d Below Dark Surface (A	11)	Depleted	Matrix (F	3)						
2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed): Type:	Thick Da	ark Surface (A12)		Redox Da	rk Surfac	ce (F6)			³ Indicators of h	ydrophytic vegetat	ion and	
Restrictive Layer (if observed): Type:	Sandy M	lucky Mineral (S1)		Depleted	Dark Sur	face (F7)			wetland hy	drology must be pr	esent,	
Туре:	2.5 cm N	Mucky Peat or Peat (S2)	(LRR G)	Redox De	pression	s (F8)			unless dist	urbed or problema	tic.	
	Restrictive	Layer (if observed):										
Depth (inches): Hydric Soil Present? Yes No X	Type:			_								
	Depth (inches):						Hydric Se	oil Present?	Yes	No	Х	

HYDROLOGY

Wetland Hydrology Indicators:									
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required)									
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (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 (C2)							
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roc	ts (C3) X Geomorphic Position (D2)							
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)							
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	(C6) X FAC-Neutral Test (D5)							
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)									
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)							
Sparsely Vegetated Concave Surface (B8)									
Field Observations:									
Surface Water Present? Yes	No X Depth (inches):								
Water Table Present? Yes									
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X									
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspection	ons), if available:							
Remarks:									
Cannot dig further due to shallow roots present	t. Lots of shallow swales and low topograph	y throughout aspen forest.							

U.S. Army Co	•				OMB Control #: 0710-0024, Exp: 11/30/2024
WETLAND DETERMINATION DATA SHEET - See ERDC/EL TR-10-3; the p		•		•	Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point: 5
Investigator(s): GR		Section, T	ownship, Ra	nge: S10 T4N R	45E
Landform (hillside, terrace, etc.):					
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Zohner-Zohner, frequently flood					
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes X	No (If r	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly of				esent? Yes X No
Are Vegetation , Soil , or Hydrology				plain any answers	
SUMMARY OF FINDINGS – Attach site m					
	lo		Sampled A		
	lo lo	withi	n a Wetland	? Yes	<u>X</u> No
Remarks:	<u> </u>				
Nemarks.					
VEGETATION – Use scientific names of	olants.				
Tree Stratum (Plot size:)	Absolute	Dominant Species?	Indicator Status	Dominance Te	at workshoot
Tree Stratum (Plot size:)	% Cover	Species?	Status		
2.				Are OBL, FACV	ninant Species That V, or FAC: 2 (A)
3.					f Dominant Species
4.				Across All Strat	
		=Total Cover		Percent of Dom	inant Species That
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACV	V, or FAC: <u>66.7%</u> (A/B)
1				Drevelan es inc	
2				Total % Co	lex worksheet: over of: Multiply by:
3 4				OBL species	
5.	·			FACW species	
		=Total Cover		FAC species	80 x 3 = 240
Herb Stratum (Plot size: 5' x 5')				FACU species	0 x 4 = 0
1. Bromus inermis	25	Yes	UPL	UPL species	25 x 5 = 125
2. Poa pratensis	25	Yes	FAC	Column Totals:	
Schedonorus arundinaceus Phleum pratense	<u> </u>	Yes No	FAC FAC	Prevalence	Index = B/A = 3.41
5. Equisetum hyemale	5	No	FACW	Hydrophytic V	egetation Indicators:
6. Trifolium repens	15	No	FAC		est for Hydrophytic Vegetation
7.				X 2 - Domina	nce Test is >50%
8					nce Index is ≤3.0 ¹
9					ogical Adaptations ¹ (Provide supporting
10	·				temarks or on a separate sheet)
11	110	=Total Cover			I Non-Vascular Plants ¹ c Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:					ydric soil and wetland hydrology must
1.	<i>'</i>				ess disturbed or problematic.
2.				Hydrophytic	
		=Total Cover		Vegetation	
% Bare Ground in Herb Stratum				Present?	Yes_XNo
Remarks:					

Profile Desc Depth	ription: (Describe	to the dep		u ment tł x Featur		tor or co	onfirm the absence o	f indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 2/2	100					Loamy/Clayey			
8-14	10YR 4/2	75	10YR 3/6	25	С	М	Loamy/Clayey	Prominent redox concentrations		
		•								
		·								
Type: C=Co	oncentration, D=Depl	etion, RM	Reduced Matrix, C	CS=Cove	red or Co	bated Sa	nd Grains. ² Loca	tion: PL=Pore Lining, M=Matrix.		
Hydric Soil I	Indicators: (Applica	ble to all	LRRs, unless othe	erwise n	oted.)		Indicator	s for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		2 cm	Muck (A10) (LRR A, E)		
Histic Ep	oipedon (A2)		Sandy Re	dox (S5)			Iron-N	/langanese Masses (F12) (LRR D)		
Black His	stic (A3)		Stripped N	latrix (Se	5)		Red F	Parent Material (F21)		
Hydroge	n Sulfide (A4)		Loamy Mu	icky Mine	eral (F1)	(except l	MLRA 1) Very	Shallow Dark Surface (F22)		
1 cm Mu	ick (A9) (LRR D, G)		Loamy Gle	eyed Mat	rix (F2)		Other	(Explain in Remarks)		
X Depleted	Below Dark Surface	e (A11)	X Depleted	Matrix (F	3)					
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	e (F6)		³ Indicators of hydrophytic vegetation and			
Sandy M	lucky Mineral (S1)		Depleted I	epleted Dark Surface (F7)			wetlar	nd hydrology must be present,		
2.5 cm N	lucky Peat or Peat (52) (LRR (G) Redox De	pression	s (F8)		unles	s disturbed or problematic.		
Restrictive L	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Present	? Yes <u>X</u> No		
Remarks:										

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is rec	Secondary Indicators (2 or more required)			
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2		
High Water Table (A2)	4A, and 4B)			
Saturation (A3)	Drainage Patterns (B10)			
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	ots (C3) Geomorphic Position (D2)			
Algal Mat or Crust (B4)	Shallow Aquitard (D3)			
Iron Deposits (B5)	(C6) FAC-Neutral Test (D5)			
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRI	RA) Raised Ant Mounds (D6) (LRR A)		
Inundation Visible on Aerial Imagery	(B7) X Other (Explain in Remarks)	Frost-Heave Hummocks (D7)		
Sparsely Vegetated Concave Surface				
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, previous inspection	ons), if available:		
Remarks:				
Proximity to flood irrigation and redox feat	tures starting at 8".			

U.S. Army Co – WETLAND DETERMINATION DATA SHEET See ERDC/EL TR-10-3; the p	Western M	ountains, Val		-	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cour	nty: Teton C	County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point: 6
Investigator(s): GR		Section, T	ownship, Ra	nge: S10 T4N R	45E
Landform (hillside, terrace, etc.):			oncave, conv	/ex, none):	
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Furniss-Boquet complex, 0-1% s					classification: PSS1C
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?			
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	re "Normal (Circumstances" pre	esent? Yes X No
Are Vegetation, Soil, or Hydrology	naturally prol	blematic? (I	f needed, ex	plain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showir	ng sampling	g point lo	cations, transe	ects, important features, etc.
Hydric Soil Present? Yes X N	lo lo		Sampled A		<u>X</u> No
VEGETATION – Use scientific names of p	lante				
VEGETATION - Use scientific fiames of p	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30' x 30')	% Cover	Species?	Status	Dominance Te	st worksheet:
1. Populus tremuloides	60	Yes	FACU		ninant Species That
2				Are OBL, FACV	
4.				Across All Strat	of Dominant Species ta: 3 (B)
Sapling/Shrub Stratum (Plot size:)	=Total Cover			inant Species That
2.				Prevalence Inc	lex worksheet:
3				Total % Co	
4				OBL species	
5		=Total Cover		FACW species FAC species	
Herb Stratum (Plot size: 5' x 5')				FACU species	$\begin{array}{c} 90 \\ \hline 60 \\ \hline x 4 = \\ 240 \end{array}$
1. Schedonorus arundinaceus	40	Yes	FAC	UPL species	0 x 5 = 0
2. Agrostis stolonifera	30	Yes	FAC	Column Totals:	165 (A) 525 (B)
3. <u>Carex nebrascensis</u>	15	No	OBL	Prevalence	Index = B/A =3.18
4. Phleum pratense	20	No	FAC		
5.					egetation Indicators:
6 7.					est for Hydrophytic Vegetation nce Test is >50%
8.					nce Index is $\leq 3.0^{1}$
9.				4 - Morphol	ogical Adaptations ¹ (Provide supporting
10					Remarks or on a separate sheet)
11	105	=Total Cover			l Non-Vascular Plants ¹ c Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				ydric soil and wetland hydrology must ess disturbed or problematic.
2		=Total Cover		Hydrophytic Vegetation Present?	Yes_X_ No

	• •	to the dep				ator or c	onfirm the absence o	of indicators.)				
Depth	Matrix			x Featur		. 2						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-7	10YR 2/2	100					Loamy/Clayey					
7-14	10YR 2/2	95	10YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations				
							·					
¹ Type: C=Cor	ncentration, D=Depl	etion, RM=	Reduced Matrix, C	S=Cove	red or C	oated Sa	and Grains. ² Loca	ation: PL=Pore Lining, M=Matrix.				
Hydric Soil Ir	ndicators: (Applica	ble to all L	RRs, unless othe	erwise n	oted.)		Indicator	s for Problematic Hydric Soils ³ :				
Histosol (A1) Sandy Gleyed Matrix (S4)						2 cm	Muck (A10) (LRR A, E)					
Histic Epi	pedon (A2)		Sandy Rec	dox (S5)			Iron-I	Iron-Manganese Masses (F12) (LRR D)				
Black His	tic (A3)		Stripped M	latrix (S6	5)		Red I	Parent Material (F21)				
Hydrogen	Sulfide (A4)		Loamy Mu	cky Mine	eral (F1)	(except	MLRA 1) Very	Shallow Dark Surface (F22)				
1 cm Muc	k (A9) (LRR D, G)		Loamy Gle	eyed Mat	rix (F2)		Othe	r (Explain in Remarks)				
Depleted	Below Dark Surface	e (A11)	Depleted N	/latrix (F	3)							
Thick Dar	k Surface (A12)		X Redox Dar	k Surfac	e (F6)		³ Indicators of hydrophytic vegetation and					
Sandy Mu	ucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	wetla	nd hydrology must be present,				
2.5 cm M	ucky Peat or Peat (S	62) (LRR G	i) Redox Dep	pression	s (F8)		unles	s disturbed or problematic.				
Restrictive L	ayer (if observed):											
Туре:												
Depth (inches): Yes _>							? Yes <u>X</u> No					
Remarks:						P						

Wetland Hydrology Indicators:							
Primary Indicators (minimum of one is requ	Primary Indicators (minimum of one is required; check all that apply)						
Surface Water (A1)	Water-Stained Leaves (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 (C2)					
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roo	ts (C3) X Geomorphic Position (D2)					
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)	(C6) FAC-Neutral Test (D5)						
Surface Soil Cracks (B6)	(LRR A) Raised Ant Mounds (D6) (LRR A)						
Inundation Visible on Aerial Imagery (B	7) X Other (Explain in Remarks)	Frost-Heave Hummocks (D7)					
Sparsely Vegetated Concave Surface (B8)						
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)							
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspectio	ns), if available:					
Remarks:							
Hydrology is likely based upon herbaceous	vegetation present and hydric soils. Lots of sha	allow swales are present throughout forest. At the same					
elevation as innundation visible in Google E	Earth 2017 imagery.						

U.S. Army Co		-			OMB Control #: 0710-0024, Exp: 11/30/2024
WETLAND DETERMINATION DATA SHEET – See ERDC/EL TR-10-3; the p				•	Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point: 7
Investigator(s): GR		Section, T	ownship, Ra	nge: S10 T4N R	45E
Landform (hillside, terrace, etc.):					
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Zohner-Zohner, frequently floode					classification: PEM1C
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?			no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	-			esent? Yes X No
Are Vegetation, Soil, or Hydrology				plain any answers	
SUMMARY OF FINDINGS – Attach site m					
	-				
	o		Sampled A		
	lo lo	withi	n a Wetland	? Yes	<u>X</u> No
Remarks:	<u> </u>				
Nemarks.					
VEGETATION – Use scientific names of p					
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st workshoot
1.	78 COVEI	Opecies:	Status		ninant Species That
2.				Are OBL, FACV	
3.				Total Number o	f Dominant Species
4.				Across All Strat	
		=Total Cover			inant Species That
Sapling/Shrub Stratum (Plot size:				Are OBL, FACV	V, or FAC: <u>100.0%</u> (A/B)
1				Brovalonco Ind	lex worksheet:
2				Total % Co	
4.				OBL species	0 x 1 = 0
5.				FACW species	2 x 2 = 4
		=Total Cover		FAC species	98 x 3 =294
<u>Herb Stratum</u> (Plot size: <u>5' x 5'</u>)	05	Maa	540	FACU species	1 x4 = 4
1. Phleum pratense 2. Poa pratensis	<u>35</u> 20	Yes No	FAC FAC	UPL species Column Totals:	
3. Trifolium repens	8	No	FAC		Index = B/A = 2.99
4. Schedonorus arundinaceus	35	Yes	FAC		
5. Achillea millefolium	1	No	FACU	Hydrophytic V	egetation Indicators:
6. Equisetum hyemale	2	No	FACW		est for Hydrophytic Vegetation
7					nce Test is >50%
8					nce Index is ≤3.0 ¹
9 10.					ogical Adaptations ¹ (Provide supporting emarks or on a separate sheet)
10					Non-Vascular Plants ¹
	101	=Total Cover			c Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hy	vdric soil and wetland hydrology must
1				be present, unle	ess disturbed or problematic.
2		Tatal O		Hydrophytic	
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes_XNo
Remarks:				i i coent:	

Profile Desc Depth	ription: (Describe to Matrix	o the dep		ument tł ox Featur		tor or co	onfirm the ab	sence of in	ndicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	e	Remarks		
0-2	10YR 2/1	100					Muck				
2-11	10YR 2/1	100					Loamy/Cla	avev			
11-16	10YR 5/2	90	10YR 4/4	10	С	М	Loamy/Cla		Distinct	redox concer	trations
	ncentration, D=Deple					bated Sa				re Lining, M=N	-
•	ndicators: (Applicat	ble to all I					In			matic Hydric	Soils':
Histosol			Sandy Gle	-	rix (S4)		2 cm Muck (A10) (LRR A, E)				
	pedon (A2)		Sandy Re	• •			Iron-Manganese Masses (F12) (LRR I				
Black His	()		Stripped Matrix (S6)					_	ent Materia	. ,	
Hydroger	n Sulfide (A4)		Loamy Mu	icky Mine	eral (F1)	(except l	MLRA 1)			Surface (F22	2)
1 cm Mu	ck (A9) (LRR D, G)		Loamy Gle	eyed Mat	rix (F2)			Other (E	xplain in F	Remarks)	
X Depleted	Below Dark Surface	(A11)	Depleted I	Matrix (F	3)						
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	e (F6)		³ lı	ndicators o	f hydrophy	tic vegetation	and
Sandy M	ucky Mineral (S1)		Depleted I	Dark Sur	face (F7)			wetland	hydrology	must be pres	ent,
2.5 cm M	ucky Peat or Peat (S	2) (LRR (G)Redox De	pression	s (F8)			unless d	isturbed o	r problematic.	
Restrictive L	ayer (if observed):										
Туре:											
Depth (in	ches):						Hydric Soil	Present?		Yes X	No
Remarks:											

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is require	Secondary Indicators (2 or more required)	
Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2	
High Water Table (A2)	4A, and 4B)	
Saturation (A3)	Drainage Patterns (B10)	
Water Marks (B1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roo	ts (C3) X Geomorphic Position (D2)
Algal Mat or Crust (B4)	Shallow Aquitard (D3)	
Iron Deposits (B5)	(C6) FAC-Neutral Test (D5)	
Surface Soil Cracks (B6)	R A) Raised Ant Mounds (D6) (LRR A)	
Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8))	
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspectio	ons), if available:
Remarks:		
Located in a low spot downslope from a ditch.	Hydrology is likely based upon vegetation a	ind soils present.

U.S. Army Co - WETLAND DETERMINATION DATA SHEET See ERDC/EL TR-10-3; the p	Western Mo	ountains, Va		•	OMB Control #: 0710-0024, Ex Requirement Control Symbo (Authority: AR 335-15, parag	DI EXEMPT:
		City/Cou			Sampling Date:	11/8/2024
Applicant/Owner: John Martin					D Sampling Point:	8
		Section T	ownshin Ra	nge: S10 T4N R		
Landform (hillside, terrace, etc.):						 ⊃e (%)∙ 1
Subregion (LRR/MLRA): LRR E, MLRA 43B						WGS84
Soil Map Unit Name: Zohner-Zohner, frequently floode					classification: PEM1C	110304
Are climatic / hydrologic conditions on the site typical f						
Are Vegetation, Soil, or Hydrology		-			esent? Yes X No	C
Are Vegetation, Soil, or Hydrology				plain any answers		
						uraa ata
SUMMARY OF FINDINGS – Attach site m	-				ects, important leat	ures, etc.
	lo		e Sampled A n a Wetland		Y No	
	lo lo	withi	n a wetianu	e tes	X No	
Remarks:	<u> </u>					
Nemarks.						
VEGETATION – Use scientific names of p	olants.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Dominance Te		
				Number of Dom Are OBL, FACV	hinant Species That	2 (A)
2. 3.					f Dominant Species	(//)
4.				Across All Strat		2 (B)
		=Total Cover		Percent of Dom	inant Species That	
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACV	V, or FAC: 10	0.0% (A/B)
1						
2				Prevalence Ind		
3				Total % Co OBL species		
4 5.				FACW species		
	:	=Total Cover		FAC species		273
Herb Stratum (Plot size: 5' x 5')				FACU species	0 x 4 =	0
1. Bromus inermis	8	No	UPL	UPL species	8 x 5 =	40
2. Phleum pratense	38	Yes	FAC	Column Totals:		320 (B)
3. Poa pratensis	38	Yes	FAC	Prevalence I	ndex = $B/A = 3.08$	<u>}</u>
Schedonorus arundinaceus Trifolium repens	<u> </u>	<u>No</u> No	FAC FAC	Hydronhytic V	egetation Indicators:	
6. Equisetum hyemale	2	No	FACW		est for Hydrophytic Veget	ation
7. Carex nebrascensis	3	No	OBL	·	nce Test is >50%	
8.				3 - Prevaler	nce Index is ≤3.0 ¹	
9.					ogical Adaptations ¹ (Provid	
10					emarks or on a separate	sheet)
11	404	Total Oraci			I Non-Vascular Plants ¹	(Evolata)
Woody Vine Stratum (Plot size:		=Total Cover			c Hydrophytic Vegetation ¹	
Woody Vine Stratum (Plot size:1.)				/dric soil and wetland hydess disturbed or problema	
2.					see alocarbod of problema	
		=Total Cover		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum				Present?	Yes <u>X</u> No	_
Remarks:						

Profile Desc Depth	cription: (Describe	to the dept		ument th		tor or c	onfirm the abs	sence of	indicators	.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-10	10YR 2/1	100					Loamy/Cla	yey			
10-13	10YR 4/2	90	10YR 4/6	10	С	М	Loamy/Cla	yey	Promine	nt redox conc	entrations
,,	oncentration, D=Depl	-				pated Sa				ore Lining, M=	
Histosol			Sandy Gle		-					-	30115 .
	oipedon (A2)		Sandy Re	-	17 (04)		2 cm Muck (A10) (LRR A, E) Iron-Manganese Masses (F12) (LRR D)				
Black His	,	Stripped N	• •	:)			-	rent Mater	. ,		
	n Sulfide (A4)		Loamy Mu	`	,	(ovcont	MI PA 1)			k Surface (F2	2)
	ick (A9) (LRR D, G)		Loamy Gle	•	• •	(except			Explain in I		-)
	Below Dark Surface	(() 11)	Depleted I	•	• •					Kemarks)	
·	ark Surface (A12)	; (ATT)	Redox Da		,		³ Ir	dicatore	of hydroph	ytic vegetatior	and
	lucky Mineral (S1)		Depleted I		. ,		"			must be pres	
	lucky Peat or Peat (S2) (I PP C			• •				, 0,	or problematic	
	-			010331011	3 (1 0)			uncoo			•
	Layer (if observed):										
Type: Depth (ir	achae):	—				Hydric Soil Present? Yes X N					
	iches).						Hyune Son F	resent?		Yes X	No
Remarks:											

Wetland Hydrology Indicato	rs:						
Primary Indicators (minimum	of one is required	Secondary Indicators (2 or more required)					
Surface Water (A1)) (except	Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)		4A, and 4B)					
Saturation (A3)		Drainage Patterns (B10)					
Water Marks (B1))	Dry-Season Water Table (C2)				
Sediment Deposits (B2))	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Oxio	dized Rhizospheres on	Living Roots (C3)	Geomorphic Position (D2)		
Algal Mat or Crust (B4)		(C4)	Shallow Aquitard (D3)				
Iron Deposits (B5)		illed Soils (C6)	X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6)		Raised Ant Mounds (D6) (LRR A)					
Inundation Visible on Aerial Imagery (B7) X Other (Explain in Remarks)					Frost-Heave Hummocks (D7)		
Sparsely Vegetated Conc	ave Surface (B8)				—		
Field Observations:							
Surface Water Present?	Yes	No X	Depth (inches):				
Water Table Present?	Yes	No X					
Saturation Present?	Yes	No X	Depth (inches):	Wetlan	d Hydrology Present? Yes X No		
(includes capillary fringe)					· · ·		
Describe Recorded Data (stre	am gauge, monit	oring wel	l, aerial photos, previou	is inspections), if ava	ailable:		
		•					
Remarks:							
Hydrology is likely based upor	n vegetation and	soils pres	sent.				

U.S. Army Co		-			OMB Control #: 0710-0024, Exp: 11/30/2024
WETLAND DETERMINATION DATA SHEET – See ERDC/EL TR-10-3; the p				•	Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State:I	D Sampling Point: 9
Investigator(s): GR		Section, T	ownship, Ra	nge: S10 T4N R	45E
Landform (hillside, terrace, etc.):					
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Zohner-Zohner, frequently floode					classification: PEM1C
Are climatic / hydrologic conditions on the site typical f					no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology					esent? Yes X No
Are Vegetation, Soil, or Hydrology				plain any answers	
SUMMARY OF FINDINGS – Attach site m	ap snowir	ig sampling	g point lo	cations, transe	ects, important features, etc.
	o	Is the	e Sampled A	rea	
	o	withi	n a Wetland	? Yes	<u>X</u> No
Wetland Hydrology Present? Yes X N	o				
Remarks:					
L VEGETATION – Use scientific names of p	lanta				
VEGETATION - Use scientific fiames of p	Absolute	Dominant	Indicator		
Tree Stratum (Plot size:)		Species?	Status	Dominance Te	st worksheet:
1					ninant Species That
2.				Are OBL, FACV	V, or FAC: <u>2</u> (A)
3.					f Dominant Species
4		=Total Cover		Across All Strat	(-)
Sapling/Shrub Stratum (Plot size:				Are OBL, FACV	inant Species That V, or FAC: 100.0% (A/B)
1				/	.,
2.				Prevalence Inc	lex worksheet:
3.				Total % Co	
4				OBL species	
5				FACW species	
Herb Stratum (Plot size: 5' x 5')		=Total Cover		FAC species FACU species	$\begin{array}{c} 93 \\ 0 \\ x 4 = \\ \end{array} \begin{array}{c} 279 \\ x 4 = \\ \end{array}$
1. Phleum pratense	40	Yes	FAC	UPL species	$0 x^4 = 0 0 x^5 = 0$
2. Schedonorus arundinaceus	30	Yes	FAC	Column Totals:	
3. Carex pellita	8	No	OBL	Prevalence	Index = B/A = 2.79
4. Poa pratensis	20	No	FAC		
5. Juncus balticus	4	No	FACW		egetation Indicators:
6. <u>Trifolium repens</u>	3	No	FAC		est for Hydrophytic Vegetation
7. <u>Carex nebrascensis</u> 8.	1	No	OBL		nce Test is >50% nce Index is ≤3.0 ¹
0					ogical Adaptations ¹ (Provide supporting
10					emarks or on a separate sheet)
11.				5 - Wetland	Non-Vascular Plants ¹
	106	=Total Cover			c Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				dric soil and wetland hydrology must
1				be present, unle	ess disturbed or problematic.
2		Tatal O		Hydrophytic	
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	
				FIESEIIL?	Yes_XNo
Remarks:					

Profile Desc Depth	ription: (Describe f Matrix	to the dep		u ment th x Featur		tor or co	onfirm the	absence o	f indicators	s.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Remarks		
0-10	10YR 2/1	100	/				Loamy/	Clavev				
10-14	10YR 4/2	94	10YR 4/6	6	С	М	Loamy/		Prominent redox concentration			
								elajej				
·												
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, C	CS=Cove	red or Co	bated Sa	nd Grains.	² Loca	tion: PL=Pc	ore Lining, M=I	Matrix.	
<i>,</i>	ndicators: (Applica	,	,							matic Hydric		
Histosol ((A1)		Sandy Gle	yed Mat	, rix (S4)			2 cm	Muck (A10)	(LRR A, E)		
Histic Epi	ipedon (A2)		Sandy Red	dox (S5)	. ,			Iron-N	langanese l	Masses (F12)	(LRR D)	
Black His	tic (A3)		Stripped N	latrix (Se	6)			Red F	arent Mater	ial (F21)		
Hydroger	n Sulfide (A4)		Loamy Mu	icky Mine	eral (F1)	(except	MLRA 1)	Very S	Shallow Dar	k Surface (F22	2)	
1 cm Muo	ck (A9) (LRR D, G)		Loamy Gle	eyed Mat	rix (F2)			Other	(Explain in	Remarks)		
X Depleted	Below Dark Surface	e (A11)	Depleted N	Matrix (F:	3)							
Thick Da	rk Surface (A12)		Redox Dar	rk Surfac	e (F6)			³ Indicators	s of hydroph	ytic vegetatior	and	
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)			wetlar	nd hydrology	/ must be pres	ent,	
2.5 cm M	ucky Peat or Peat (S	62) (LRR G	i)Redox Dep	pression	s (F8)			unless	s disturbed o	or problematic		
Restrictive L	ayer (if observed):											
Туре:												
Depth (in	ches):						Hydric So	oil Present	?	Yes X	No	
Remarks:												

Wetland Hydrology Indicators:						
Primary Indicators (minimum of one is required	Secondary Indicators (2 or more required)					
Surface Water (A1)	Water-Stained Leaves (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 (C2)				
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roc	ts (C3) X Geomorphic Position (D2)				
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)				
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	(C6) X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRF	R A) Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)				
Sparsely Vegetated Concave Surface (B8)	—	_				
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monited	oring well, aerial photos, previous inspectio	ons), if available:				
Remarks:						
Located in a low point, downslope from a ditch.						

U.S. Army Co WETLAND DETERMINATION DATA SHEET – See ERDC/EL TR-10-3; the pi	Western M	ountains, Va	-	-	OMB Control #: 0710-0024, Exp Requirement Control Symbo (Authority: AR 335-15, parag	I EXEMPT:
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date:	11/8/2024
Applicant/Owner: John Martin			·	State: I	D Sampling Point:	10
		Section, 1	ownship, Ra	nge: S10 T4N R		
Landform (hillside, terrace, etc.):						o (%)· 2
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u> Soil Map Unit Name: Zohner-Zohner, frequently floode					classification: PEM1C	WG364
Are climatic / hydrologic conditions on the site typical f					no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology			Are "Normal (Circumstances" pre	esent? Yes <u>X</u> No)
Are Vegetation, Soil, or Hydrology	naturally prol	blematic? (If needed, ex	plain any answers	in Remarks.)	
SUMMARY OF FINDINGS – Attach site m	-				ects, important featu	ures, etc.
	o o		e Sampled A n a Wetland		X No	
	o	with		: 163		
Remarks: Highest spot in vicinity		I				
VEGETATION – Use scientific names of p	ants.	Dominant	Indicator			
Tree Stratum (Plot size:)		Species?	Status	Dominance Te	st worksheet:	
1					ninant Species That	- (I)
2				Are OBL, FACV	-	2 (A)
3.				Total Number o Across All Strat	f Dominant Species	۵ (D)
4		=Total Cover				<u>2</u> (B)
Sapling/Shrub Stratum (Plot size:1.				Are OBL, FACV	inant Species That V, or FAC: 100	0.0% (A/B)
2.				Prevalence Ind	lex worksheet:	
3				Total % Co	over of: Multiply	by:
4				OBL species		0
5				FACW species		8
		=Total Cover		FAC species		240
Herb Stratum (Plot size: <u>5' x 5'</u>) 1. Bromus inermis	12	No	UPL	FACU species UPL species		16 60
2. Phleum pratense	35	Yes	FAC	Column Totals:		324 (B)
3. Trifolium repens	5	No	FAC		Index = B/A = 3.24	()
4. Achillea millefolium	4	No	FACU			
5. Juncus balticus	4	No	FACW	Hydrophytic Ve	egetation Indicators:	
6. Schedonorus arundinaceus	35	Yes	FAC	1 - Rapid To	est for Hydrophytic Vegeta	ation
7. Poa pratensis	5	No	FAC		nce Test is >50%	
8					nce Index is ≤3.0 ¹	
9					ogical Adaptations ¹ (Provid Remarks or on a separate s	
10					I Non-Vascular Plants ¹	shoot)
11	100	=Total Cover			c Hydrophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hy	vdric soil and wetland hydr	ology must
2.						
% Bare Ground in Herb Stratum		=Total Cover		Hydrophytic Vegetation Present?	Yes X No	
				i i coont :		-
Remarks:						

Profile Descr Depth	iption: (Describe f Matrix	to the dept		ument th x Featur		tor or co	onfirm the	absence of	f indicators	5.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture		Remarks		
0-12	10YR 2/1	100					Loamy/Clayey					
12-16	10YR 4/2	95	10YR 4/6	5	С	М	Loamy/	/Clayey	Promine	ent redox con	centrations	
		<u> </u>										
¹ Type: C=Co	ncentration, D=Depl	etion RM=	Reduced Matrix C	S=Cove	red or Co	pated Sa	and Grains	² Locat	tion: PI =P	ore Lining, M=	-Matrix	
71	ndicators: (Applica	,	,							ematic Hydri		
Histosol (Sandy Gle		•			2 cm l	Muck (A10)	(LRR A, E)		
Histic Epi	pedon (A2)		Sandy Red	dox (S5)				Iron-M	langanese	Masses (F12)) (LRR D)	
Black Hist	tic (A3)		Stripped N	latrix (S6	6)			Red P	arent Mate	rial (F21)		
Hydrogen	Sulfide (A4)		Loamy Mu	cky Mine	eral (F1)	except	MLRA 1)	Very S	Shallow Dar	k Surface (F2	22)	
1 cm Muc	k (A9) (LRR D, G)		Loamy Gle	eyed Mat	rix (F2)			Other	(Explain in	Remarks)		
X Depleted	Below Dark Surface	e (A11)	Depleted N	Matrix (F:	3)							
Thick Dar	k Surface (A12)		Redox Dar	k Surfac	e (F6)			³ Indicators	of hydroph	nytic vegetatio	on and	
Sandy Mu	ucky Mineral (S1)		Depleted D	Dark Sur	face (F7)			wetlar	nd hydrolog	y must be pre	esent,	
2.5 cm M	ucky Peat or Peat (S	62) (LRR G	Redox Dep	pression	s (F8)			unless	s disturbed	or problemati	с.	
Restrictive La	ayer (if observed):											
Туре:												
Depth (ind	ches):						Hydric So	oil Present	?	Yes X	No	
Remarks:												

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n of one is require	Secondary Indicators (2 or more required)								
Surface Water (A1)		Water-Stained Leaves (B9) (MLRA 1, 2								
High Water Table (A2)			ML	RA 1, 2, 4A, and 4B)	4A, and 4B)					
Saturation (A3)			Salt C	rust (B11)	Drainage Patterns (B10)					
Water Marks (B1)			Aquati	c Invertebrates (B13)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)			Hydrog	gen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)			Oxidize	ed Rhizospheres on Living Roc	ots (C3) Geomorphic Position (D2)					
Algal Mat or Crust (B4)			Preser	nce of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)			Recen	t Iron Reduction in Tilled Soils	(C6) FAC-Neutral Test (D5)					
Surface Soil Cracks (B6)		Stunte	d or Stressed Plants (D1) (LR	R A) Raised Ant Mounds (D6) (LRR A)					
Inundation Visible on Ae	erial Imagery (B7)	Х	Other	(Explain in Remarks)	Frost-Heave Hummocks (D7)					
Sparsely Vegetated Cor	ncave Surface (B8)								
Field Observations:										
Surface Water Present?	Yes	No	Х	Depth (inches):						
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)										
Describe Recorded Data (st	ream gauge, mon	toring	well, a	erial photos, previous inspection	ons), if available:					
Remarks:										
Hydorlogy is likely based upon vegetation and soils present.										

U.S. Army Co WETLAND DETERMINATION DATA SHEET – See ERDC/EL TR-10-3; the pi	Western M	ountains, Va	-	-	OMB Control #: 0710-0024, Exp Requirement Control Symbo (Authority: AR 335-15, parag	I EXEMPT:
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date:	11/8/2024
Applicant/Owner: John Martin				State: I		11
		Section 7	Fournahin Ro			
				nge: <u>S15 T4N R4</u>		(2.1)
Landform (hillside, terrace, etc.):						
Subregion (LRR/MLRA): LRR E, MLRA 43B						WGS84
Soil Map Unit Name: Zohner-Zohner, frequently floode					classification: PEM1C	
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If r	no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "Normal (Circumstances" pre	esent? Yes <u>X</u> No)
Are Vegetation, Soil, or Hydrology	naturally prol	blematic? (If needed, ex	plain any answers	in Remarks.)	
SUMMARY OF FINDINGS – Attach site m	-				ects, important featu	ures, etc.
Hydric Soil Present? Yes X N	o o		e Sampled A n a Wetland		<u>X</u> No	
Remarks: Highest spot in vicinity						
VEGETATION – Use scientific names of p	Jante					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)		Species?	Status	Dominance Te	st worksheet:	
1					ninant Species That	a (b)
2				Are OBL, FACV		2 (A)
3.				Total Number of Across All Strat	f Dominant Species	2 (B)
4		=Total Cover			inant Species That	<u> </u>
Sapling/Shrub Stratum (Plot size:				Are OBL, FACV		0.0% (A/B)
2.				Prevalence Ind	lex worksheet:	
3.				Total % Co		by:
4.				OBL species		0
5.				FACW species	0 x 2 =	0
		=Total Cover		FAC species	95 x 3 = 2	285
Herb Stratum (Plot size: 5' x 5')				FACU species	5 x 4 =	20
1. Phleum pratense	45	Yes	FAC	UPL species		0
2. Cirsium vulgare	1	No	FACU	Column Totals:		805 (B)
Ora pratensis Taraxacum officinale	<u> </u>	Yes	FAC FACU	Prevalence I	ndex = $B/A = 3.05$	·
5. Trifolium repens	10	<u>No</u> No	FAC	Hydrophytic V	egetation Indicators:	
6. Achillea millefolium	1	No	FACU		est for Hydrophytic Vegeta	ation
7. Schedonorus arundinaceus	10	No	FAC		nce Test is >50%	
8.				3 - Prevaler	nce Index is ≤3.0 ¹	
9.				4 - Morpholo	ogical Adaptations ¹ (Provid	le supporting
10				data in R	emarks or on a separate s	sheet)
11					I Non-Vascular Plants ¹	
	<u>100</u>	=Total Cover			c Hydrophytic Vegetation ¹	
Woody Vine Stratum (Plot size: 1.)				/dric soil and wetland hydr ess disturbed or problemat	
2				Hydrophytic		
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes <u>X</u> No	_
Remarks:						

Depth	Matrix		Redo	x Featur	es						
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Тех	ture		Remarks	
0-14	10YR 2/2	95	10YR 4/6	5	<u> </u>	PL/M	Loamy	ent redox conce	entrations		
				_	_						
				_		_					
51	oncentration, D=Depl		-			bated Sa	nd Grains.			ore Lining, M=I	
	Indicators: (Applica	ble to all I			,					ematic Hydric	Solls":
Histosol	()		Sandy Gle	•	rix (54)				. ,	(LRR A, E)	
	pipedon (A2)		Sandy Rec	• •					•	Masses (F12)	(LRR D)
	stic (A3)		Stripped M	``	,				arent Mate	()	
	n Sulfide (A4)		Loamy Mu	•	. ,	except	MLRA 1)			rk Surface (F22	<u>(</u>)
	Ick (A9) (LRR D, G)	()	Loamy Gle		` '			Other	(Explain in	Remarks)	
	d Below Dark Surface	(A11)	Depleted N	``	,			3			
	ark Surface (A12)		X Redox Dar		` '				, ,	nytic vegetatior	
	lucky Mineral (S1)		Depleted D		· · ·				, ,	y must be pres	,
	Mucky Peat or Peat (S	52) (LRR (B) Redox Dep	ression	S (F8)			uniess	s disturbed	or problematic	•
Restrictive	Layer (if observed):										
Type:											
Depth (ii	nches):						Hydric S	oil Present	?	Yes X	No
lemarks:											

Wetland Hydrology Indica	tors:									
Primary Indicators (minimun	n of one is require	Secondary Indicators (2 or more required)								
Surface Water (A1)		Water-Stained Leaves (B9) (MLRA 1, 2								
High Water Table (A2)			MLF	RA 1, 2, 4A, and 4B)	4A, and 4B)					
Saturation (A3)		;	Salt Cr	ust (B11)	Drainage Patterns (B10)					
Water Marks (B1)		_	Aquatio	: Invertebrates (B13)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)			Hydrog	en Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)			Oxidize	d Rhizospheres on Living Roo	ts (C3) Geomorphic Position (D2)					
Algal Mat or Crust (B4)		_	Presen	ce of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)			Recent	Iron Reduction in Tilled Soils	(C6) FAC-Neutral Test (D5)					
Surface Soil Cracks (B6	i)		Stunted	d or Stressed Plants (D1) (LRI						
Inundation Visible on Ae	erial Imagery (B7)	Х	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)					
Sparsely Vegetated Cor	ncave Surface (B8) (_					
Field Observations:										
Surface Water Present?	Yes	No	Х	Depth (inches):						
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:										
Hydrology likely based on vegetation and soils present										

U.S. Army Co	•	-			OMB Control #: 0710-0024, Ex	
WETLAND DETERMINATION DATA SHEET - See ERDC/EL TR-10-3; the p		-	•	-	Requirement Control Symbo (Authority: AR 335-15, parag	
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date:	11/8/2024
Applicant/Owner: John Martin				State: I	D Sampling Point:	12
Investigator(s): GR		Section, T	ownship, Ra	nge: S15 T4N R	45E	
Landform (hillside, terrace, etc.):						e (%): 1
Subregion (LRR/MLRA): LRR E, MLRA 43B						
Soil Map Unit Name: Furniss-Boquet complex, 0-1%					classification: PEM1C	
Are climatic / hydrologic conditions on the site typical	for this time o	f vear?				
Are Vegetation, Soil, or Hydrology)
Are Vegetation, Soil, or Hydrology	_			plain any answers		
SUMMARY OF FINDINGS – Attach site m	_					ures, etc.
	No		e Sampled A		Y N-	
	No No	withi	n a Wetland	? Yes	<u>X</u> No	
Remarks: High spot surrounded by swales						
VEGETATION – Use scientific names of	plants.					
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st worksheet:	
1				Number of Dom Are OBL, FACV	ninant Species That V, or FAC:	2 (A)
3.				Total Number o Across All Strat	f Dominant Species	2 (B)
4.	<u> </u>	=Total Cover			inant Species That	<u> </u>
Sapling/Shrub Stratum (Plot size:				Are OBL, FACV		0.0% (A/B)
1				Prevalence Ind	lex worksheet:	
3.				Total % Co	over of: Multiply	by:
4.				OBL species	2 x 1 =	2
5				FACW species		0
		=Total Cover		FAC species		303
Herb Stratum (Plot size: 5' x 5')	0	Nia	FACU	FACU species	2 x 4 =	8
Achillea millefolium Trifolium repens	<u>2</u> 50	No Yes	FACU FAC	UPL species Column Totals:	0 x 5 = 105 (A) 3	0 313 (B)
3. Phleum pratense	10	No	FAC		ndex = B/A = 2.98	()
4. Poa pratensis	40	Yes	FAC			
5. Plantago major	1	No	FAC	Hydrophytic Ve	egetation Indicators:	
6. Carex pellita	2	No	OBL		est for Hydrophytic Vegeta	ation
7					nce Test is >50%	
8					nce Index is $\leq 3.0^1$	
9					ogical Adaptations ¹ (Provic emarks or on a separate s	
10					l Non-Vascular Plants ¹	Sileet)
11	105	=Total Cover			c Hydrophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:	_)			¹ Indicators of hy	/dric soil and wetland hydr	ology must
2.						
% Bare Ground in Herb Stratum		=Total Cover		Hydrophytic Vegetation Present?	Yes X No	
				Fiesent?	103 <u>^</u> NU	-
Remarks:						

Profile Desc Depth	ription: (Describe Matrix	to the dep		ument th x Featur		tor or co	onfirm the absenc	e of indic	ators.)	
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	arks
0-7	10YR 2/1	100	X Y				Loamy/Clayey	_		
7-14	10YR 4/1	85	10YR 4/4	15	С	М	Loamy/Clayey		istinct redox of	concentratio
							Louing/oldyby			Sonoonnadio
Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, C	CS=Cove	ered or Co	bated Sa	nd Grains. ² Lo	ocation: F	PL=Pore Linin	g, M=Matrix
lydric Soil I	Indicators: (Applica	ble to all	LRRs, unless othe	erwise n	oted.)		Indica	tors for P	roblematic H	lydric Soils
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		2 c	m Muck (A10) (LRR A	, E)
Histic Ep	vipedon (A2)		Sandy Re	dox (S5)			Iro	n-Mangar	nese Masses	(F12) (LRR
Black His	stic (A3)		Stripped N	latrix (S6	5)		Re	d Parent	Material (F21))
Hydroge	n Sulfide (A4)		Loamy Mu	icky Mine	eral (F1)	except	MLRA 1) Ve	ry Shallov	v Dark Surfac	e (F22)
1 cm Mu	ck (A9) (LRR D, G)		Loamy Gle	eyed Mat	trix (F2)		Ot	her (Expla	ain in Remark	s)
X Depleted	Below Dark Surface	e (A11)	X Depleted I	Matrix (F	3)					
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	ce (F6)		³ Indica	tors of hy	drophytic veg	etation and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Sur	face (F7)		we	tland hyd	rology must b	e present,
2.5 cm M	lucky Peat or Peat (62) (LRR (G) Redox De	pression	s (F8)		un	less distu	rbed or proble	ematic.
Restrictive L	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Prese	ent?	Yes	X No
Remarks:										

Wetland Hydrology Indicat	tors:								
Primary Indicators (minimun	n of one is require	Secondary Indicators (2 or more required)							
Surface Water (A1)		Water-Stained Leaves (B9) (MLRA 1, 2							
High Water Table (A2)			ML	.RA 1, 2, 4A, and 4B)	4A, and 4B)				
Saturation (A3)			Salt C	rust (B11)	Drainage Patterns (B10)				
Water Marks (B1)			Aquati	c Invertebrates (B13)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydro	gen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Oxidiz	ed Rhizospheres on Living Roo	ots (C3) Geomorphic Position (D2)				
Algal Mat or Crust (B4)			Prese	nce of Reduced Iron (C4)	Shallow Aquitard (D3)				
Iron Deposits (B5)			Recen	t Iron Reduction in Tilled Soils	(C6) FAC-Neutral Test (D5)				
Surface Soil Cracks (B6	i)		Stunte	ed or Stressed Plants (D1) (LRI	R A) Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Ae	erial Imagery (B7)	Х	Other	(Explain in Remarks)	Frost-Heave Hummocks (D7)				
Sparsely Vegetated Cor	ncave Surface (B8)							
Field Observations:									
Surface Water Present?	Yes	No	Х	Depth (inches):					
Water Table Present?	Yes	No	Х	Depth (inches):					
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)									
Describe Recorded Data (st	ream gauge, moni	toring	well, a	erial photos, previous inspection	ons), if available:				
Remarks:									
Hydrology is likely based on vegetation and soils present									

U.S. Army Co WETLAND DETERMINATION DATA SHEET -	•	-	lleys, and C	oast Region	OMB Control #: 0710-0024, Ex Requirement Control Symbo (Authority: AR 335-15, parac	I EXEMPT:			
See ERDC/EL TR-10-3; the p	roponent a	gency is CE	CW-CO-F	R	(Authority: AR 335-15, parag	rapn 5-2a)			
Project/Site: Martin - Darby Meadow Ranch		City/Cou	nty: Teton C	County	Sampling Date:	11/8/2024			
Applicant/Owner: John Martin	Applicant/Owner: John Martin State:								
Investigator(s): GR		Section, T	ownship, Ra	nge: S15 T4N R4	45E				
Landform (hillside, terrace, etc.):		Local relief (c	oncave, conv	ex, none):	Slop	be (%):			
Subregion (LRR/MLRA): LRR E, MLRA 43B									
Soil Map Unit Name: Furniss-Boquet complex, 0-1%					classification: PEM1C				
Are climatic / hydrologic conditions on the site typical	for this time o	f vear?							
Are Vegetation, Soil, or Hydrology)			
Are Vegetation, Soil, or Hydrology				plain any answers					
SUMMARY OF FINDINGS – Attach site m	-					ures, etc.			
Hydric Soil Present? Yes X	10 10 10		e Sampled A n a Wetland		<u>X</u> No				
Remarks: Located on highest spot in vicinity									
VEGETATION – Use scientific names of									
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st worksheet:				
1				Number of Dom Are OBL, FACV	iinant Species That V, or FAC:	3 (A)			
3.				Total Number of Across All Strate	f Dominant Species	(D)			
4	·	=Total Cover				<u>3</u> (B)			
Sapling/Shrub Stratum (Plot size:				Are OBL, FACV	inant Species That V, or FAC: 10	0.0% (A/B)			
1 2.	- <u> </u>			Prevalence Ind	lex worksheet:				
3.				Total % Co	over of: Multiply	by:			
4.				OBL species		10			
5				FACW species		0			
		=Total Cover		FAC species		234			
Herb Stratum (Plot size: 5' x 5')	•		FAOL	FACU species		<u>64</u>			
Dactylis glomerata Carduus nutans	81	No No	FACU UPL	UPL species Column Totals:		5 313 (B)			
3. Cirsium arvense	8	No	FAC	-	105 (A) 3 ndex = B/A = 2.98	. ,			
4. Poa pratensis	25	Yes	FAC	i revalence i					
5. Schedonorus arundinaceus	20	Yes	FAC	Hydrophytic Ve	egetation Indicators:				
6. Phleum pratense	20	Yes	FAC		est for Hydrophytic Vegeta	ation			
7. Achillea millefolium	8	No	FACU	X 2 - Dominar	nce Test is >50%				
8. Carex nebrascensis	10	No	OBL	X 3 - Prevaler	nce Index is ≤3.0 ¹				
9. <u>Trifolium repens</u> 10	5	No	FAC		ogical Adaptations ¹ (Provid emarks or on a separates				
11.				5 - Wetland	Non-Vascular Plants ¹				
	105	=Total Cover			Hydrophytic Vegetation ¹	(Explain)			
Woody Vine Stratum (Plot size: 1.)				vdric soil and wetland hydi				
2.				Hydrophytic					
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes X No				
						_			
Remarks:									

Profile Description: (Describe to the de	pth needed to doc	ument th	e indica	tor or co	onfirm the absence of	f indicators.)		
Depth Matrix	Redo	x Feature						
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-10 10YR 2/2 100					Loamy/Clayey			
10-16 10YR 4/2 65	10YR 4/6	35	С	М	Loamy/Clayey	Prominent redox concentrations		
			<u> </u>					
¹ Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all				bated Sa		tion: PL=Pore Lining, M=Matrix.		
Histosol (A1)	Sandy Gle			Muck (A10) (LRR A, E)				
Histic Epipedon (A2)	Sandy Red		1X (04)			langanese Masses (F12) (LRR D)		
Black Histic (A3)	Stripped M	. ,)			Parent Material (F21)		
Hydrogen Sulfide (A4)		•	,	excent		Shallow Dark Surface (F22)		
1 cm Muck (A9) (LRR D, G)		Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) Other (Explain in Remarks)						
X Depleted Below Dark Surface (A11)		X Depleted Matrix (F3)						
Thick Dark Surface (A12)		Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and						
Sandy Mucky Mineral (S1)		Depleted Dark Surface (F7) wetland hydrology must be pre-						
2.5 cm Mucky Peat or Peat (S2) (LRR	G) Redox De	pressions	s (F8)		unless disturbed or problematic.			
Restrictive Layer (if observed):								
Туре:								
Depth (inches):					Hydric Soil Present	? Yes <u>X</u> No		
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:								

Primary Indicators (minimum of c	one is required; che		Secondary Indicators (2 or more required)				
Surface Water (A1)		_Water-Stained Leaves (B9) (e	ccept	Water-Stained Leaves (B9) (MLRA 1, 2			
High Water Table (A2)			4A, and 4B)				
Saturation (A3)			Drainage Patterns (B10)				
Water Marks (B1)			Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Oxidized Rhizospheres on Livi	ng Roots (C3)	ots (C3) Geomorphic Position (D2)			
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)	Shallow Aquitard (D3)			
Iron Deposits (B5)		Recent Iron Reduction in Tilled	l Soils (C6)	FAC-Neutral Test (D5)			
Surface Soil Cracks (B6)		Stunted or Stressed Plants (D	1) (LRR A)	Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Aerial I	magery (B7) X	Other (Explain in Remarks)		Frost-Heave Hummocks (D7)			
Sparsely Vegetated Concave	e Surface (B8)						
Field Observations:							
Surface Water Present? Ye	es No	X Depth (inches):					
Water Table Present? Ye	es No	X Depth (inches):					
Saturation Present? Ye	es No	X Depth (inches):	Wetland	Hydrology Present? Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monitoring	g well, aerial photos, previous ir	spections), if avai	lable:			
Remarks:							
Hydrology likely based on vegeta	tion and soils prese	sent					

U.S. Army Co - WETLAND DETERMINATION DATA SHEET See ERDC/EL TR-10-3; the p	- Western M	ountains, Va		•	OMB Control #: 0710-0024, Ex Requirement Control Symbo (Authority: AR 335-15, parag	DI EXEMPT:
	•			County	Sampling Date:	11/8/2024
Applicant/Owner: John Martin				State: II	D Sampling Point:	14
Investigator(s): GR		Section, T	ownship, Ra	nge: S15 T4N R4	45E	
Landform (hillside, terrace, etc.):		Local relief (c	oncave, conv	vex, none):	Slop	be (%):
Subregion (LRR/MLRA): LRR E, MLRA 43B	Lat:	43.67774	0°	Long: <u>-111.13140</u>	0° Datum:	WGS84
Soil Map Unit Name: Badgerton-Arimo complex 0-2%	slopes			NWI	classification: PEM1C	
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes <u>X</u>	No (If r	o, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	re "Normal (Circumstances" pre	sent? Yes <u>X</u> No	D
Are Vegetation, Soil, or Hydrology	naturally pro	blematic? (lf needed, ex	plain any answers	in Remarks.)	
SUMMARY OF FINDINGS – Attach site m	ap showir	ng sampling	g point lo	cations, transe	ects, important feat	ures, etc.
Hydric Soil Present? Yes X	lo lo lo		e Sampled A n a Wetland		<u>X</u> No	
VEGETATION – Use scientific names of	nlante					
VEGETATION – Use scientific names of	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover		Status	Dominance Tes	st worksheet:	
1. 2.				Number of Dom Are OBL, FACV	inant Species That /, or FAC:	2 (A)
3.				Total Number of	Dominant Species	
4				Across All Strata	a:	2(B)
Sapling/Shrub Stratum (Plot size:)	=Total Cover		Percent of Dom Are OBL, FACW	inant Species That /, or FAC:10	0.0% (A/B)
1 2				Prevalence Ind	ex worksheet:	
3.				Total % Co	over of: Multiply	by:
4	<u> </u>			OBL species		5
5				FACW species		0
Herb Stratum (Plot size: 5' x 5')		=Total Cover		FAC species FACU species	95 x 3 = 2 0 x 4 =	285 0
1. Trifolium repens	20	Yes	FAC	UPL species	0 x 5 =	0
2. Poa pratensis	50	Yes	FAC	Column Totals:		290 (B)
3. Agrostis stolonifera	15	No	FAC	Prevalence I	ndex = $B/A = 2.90$)
4. Phleum pratense	10	No	FAC			
5. Juncus articulatus	5	No	OBL		egetation Indicators:	
6.	·				est for Hydrophytic Vegeta nce Test is >50%	ation
7 8.	<u> </u>				ice lest is $>50\%$ ice lindex is $≤3.0^1$	
					ogical Adaptations ¹ (Provid	le supporting
9 10					emarks or on a separate	
11				5 - Wetland	Non-Vascular Plants ¹	
	100	=Total Cover		Problematic	Hydrophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size: 1.	_)				dric soil and wetland hyd ss disturbed or problema	
2.				Hydrophytic		
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes <u>X</u> No	
Remarks:				I		

Profile Desc Depth	cription: (Describe	to the dep		ument th		tor or co	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	% realur	Type ¹	Loc ²	Texture	Remarks		
0-10	10YR 2/1	100			Турс	200	Loamy/Clayey	Komano		
10-16	10YR 4/1	80	10YR 3/6	20	С	M	Loamy/Clayey	Prominent redox concentrations		
			1011(3/0							
¹ Type: C=C	oncentration, D=Depl		=Reduced Matrix, C	 CS=Cove	ered or Co		nd Grains. ² Loca	ation: PL=Pore Lining, M=Matrix.		
	Indicators: (Applica							rs for Problematic Hydric Soils ³ :		
Histosol	(A1)	Sandy Gle	yed Mat	rix (S4)		2 cm	Muck (A10) (LRR A, E)			
Histic Ep	oipedon (A2)	Sandy Red	lox (S5)			Iron-	Manganese Masses (F12) (LRR D)			
Black Hi	istic (A3)		Stripped N	latrix (S6	i)		Red	Parent Material (F21)		
Hydroge	en Sulfide (A4)		Loamy Mu	cky Mine	əral (F1) ((except l	MLRA 1) Very	Shallow Dark Surface (F22)		
1 cm Mu	uck (A9) (LRR D, G)		Loamy Gle	Loamy Gleyed Matrix (F2) Other (Explain in Remarks)						
X Depleted	d Below Dark Surface	e (A11)	X Depleted N	Matrix (F3)						
Thick Da	ark Surface (A12)		Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation a							
Sandy M	lucky Mineral (S1)		Depleted Dark Surface (F7) wetland hydrology must be pr							
2.5 cm M	Mucky Peat or Peat (62) (LRR (G) Redox Dep	oression	s (F8)		unles	ss disturbed or problematic.		
	Layer (if observed):									
Type:										
Depth (inches):							Hydric Soil Presen	t? Yes <u>X</u> No		
Remarks:										
HYDROLC										
Wetland Hy	drology Indicators:									

Primary Indicators (minimum	of one is required	Secondary Indicators (2 or more required)					
Surface Water (A1)		Water-S	tained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2			
High Water Table (A2)		4A, and 4B)					
Saturation (A3)		Drainage Patterns (B10)					
Water Marks (B1)		Aquatic	Invertebrates (B13)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Hydroge	n Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9) pots (C3) X Geomorphic Position (D2)			
Drift Deposits (B3)		Oxidized	Rhizospheres on Living Roo				
Algal Mat or Crust (B4)		Presenc	e of Reduced Iron (C4)	Shallow Aquitard (D3)			
Iron Deposits (B5)		Recent I	ron Reduction in Tilled Soils	(C6) X FAC-Neutral Test (D5)			
Surface Soil Cracks (B6)		Stunted	or Stressed Plants (D1) (LRI	R A) Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Ae	rial Imagery (B7)	Other (E	xplain in Remarks)	Frost-Heave Hummocks (D7)			
Sparsely Vegetated Con	cave Surface (B8))					
Field Observations:							
Surface Water Present?	Yes	No <u>X</u>	Depth (inches):				
Water Table Present?	Yes	No <u>X</u>	Depth (inches):				
Saturation Present?	Yes	No <u>X</u>	Depth (inches):	Wetland Hydrology Present? Yes X No			
(includes capillary fringe)							
Describe Recorded Data (str	eam gauge, moni	toring well, aer	rial photos, previous inspection	ons), if available:			
Remarks:							
Downslope from ditch							

U.S. Army Co WETLAND DETERMINATION DATA SHEET - See ERDC/EL TR-10-3; the p	-	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)								
Project/Site: Martin - Darby Meadow Ranch				County	Sampling Date: 11/8/2024					
Applicant/Owner: John Martin				State: I						
		Section	Townshin Ra							
Landform (hillside, terrace, etc.): Local relief (concave, convex, none): Slope (%): 1 Subregion (LRR/MLRA): LRR E, MLRA 43B Lat: 43.678903° Long: -111.131736° Datum: WGS84										
Soil Map Unit Name: Zohner-Zohner, frequently flood					classification: PEM1C					
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes X	No (If r	no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "Normal (Circumstances" pre	esent? Yes X No					
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If needed, ex	plain any answers	in Remarks.)					
SUMMARY OF FINDINGS – Attach site m	ap showir	ng samplir	ng point lo	cations, transe	ects, important features, etc.					
	lo		e Sampled A in a Wetland		X No					
	10			•						
Remarks: Highest spot in vicinity										
VEGETATION – Use scientific names of	plants.									
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st worksheet:					
1				Number of Dom Are OBL, FACV	ninant Species That V, or FAC: 2 (A)					
3.				Total Number of Across All Strat	f Dominant Species					
4	·	=Total Cover			(-/					
Sapling/Shrub Stratum (Plot size:				Are OBL, FACV	inant Species That V, or FAC: <u>100.0%</u> (A/B)					
2.	·			Prevalence Ind	lex worksheet					
3.	·			Total % Co						
4.	·			OBL species	6 x 1 = 6					
5.				FACW species	0 x 2 = 0					
		=Total Cover		FAC species	92 x 3 = 276					
Herb Stratum (Plot size: 5' x 5')				FACU species	3 x 4 = 12					
1. Phleum pratense	50	Yes	FAC	UPL species	0 x 5 = 0					
2. Poa pratensis	30	Yes	FAC	Column Totals:						
3. Cirsium vulgare	1	No	FACU	Prevalence I	ndex = B/A = 2.91					
4. <u>Taraxacum officinale</u> 5. Trifolium repens	2 12	<u>No</u> No	FACU FAC	Hydrophytic V/	egetation Indicators:					
6. Carex pellita	2	No	OBL		est for Hydrophytic Vegetation					
7. Carex utriculata	4	No	OBL		nce Test is >50%					
8.				X 3 - Prevaler	nce Index is ≤3.0 ¹					
9.				4 - Morpholo	ogical Adaptations ¹ (Provide supporting					
10				data in R	emarks or on a separate sheet)					
11					I Non-Vascular Plants ¹					
	101	=Total Cover		Problematio	c Hydrophytic Vegetation ¹ (Explain)					
Woody Vine Stratum (Plot size: 1.)				/dric soil and wetland hydrology must ess disturbed or problematic.					
2.				Hydrophytic						
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes X No					
Remarks:				1						

Profile Descr Depth	iption: (Describe	to the depth		iment th x Featur		tor or c	onfirm the	absence of i	ndicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture		Remarks	
0-7	10YR 2/2	100					Mu	uck			
7-17	10YR 2/2	100					Loamy	/Clayey			
		<u> </u>									
		<u> </u>									
1								2			
	ncentration, D=Depl	,				pated Sa	and Grains.			e Lining, M=	-
-	ndicators: (Applica	ble to all LF						Indicators f		-	Solis":
· · · · ·	Histosol (A1)			yed Mat	rix (54)				uck (A10) (I	-	
	pedon (A2)		Sandy Rec	• •					-	asses (F12)	(LRR D)
Black His	()		Stripped M	`	,		Red Parent Material (F21)				
	Sulfide (A4)		X Loamy Mu	,	()	except	ept MLRA 1) Very Shallow Dark Surface (F22) Other (Explain in Remarks)				
	k (A9) (LRR D, G)		Loamy Gle	•	` '			Other (E	xplain in R	emarks)	
·	Below Dark Surface	e (A11)	Depleted N	•	,			2			
	k Surface (A12)		Redox Dar		` '			³ Indicators o		0	
·	ucky Mineral (S1)		Depleted D		• • •					must be pres	
2.5 cm M	ucky Peat or Peat (S2) (LRR G)	Redox Dep	pression	s (F8)			unless d	listurbed or	r problematic	
Restrictive L	ayer (if observed):										
Туре:											
Depth (inc	ches):		_				Hydric Se	oil Present?		Yes X	No
Remarks:											

Wetland Hydrology Indicators:							
Primary Indicators (minimum of one is requ	Secondary Indicators (2 or more required)						
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (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 (C2)					
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roo						
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	(C6) FAC-Neutral Test (D5)					
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRF	R A) Raised Ant Mounds (D6) (LRR A)					
Inundation Visible on Aerial Imagery (B		Frost-Heave Hummocks (D7)					
Sparsely Vegetated Concave Surface (B8)						
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)							
	onitoring well, aerial photos, previous inspectio	ons), if available:					
Remarks:							
	Hydrology is likely based on vegetation and soils present.						

U.S. Army Co – WETLAND DETERMINATION DATA SHEET See ERDC/EL TR-10-3; the p	- Western M	- ountains, Val		-	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Martin - Darby Meadow Ranch		City/Cour	nty: Teton (County	Sampling Date: 11/8/2024
Applicant/Owner: John Martin				State: ID	
		Section, T		inge: S10 T4N R4	
Landform (hillside, terrace, etc.):					
Subregion (LRR/MLRA): LRR E, MLRA 43B					
Soil Map Unit Name: Zohner-Zohner, frequently floode					classification: PEM1C
Are climatic / hydrologic conditions on the site typical f					
Are Vegetation, Soil, or Hydrology					sent? Yes X No
Are Vegetation, Soil, or Hydrology				plain any answers in	
SUMMARY OF FINDINGS – Attach site m					
	-	<u> </u>			
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N			Sampled A		
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N		Within	n a Wetland	? tes_	NoX
Remarks:					
Disturbed site, compacted fill likely placed when irrigation	ation diversior	n structure was	installed ne	arby.	
VEGETATION – Use scientific names of p					
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:
1.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,000000			nant Species That
2.				Are OBL, FACW	•
3.	·			Total Number of	Dominant Species
4.				Across All Strata	
Sapling/Shrub Stratum (Plot size:		=Total Cover		Percent of Domin Are OBL, FACW	nant Species That , or FAC: 33.3% (A/B)
	-			AIE OBL, FACTO	, OFAC. <u>33.3 /0 (7</u> /0)
1. 2.				Prevalence Inde	ex worksheet:
3.				Total % Cov	
4.				OBL species	0 x 1 = 0
5				FACW species	
		=Total Cover		FAC species	
Herb Stratum (Plot size: 5' x 5')	05	Vaa	וחוי	FACU species	$\begin{array}{c} 41 \\ 27 \\ 77 \\ 77 \\ 76 \\ 76 \\ 76 \\ 76 \\ 76$
Bromus inermis Achillea millefolium	<u> </u>	Yes No	UPL FACU	UPL species Column Totals:	$\begin{array}{ccc} 27 & x 5 = & 135 \\ \hline 98 & (A) & 389 & (B) \end{array}$
3. Cynoglossum officinale	2	No	FACU	Prevalence In	()
4. Elymus lanceolatus	30	Yes	FACU		
5. Poa pratensis	25	Yes	FAC	Hydrophytic Ve	getation Indicators:
6. Carduus nutans	2	No	UPL		st for Hydrophytic Vegetation
7. Trifolium repens	5	No	FAC		ce Test is >50%
8. Taraxacum officinale	5	No	FACU		ce Index is $\leq 3.0^1$
9					gical Adaptations ¹ (Provide supporting marks or on a separate sheet)
10 11.					Non-Vascular Plants ¹
····	98	=Total Cover			Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				dric soil and wetland hydrology must
1	·				ss disturbed or problematic.
2	·			Hydrophytic	
		=Total Cover		Vegetation	
% Bare Ground in Herb Stratum				Present?	Yes <u>No X</u>
Remarks:					

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Text	ture	Remarks	
		. <u> </u>								
<u> </u>										
	oncentration, D=Deple					pated Sa	and Grains.		_=Pore Lining, M	
-	Indicators: (Applicab	le to all LR						Indicators for Pr	•	c Soils':
Histosol	()		Sandy Gle	•	rix (S4)			`	A10) (LRR A, E)	
	pipedon (A2)		Sandy Red	. ,			Iron-Manganese Masses (F12) (LRR D)			
Black Hi	istic (A3)		Stripped N	latrix (Se	5)		Red Parent Material (F21)			
Hydroge	en Sulfide (A4)		Loamy Mu	cky Mine	eral (F1)	(except	MLRA 1) Very Shallow Dark Surface (F22)			
1 cm Mu	uck (A9) (LRR D, G)		Loamy Gle	eyed Mat	trix (F2)			Other (Explai	n in Remarks)	
Depleted	d Below Dark Surface	(A11)	Depleted N	/latrix (F	3)					
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	e (F6)			³ Indicators of hyd	rophytic vegetatio	on and
Sandy M	lucky Mineral (S1)		Depleted E	Dark Sur	face (F7)			wetland hydro	ology must be pre	esent,
2.5 cm I	Mucky Peat or Peat (S2	2) (LRR G)	Redox Dep	pression	s (F8)			unless disturl	oed or problemati	с.
Restrictive	Layer (if observed):									
Type:			-							
Depth (i	nches):		-				Hydric So	oil Present?	Yes	<u>No X</u>
Remarks:										
	d rocky, cannot dig									

Wetland Hydrology Indicators:						
Primary Indicators (minimum of one is require	Secondary Indicators (2 or more required)					
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)	4A, and 4B)					
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)				
Water Marks (B1)	Water Marks (B1) Aquatic Invertebrates (B13)					
Sediment Deposits (B2)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roc	ots (C3) Geomorphic Position (D2)				
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)				
Iron Deposits (B5)	(C6) FAC-Neutral Test (D5)					
Surface Soil Cracks (B6)	R A) Raised Ant Mounds (D6) (LRR A)					
Inundation Visible on Aerial Imagery (B7)	Frost-Heave Hummocks (D7)					
Sparsely Vegetated Concave Surface (B						
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes No X				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	ons), if available:				
Remarks:						
Very firm and rocky, cannot dig						