OCTOBER 6, 2022

FRAIZ PROPERTY

AQUATIC RESOURCE INVENTORY

PREPARED BY:

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PREPARED FOR:

Brian and Whitney Fraiz 11005 Pleasantview Drive Carmel IN 46033



EXECUTIVE SUMMARY

Aquatic resources within a 40-acre area of interest (AOI) on private property on W 5000 S in Victor, ID were delineated based on standard field procedures and review of maps and aerial imagery.

Waters of the U.S. identified included 32.9 acres of wetlands and stream within the 40-acre area of interest (AOI).

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 (version 8.0, 2016).

The dominant hydrologic influence within the AOI is surface water and associated high groundwater from Foster's Slough, Fox Creek, and irrigation ditches.



Map of Wetland Features delineated 2022

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1. INTRODUCTION

Intermountain Aquatics visited the site in June and August of 2022 to investigate the presence and extent of aquatic resources and to delineate jurisdictional wetlands. The property is located in Teton County, northwest of Victor, ID. The owners are developing plans for the site including a homesite and associated structures. An existing conservation easement held by Teton Regional Land Trust specifies a 5-acre building envelope in the northeast corner of the property.

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

Applicant / Property Owner:

Brian and Whitney Fraiz 11005 Pleasantview Drive Carmel IN 46033

Agent:

Jeffrey Klausmann Intermountain Aquatics, Inc. 116 Mustang Dr. / PO Box 1115 Driggs, ID 83422

3. LOCATION

The Fraiz Property is located in Teton County, Idaho, near Victor (Figure 1) in NE4 NE4 SEC 29 T4N R45E. The property is private land. It is situated on Fox Creek at the south end of Foster's Slough, a half mile from the Teton River. The property is accessed from W 5000 S.

Figure 1. Vicinity Map



4. LANDSCAPE SETTING

The Fraiz property is located within the Teton River Basin within a large complex of emergent wetlands. Fox Creek and an unnamed tributary run through the south side of the property. Foster Slough extends across the northwest quadrant of the property to Fox Creek near the center of the 40-acre parcel. Three large culverts allow water to pass under W 5000 S into the main portion of Foster Slough. The property is relatively flat with slight topographic variation formed around a network of swales branching off Foster's Slough. An irrigation ditch enters the property in the northeast quarter at which point irrigation water appears to return to natural swales.

The property has been grazed for many years and there is a relative lack of woody vegetation on the north side of Fox Creek compared to the south side which is more difficult for cattle to access. The site is dominated by herbaceous species, primarily sedges and grasses. Woody vegetation includes primarily willows and shrubby cinquefoil.

The property's main hydrologic influences are surface water and associated high groundwater in Fox Creek, the unnamed tributary, and Foster Slough as well as an unknown amount of irrigation water entering the property on the northeast corner. Foster Slough was historically more connected from the south side to the north side of W 5000 S, enough so that boats could pass through from Fox Creek. Recently, the channel has been mostly disconnected and boats can no longer float though Foster Slough, and upper Foster Slough was dry during every site visit in 2022.

5. METHODS

5.A. DATA SOURCES & FIELD DATA COLLECTION

Prior to conducting field investigations, various data sources were reviewed to gather preliminary information on land use history, vegetation, soils, and hydrologic characteristics of the site. The following data sources were reviewed prior to the field investigation:

- □ U.S.G.S topographic maps
- □ Aerial Photographs (Google Earth, NAIP)
- D National Wetlands Inventory (U.S. Fish and Wildlife Service)
- □ FEMA Flood Hazard GIS maps
- □ Historic aerial imagery
- USDA NRCS Soil Survey
- National Hydrography Dataset

Wetlands were delineated according to the 1987 manual, memorandums and the 2010 Western Mountains, Valleys, and Coast Region supplement. The Western Mountains, Valleys, and Coast Region 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 (version 8.0, 2016).

During multiple site visits conducted in August 2022 IMA identified the presence and extent of wetlands and other aquatic resources within the AOI. Sample points were located in potential wetland and upland areas. Field data was recorded on data sheets copied from the 2010 Western Mountains, Valleys, and Coast Region supplement. A test pit was dug at each sample location to characterize soils and hydrology. Wetland determinations were made at each

sample point to confirm and/or refine the initial wetland mapping. Wetlands were then delineated from a change in vegetation and topography. Wetlands were field mapped, recorded by using GPS tracks and/or sketched onto aerial imagery.

5.B. MAPPING RELEVANT TO DELINEATION & LANDSCAPE SETTING



Figure 2. 2020 USGS Topo of Area of Interest

Figure 3. 1992 USGS Topo of Area of Interest



Figure 4. 2019 NAIP Aerial Image



Figure 5 Google earth image aerial June 2017



Figure 6 Google earth image aerial July 2016



Figure 7.Google earth image aerial June 2009



Figure 8 Google earth image aerial July 1999



Figure 9 Google earth image aerial June 1992





Figure 10 NWI Map of Area of Interest

Figure 11 USGS National Hydrography Map of Project Location





Figure 12. Draft FEMA Floodplain Flood Risk Map

6. AQUATIC RESOURCES

Wetlands were found throughout the AOI totaling 32.9 acres. Wetlands are roughly two-thirds palustrine emergent sedge meadows north and east of Fox Creek and one-third scrub-shrub wetland concentrated south of Fox Creek. Wetlands are supported by seasonal high groundwater and surface water in Fox Creek and Foster's Slough. Vegetation generally transitions from predominantly FAC to FACW species in the wetlands, to FACW to FACU in the uplands. Sample points that lacked hydrology had a higher prevalence of FACU species. Most of the sample points were characterized by dark loamy soils and many with a lighter-colored clay layer below at variable depths. Riverine resources on the property include a total of 1776 linear feet of Fox Creek (C1) and 602 linear feet of an unnamed tributary to Fox Creek.

Aquatic Resource Name	Aquatic Resource Type	Cowardin Classification	Location (WGS84)	Area (acres)	Linear Feet
Wı	Wetland	PEM1	43°38'58.18"N, 111° 9'49.89"W	17.3	n/a
W2	Wetland	PEM1	43°38'51.14"N, 111° 9'41.86"W	4.5	n/a
W ₃	Wetland	PSS	43°38'50.80"N, 111° 9'54.31"W	8.7	n/a
Cı	Creek	R3UB1H	43°38'54.19"N, 111° 9'51.30"W	1.9	1776
C2	Creek	R3UB1H	43°38'55.38"N, 111° 9'44.52"W	0.5	662

Table 1. Aquatic Resources within the Area of Interest

7. 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

Merdel, M.K., Lichvar, R.W. A Guide to Ordinary High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States. US Army Corps of Engineers

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. 2016 Field Indicators of Hydric Soils in the United States. Version 8.0

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.htm. 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/.

APPENDIX A - AQUATIC RESOURCE INVENTORY MAP



APPENDIX B - SUMMARY OF SAMPLE POINT INFORMATION

Sample Point Information

Sample Point	Lat	Long	Resources Present	Feature Label
1	43°39'1.08"N	111° 9'41.87"W	Upland	NA
2	43°39'0.06"N	111° 9'41.81"W	Wetland	W1
3	43°38'58.26"N	111° 9'40.93"₩	Upland	NA
4	43°38'57.48"N	111° 9'42.80"W	Wetland	W1
5	43°38'53.62"N	111° 9'42.30"W	Upland	NA
6	43°38'55.86"N	111° 9'50.79"W	Upland	NA
7	43°38'53.22"N	111° 9'55.38"₩	Upland	NA
8	43°38'52.51"N	111° 9'57.22"₩	Wetland	W3



1A Sample Point



2A Sample Point



3A Sample Point



1B Sample Point



2B Sample Point



3B Sample Point



4A Sample Point



5A Sample Point



6A Sample Point



4B Sample Point



5B Sample Point



6B Sample Point



7A Sample Point



7B Sample Point

8 Sample Point

APPENDIX C – PHOTOGRAPHS

General Photo Points

From W 5000 S looking south along Foster Slough

From W 5000 S looking southeast from Foster Slough

Northwest corner of property looking east

Center property near Fox Creek looking west

Fraiz Property ARI

Fox Creek north side looking southeast

North side of unnamed creek looking east

Fox Creek north side looking south

Confluence of unnamed creek and Fox Creek looking south

Unnamed creek looking southwest

Northeast side of property looking east

Swale on east side of property looking northwest

Existing culvert crossing across unnamed creek

Northeast side of property looking

Unnamed creek looking southwest

Fox creek bank erosion, north side

Upland area on north west side of property looking west

Connection between Foster's Slough and Fox Creek

Foster's slough looking northwest

Foster's slough looking northwest

North central property looking southeast

Northeast property looking south

Willow stands south of Fox Creek

Willow stands south of Fox Creek

Willow stands south of Fox Creek

APPENDIX D: PLANT LIST

Genus	species	Common	wis
Achillea	millefolium	Common yarrow	FACU
Agrostis	stolonifera	Creeping bentgrass	FACW
Alopecurus	pratensis	field meadow foxtail	FACW
Aster	laevis	Smooth aster	FACU
Bromus	inermis	Smooth brome	FAC
Carex	nebrasensis	Nebraska sedge	FACW
Carduus	nutans	Musk thistle	FAC
Cirsium	arvense	Canada thistle	FAC
Iris	missouriensis	Western blue flag iris	FACW
Juncus	arcticus (aka balticus)	Arctic rush	FACW
Medicago	lupulina	black medic	FACU
Phleum	pratense	timothy	FAC
Plantago	major	Broadleaf plantain	FAC
Potentilla	pulcherrima	Soft cinquefoil	FAC
Taraxacum	officinale	Dandelion	FACU

APPENDIX E – WETLAND DELINEATION DATA FORMS

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

Project/Site: Fraiz		City/County	: Teton			Sampling Date:	8/4/22	
Applicant/Owner:	Brian Fraiz		State: ID			Sampling Point:	1	
Investigator(s): EV		Section, To	Section, Township, Range: N			NE4NE4 SEC 29 T4N R45E		
Landform (hillside, te	errace, etc.):	Local relief (con	Local relief (concave, convex, none):			Slope (%):		
Subregion (LRR):	LRR E, MLRA 43B Lat: 43°39)'1.08"N	Long: 111° 9	9'41.87"W		Datum:	WGS84	
Soil Map Unit Name	Furniss-Boquet complex			N	WI classif	fication: PEM		
Are climatic / hydrolo	ogic conditions on the site typical fo	or this time of year? Ye	es <u>X</u> N	o	(If no, exp	olain in Remarks.)		
Are Vegetation	, Soil, or Hydrology	significantly disturbed? Are	"Normal Circu	mstances"	present?	Yes <u>X</u> No)	
Are Vegetation	, Soil, or Hydrology	naturally problematic? (If i	needed, explair	n any answ	ers in Rer	marks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	Is the Sampled Area within a Wetland?	Yes	NoX
Remarks:						

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
(Plot size:)	% Cover	Species?	Status	Dominance lest worksneet:
1				Number of Dominant Species That
2		·		Are OBL, FACW, or FAC: <u>2</u> (A)
3		·		Total Number of Dominant Species
4		Tatal Oscar		Across All Strata: <u>2</u> (B)
	、 <u> </u>	= I otal Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1				Providence a la deve consulado e etc
2		·		Prevalence Index worksneet:
3		·		I otal % Cover of: Multiply by:
4		·		
5		Tatal Cause		FACW species 25 $x^2 = 50$
		= I otal Cover		FAC species $60 \times 3 = 180$
Herb Stratum (Plot size: 5' x 5')	05		=	FACU species 15 x 4 = 60
1. Carex nebrascensis	25	Yes	FACW	UPL species $0 \times 5 = 0$
2. Plantago major	10	No	FAC	Column Totals: 100 (A) 290 (B)
3. Medicago lupulina	10	No	FACU	Prevalence Index = B/A = 2.90
4. Taraxacum officinale	5	No	FACU	
5. Fac Grasses	50	Yes	FAC	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
9				4 - Morphological Adaptations ¹ (Provide supporting
10				data in Remarks or on a separate sheet)
11				5 - Wetland Non-Vacular Plants ¹
	100	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

SOIL

Jepin	Depth Matrix			x Featur	es					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks	
0-2	10YR 3/3	100								
2-10	10YR 3/2	100								
10-14	10YR 4/1	100		_	_	_				
ype: C=Co	ncentration, D=Depl	letion, RM=Re	educed Matrix, C	S=Cove	ered or Co	ated Sa	and Grains.	² Location:	PL=Pore Lining, M=Ma	atrix.
ydric Soil li	ndicators: (Applica	ble to all LR	Rs, unless othe	erwise n	oted.)			Indicators for	Problematic Hydric S	oils":
	(A1)			10X (55)					(A10)	
Histic Epi	ipedon (A2)		Stripped M	latrix (Se	5)			Red Parent	Material (F21)	
Black His	stic (A3)		Loamy Mu	cky Mine	eral (F1) (except	MLRA 1)	Very Shallo	w Dark Surface (F22)	
Hydroger	n Sulfide (A4)		Loamy Gle	eyed Mat	trix (F2)			Other (Expl	ain in Remarks)	
Depleted	Below Dark Surface	e (A11)	X Depleted N	/atrix (F	3)					
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)					
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)			³ Indicators of hy	/drophytic vegetation a	and
2.5 cm M Sandy Gl	ucky Peat or Peat (eyed Matrix (S4)	S2) (LRR G)	Redox Dep	pression	s (F8)			wetland hyd unless distu	drology must be preser urbed or problematic.	nt,
estrictive L	ayer (if observed):									
Туре:			_							
	ches):						Hydric So	oil Present?	Yes X	No

HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n 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)			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	en Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Oxidize	ed Rhizospheres on Living Ro	ots (C3)	Geomorphic Position (D2)				
Algal Mat or Crust (B4)			Preser	ice 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 Ae	erial Imagery (B7)	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 X Depth (inches): Wetlar			Wetland	nd Hydrology Present? Yes No X				
(includes capillary fringe)		_								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:										

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

Project/Site: Fraiz	Project/Site: Fraiz						City/County: Teton						2
Applicant/Owner:	Brian Fra	niz						Samplii	ng Point:	2) -		
Investigator(s): EV					Section	ı, Township	o, Range:	NE4NE4	24NE4 SEC 29 T4N R45E				
Landform (hillside, te	Local relief		Slope (%):										
Subregion (LRR):	LRR E, N	/ILRA 43B	Lat:	43°39'0.02"N		Lon	g: <u>111° 9</u>	'41.62"W			Datum:	WGS	34
Soil Map Unit Name:	Furniss-E	Boquet comp	lex					N	IWI classif	fication: P	PEM		
Are climatic / hydrolc	ogic condit	ions on the s	ite ty	pical for this time	e of year?	Yes)	<u>(</u> No	o	(If no, exp	olain in Re	marks.)		
Are Vegetation	, Soil	, or Hydro	logy	significantl	y disturbed?	Are "Nori	mal Circur	nstances'	' present?	Yes	X No	o	
Are Vegetation	, Soil	, or Hydro	logy	naturally p	roblematic?	(If neede	d, explain	any answ	ers in Rer	marks.)			
SUMMARY OF	FINDING	SS – Attac	h si	te map show	ing sampl	ing poin	t locati	ons, tra	nsects,	import	ant feat	ures,	etc.

|--|

bottom of shallow swale

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1		·		Number of Dominant Species That
2		·		Are OBL, FACW, or FAC:1_(A)
3		·		Total Number of Dominant Species
4				Across All Strata:1_(B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:				Are OBL, FACW, or FAC:(A/B)
1				
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species 100 x 2 = 200
	u	=Total Cover		FAC species 0 x 3 = 0
Herb Stratum (Plot size: 5' x 5')				FACU species <u>0</u> x 4 = <u>0</u>
1. Carex nebrascensis	95	Yes	FACW	UPL species 0 x 5 = 0
2. Juncus balticus	5	No	FACW	Column Totals: 100 (A) 200 (B)
3				Prevalence Index = B/A = 2.00
4.				
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
9.				4 - Morphological Adaptations ¹ (Provide supporting
10.		·		data in Remarks or on a separate sheet)
11.		·		5 - Wetland Non-Vacular Plants ¹
	100	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

SOIL

Depth	Matrix	to the dept	Redo	x Featur	es							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	xture	Remarks			
0-4	10YR 2/2	100	X									
4-10	10YR 3/2	100										
10-16	10VR 4/2	100										
10-10	10111 4/2	100										
		lation DM-	Doducod Matrix (rad ar C	eted C	and Crains	² l agation.	Dero Lining M-	Matrix		
Type. C-Co	Indicators (Applica		Reduced Matrix, C			baled Sa	and Grains	Indicators for F	PL-Pore Lining, M-			
	(A1)		Sandy Por		olea.)					50115 .		
	(AI)		Sanuy Red	10x(33)	2)			2 cm wuck	(AIU) Motorial (E21)			
	opedon (AZ)) aral (E1) /	avaant						
	slic (A3)				eral (F1)	except	(F22)					
Hydroge	n Suilide (A4)	(Loamy Ge	eyed Ma	(FZ)				ain in Remarks)			
	Below Dark Surface	e (A11)		/latrix (F	3)							
	ark Surface (A12)		Redox Dar	K Surfac	ce (F6)			3				
	lucky Mineral (S1)			Jark Sur	face (F7)			Indicators of hy	drophytic vegetatio	n and		
2.5 cm N	lucky Peat or Peat (52) (LRR G)Redox Dep	pression	s (⊦8)			wetland hyd	rology must be pre	sent,		
Sandy G	leyed Matrix (S4)							unless distu	rbed or problematio).		
Restrictive I	_ayer (if observed):											
Type:												
Depth (ir	nches):						Hydric S	Soil Present?	Yes X	No		
Remarks [.]												
Soil, crumbly	, dry, without much s	structure										
, ,												

HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimum	n of one is required	; che	ck all the	at apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)			Water-S	Stained Leaves (B9) (except		Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)			MLR	A 1, 2, 4A, and 4B)		4A, and 4B)				
Saturation (A3)			Salt Cru	ıst (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatic	Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydroge	en Sulfide Odor (C1)		X 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)	X FAC-Neutral Test (D5)							
Surface Soil Cracks (B6)		Stunted	or Stressed Plants (D1) (LR	R A)	Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Ae	rial Imagery (B7)		Other (E	Explain in Remarks)		Frost-Heave Hummocks (D7)				
Sparsely Vegetated Con	cave 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	i Hydrology Present? Yes X No				
(includes capillary fringe)										
Describe Recorded Data (str	eam gauge, monit	oring	well, ae	rial photos, previous inspecti	ons), if ava	ilable:				
Remarks:										
soil moist but not saturated										

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

Project/Site: Fraiz	Project/Site: Fraiz						City/County: Teton					
Applicant/Owner:	Brian Fraiz	Z						ID	Sampling Poin	it:	3	
Investigator(s): EV			Section,	Range:	NE4NE							
Landform (hillside, te	Local relief (concave, convex, none):					Slope (%):						
Subregion (LRR):	LRR E, MI	_RA 43B	Lat:	43°38'58.22"N		Long:	111° 9'	40.96"W		Datum	ו: <u>א</u>	√GS84
Soil Map Unit Name	: Furniss-Bo	oquet com	nplex					N	IWI classifi	cation: PEM		
Are climatic / hydrolo	ogic conditio	ons on the	e site ty	pical for this time	e of year?	Yes X	No)	(If no, exp	lain in Remarks.)	
Are Vegetation	, Soil	, or Hyd	Irology	significantl	ly disturbed?	Are "Norma	al Circun	nstances'	" present?	Yes X	No _	
Are Vegetation	, Soil	, or Hyd	Irology	naturally p	roblematic?	(If needed,	explain	any answ	vers in Ren	narks.)		
SUMMARY OF	FINDING	S – Atta	ich s	ite map show	ing sampli	ng point	locatio	ons, tra	insects.	important fe	atur	es, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	Is the Sampled Area within a Wetland?	Yes	No	x
Remarks:							

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2		·		Are OBL, FACW, or FAC: <u>2</u> (A)
3.		·		Total Number of Dominant Species
4				Across All Strata: <u>2</u> (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1				
2.				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species 35 x 2 = 70
		=Total Cover		FAC species 61 x 3 = 183
Herb Stratum (Plot size: 5' x 5')				FACU species <u>12</u> x 4 = <u>48</u>
1. Carex nebrascensis	5	No	FACW	UPL species 0 x 5 = 0
2. Iris missouriensis	30	Yes	FACW	Column Totals: 108 (A) 301 (B)
3. Aster laevis	1	No	FACU	Prevalence Index = B/A = 2.79
4. Achillea millefolium	10	No	FACU	
5. Potentilla pulcherrima	1	No	FAC	Hydrophytic Vegetation Indicators:
6. Taraxacum officinale	1	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
7. Fac Grasses	60	Yes	FAC	X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
9.				4 - Morphological Adaptations ¹ (Provide supporting
10.				data in Remarks or on a separate sheet)
11.				5 - Wetland Non-Vacular Plants ¹
	108	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

Profile Desci	ription: (Describe	to the depth	needed to docu	iment th	ne indica	tor or c	confirm the absence of indicators.)	
Depth	Matrix		Redo	x Featur	res			
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture Ren	narks
0-4	10YR 3/3	100						
4-10	10YR 3/1	100						
10-16	10YR 4/2	100						
¹ Type: C=Co	ncentration, D=Depl	letion, RM=Re	educed Matrix, C	S=Cove	ered or Co	pated Sa	and Grains. ² Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all LRF	Rs, unless othe	rwise n	oted.)		Indicators for Problematic	Hydric Soils ³ :
Histosol ((A1)		Sandy Red	lox (S5)			2 cm Muck (A10)	
Histic Epi	pedon (A2)		Stripped M	atrix (S6	5)		Red Parent Material (F2	1)
Black His	tic (A3)		Loamy Mu	cky Mine	eral (F1) (except	MLRA 1) Very Shallow Dark Surfa	ce (F22)
Hydroger	n Sulfide (A4)		Loamy Gle	yed Mat	trix (F2)		Other (Explain in Remar	ks)
Depleted	Below Dark Surface	∍ (A11)	X Depleted M	/latrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)			
Sandy Mu	ucky Mineral (S1)		Depleted D	ark Sur	face (F7)		³ Indicators of hydrophytic veg	getation and
2.5 cm M	ucky Peat or Peat (S2) (LRR G)	Redox Dep	ression	s (F8)		wetland hydrology must	be present,
Sandy Gl	eyed Matrix (S4)						unless disturbed or prob	ematic.
Restrictive L	ayer (if observed):							
Туре:			_					
Depth (in	ches):		_				Hydric Soil Present? Yes	<u>X</u> No
Remarks:								

HYDROLOGY

Wetland Hydrology Indicate	ors:									
Primary Indicators (minimum	n of one is required	; che	ck all th	at apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)			Water-8	Stained Leaves (B9) (except		Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)			MLF	RA 1, 2, 4A, and 4B)		4A, and 4B)				
Saturation (A3)			Salt Cru	ust (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatic	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 Ro	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)	X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6))		Stunted	l or Stressed Plants (D1) (LR	Raised Ant Mounds (D6) (LRR A)					
Inundation Visible on Ae	rial Imagery (B7)		Other (I	Explain in Remarks)		Frost-Heave Hummocks (D7)				
Sparsely Vegetated Con	cave 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	d Hydrology Present? Yes No X				
(includes capillary fringe)		-								
Describe Recorded Data (str	eam gauge, monit	oring	well, ae	erial photos, previous inspecti	ons), if ava	ilable:				
Remarks:										
no soil moisture within samp	le point									

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

Project/Site: Fraiz	Project/Site: Fraiz						City/County: Teton					
Applicant/Owner:	Brian Fraiz					State:ID				Samplir	ng Point:	4
Investigator(s): EV			Section, Township, Range: <u>NE4NE4 SEC 29</u>					74N R45E				
Landform (hillside, te	Local relief (concave, convex, none):						e (%):					
Subregion (LRR):	LRR E, ML	RA 43B	Lat:	43°38'57.48"N		Long:	111° 9'	42.80"W			Datum:	WGS84
Soil Map Unit Name	Furniss-Bo	quet com	plex					N	IWI classi	fication: P	EM	
Are climatic / hydrolo	ogic conditio	ns on the	site ty	pical for this time	of year?	Yes X	No		(If no, exp	plain in Re	marks.)	
Are Vegetation	, Soil	, or Hydr	ology	significantl	y disturbed?	Are "Norma	al Circum	nstances'	' present?	Yes	X No)
Are Vegetation	, Soil	, or Hydr	ology	naturally p	roblematic?	(If needed,	explain	any answ	ers in Re	marks.)		
		• • • •				• •						

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator		-
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	
1				Number of Dominant Species That	
2				Are OBL, FACW, or FAC: 1 (A))
3				Total Number of Dominant Species	
4				Across All Strata: 1 (B))
		=Total Cover		Percent of Dominant Species That	
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or FAC: 100.0% (A/	′B)
1					
2				Prevalence Index worksheet:	
3.				Total % Cover of: Multiply by:	
4.				OBL species 0 x 1 = 0	
5.				FACW species 100 x 2 = 200	
		=Total Cover		FAC species 0 x 3 = 0	
Herb Stratum (Plot size: 5' x 5')				FACU species 0 x 4 = 0	
1. Carex nebrascensis	100	Yes	FACW	UPL species $0 \times 5 = 0$	
2.				Column Totals: 100 (A) 200 (B))
3.				Prevalence Index = $B/A = 2.00$	
4.					
5.				Hydrophytic Vegetation Indicators:	_
6				1 - Rapid Test for Hydrophytic Vegetation	
7				X 2 - Dominance Test is >50%	
8				$\frac{1}{2}$ 2 - Definition of the test is $(30)^{1}$	
9				4 - Morphological Adaptations ¹ (Provide supporti	na
10				data in Remarks or on a separate sheet)	ng
11		. <u></u>		5 - Wetland Non-Vacular Plants ¹	
···-	100	-Total Covor		Broblomatic Hydrophytic Vogotation ¹ (Explain)	
Woody Vine Stratum (Plot size:) 100				
1.)			Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	t
2.					_
		=Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Present? Yes X No	
Remarks:				•	

SOIL

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Depth	Matrix		Redo	x Featur	es				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-2	10YR 3/3	100					peat		
2-14	10YR 2/2	100					Loamy/Clayey		
14-18	10YR 4/1	100					Mucky Loam/Clay		
		·							
Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, 0	CS=Cove	red or Co	ated Sa	and Grains. ² Loc	ation: PL=Pore	Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless othe	erwise n	oted.)		Indicato	ors for Problema	tic Hydric Soils ³
Histosol	(A1)		Sandy Re	dox (S5)			2 cr	n Muck (A10)	
Histic Ep	oipedon (A2)		Stripped N	latrix (S6	5)		Red	Parent Material	(F21)
Black Hi	istic (A3)		Loamy Mu	icky Mine	eral (F1) (except	MLRA 1) Ven	/ Shallow Dark S	urface (F22)
Hydroge	en Sulfide (A4)		Loamy Gle	eyed Mat	rix (F2)		Othe	er (Explain in Rer	narks)
Depleted	d Below Dark Surface	e (A11)	X Depleted I	Matrix (F	3)				
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	e (F6)				
Sandy M	lucky Mineral (S1)		Depleted I	Dark Surf	face (F7)		³ Indicato	ors of hydrophytic	vegetation and
2.5 cm M	Mucky Peat or Peat (S2) (LRR G	B) Redox De	pressions	s (F8)		wetl	and hydrology m	ust be present,
Sandy G	Bleyed Matrix (S4)				. /		unle	ss disturbed or p	roblematic.
Restrictive	Layer (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Preser	nt?	Yes <u>X</u> No
Remarks:									

Wetland Hydrology Indica	tors:					
Primary Indicators (minimum of one is required; check all that apply)						Secondary Indicators (2 or more required)
Surface Water (A1)	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)
X Saturation (A3)				Salt C	rust (B11)	Drainage Patterns (B10)
Water Marks (B1)				Aquat	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)				Prese	nce of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)				Recer	nt Iron Reduction in Tilled Soils	(C6) X FAC-Neutral Test (D5)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A)					R A) Raised Ant Mounds (D6) (LRR A)	
Inundation Visible on A	Inundation Visible on Aerial Imagery (B7)			Other	(Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Cor	ncave S	urface (B8))			
Field Observations:						
Surface Water Present?	Yes		No	Х	Depth (inches):	
Water Table Present?	Yes		No	Х	Depth (inches):	
Saturation Present?	Yes	Х	No		Depth (inches): 14	Wetland Hydrology Present? Yes X No
(includes capillary fringe)						
Describe Recorded Data (st	ream ga	luge, moni	toring	well, a	aerial photos, previous inspecti	ons), if available:
Remarks:						

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

Project/Site: Fraiz					City/Co	ounty: Teto	'n			Sampling D	ate:	8/4/22
Applicant/Owner:	Brian Fraiz	2						State:	ID	Sampling P	oint:	5
Investigator(s): EV					Section	, Township,	Range:	NE4NE4	4 SEC 29	T4N R45E		
Landform (hillside, te	errace, etc.):				Local relief	(concave, c	onvex, no	one):			Slop	e (%):
Subregion (LRR):	LRR E, ML	RA 43B	Lat:	43°38'53.59"N		Long:	111° 9'	42.26"W		Dat	um:	WGS84
Soil Map Unit Name:	Furniss-Bo	quet com	olex					N	WI classif	fication: PEM		
Are climatic / hydrolo	ogic conditio	ns on the	site ty	pical for this time	e of year?	Yes X	No		(If no, exp	olain in Remar	ks.)	
Are Vegetation	, Soil	, or Hydr	ology	significantl	ly disturbed?	Are "Norm	al Circun	nstances"	present?	Yes X	No	
Are Vegetation	, Soil	, or Hydr	ology	naturally p	roblematic?	(If needed	, explain	any answ	ers in Rer	marks.)		
						. .						

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata: 1 (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or FAC:100.0% (A/E
1				
2.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4.				OBL species 0 x 1 = 0
5.				FACW species 3 x 2 = 6
		=Total Cover		FAC species 85 x 3 = 255
Herb Stratum (Plot size: 5' x 5')				FACU species 10 x 4 = 40
1. Carex nebrascensis	3	No	FACW	UPL species 0 x 5 = 0
2. Achillea millefolium	5	No	FACU	Column Totals: 98 (A) 301 (B)
3 Aster laevis	5	No	FACU	Prevalence Index = $B/A = 3.07$
4 Taraxacum	10	No	FAC	
5 Fac Grasses	75	Yes	FAC	Hydrophytic Vegetation Indicators:
6		100	17.0	1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				$\frac{1}{2}$ = Dominance restriction $\frac{1}{2}$
0				4. Morphological Adaptations ¹ /Provide supportin
9 10		·		data in Remarks or on a separate sheet)
11				5 Wetland Nan Vacular Planta ¹
11. <u></u>				5 - Weilahu Non-Vacular Flants
Mandu Mine Christian (Distaire)	, <u> </u>	- Total Cover		
1. (Plot size:	_)			'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.				
		=Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Present? Yes No X
Remarks:				•

SOIL

Profile Desc	cription: (Describe to	o the dept	n needed to docu	iment the	indica	tor or c	onfirm the	absence of inc	licators.)	
Depth	Matrix		Redo	x Features	ز 1	. 2				
(inches)	Color (moist)	%	Color (moist)	%	Туре'	Loc	Tex	ture	Remarks	
0-6	10YR 2/1	100					Loamy/	/Clayey		
6-9	10YR 3/1	100		<u> </u>			Loamy	/Clayey		
9-12	10YR 5/1	100					Mucky Lo	bam/Clay		
	<u> </u>									
				<u> </u>						
¹ Type: C=C	concentration, D=Deple	etion, RM=	Reduced Matrix, C	S=Covere	ed or Co	bated Sa	and Grains.	² Location:	PL=Pore Lining	, M=Matrix.
Hydric Soil	Indicators: (Applicat	ble to all L	RRs, unless othe	rwise not	.ed.)			Indicators for	Problematic Hy	ydric Soils ³ :
Histosol (A1)Sandy R				lox (S5)				2 cm Muck (A10)		
Histic Epipedon (A2) Stripped Matrix (S6)								Red Pare	nt Material (F21)	
Black Histic (A3) Loamy Mucky Mineral (F1) (ex				except	MLRA 1)	Very Shal	low Dark Surface	∍ (F22)		
Hydroge	ən Sulfide (A4)		Loamy Gle	yed Matrix	к (F2)			Other (Ex	plain in Remarks	.)
Deplete	d Below Dark Surface	(A11)	X Depleted N	/atrix (F3)	t.					
Thick D	ark Surface (A12)		Redox Dar	k Surface	(F6)					
Sandy N	Mucky Mineral (S1)		Depleted [Jark Surfa	ce (F7)			³ Indicators of I	hydrophytic vege	tation and
2.5 cm l	Mucky Peat or Peat (S	52) (LRR G) Redox Dep	pressions ((F8)			wetland h	ydrology must be	e present,
Sandy (Gleyed Matrix (S4)	, .	·					unless dis	turbed or probler	matic.
Restrictive	Layer (if observed):									
Type:	-									
Depth (i	inches):						Hydric Se	oil Present?	Yes_	X No
Remarks:						L				
soil structure	e granular									
	0									
HYDROLC	JGY									
Wetland Hy	drology Indicators:									
Primary Indi	icators (minimum of or	ne is require	ed: check all that ;	ylade)				Secondary Inc	dicators (2 or mor	re required)
Surface	Water (A1)	· · · ·	Water-Sta	ned Leave	es (B9)	(except		Water-Sta	ained Leaves (B9) (MLRA 1, 2
High W;	ater Table (A2)		MIRA	1 2 1 4 3	(4D)	•				
				1, 2 , 4 7 , a.	'na 4D)			4A, an	u 4D)	

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)	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) 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) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LR	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 No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspectio	ns), if available:
Remarks:		

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

Project/Site: Fraiz				City/County:	Teton			Sampling Date:	8/4/22
Applicant/Owner:	Brian Fraiz					State:	ID	Sampling Point:	6
Investigator(s): EV				Section, Towns	hip, Range	: NE4NE	4 SEC 29	9 T4N R45E	
Landform (hillside, te	errace, etc.):			Local relief (concav	e, convex,	none):		Slo	pe (%):
Subregion (LRR):	LRR E, MLRA 43	B Lat:	43°38'53.22"N	L	ong: <u>111°</u>	9'55.38"W		Datum:	WGS84
Soil Map Unit Name	Furniss-Boquet c	omplex				<u> </u>	WI class	ification: PEM	
Are climatic / hydrolo	ogic conditions on	he site t	ypical for this time	e of year? Yes	1 <u>X</u>	No	(If no, ex	plain in Remarks.)	
Are Vegetation	_, Soil, or ⊦	ydrology	/significant	ly disturbed? Are "N	ormal Circ	umstances	" present	? Yes <u>X</u> N	0
Are Vegetation	_, Soil, or ⊦	ydrology	/naturally p	roblematic? (If nee	ded, explai	n any ansv	vers in Re	emarks.)	
					• • • •	•			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

ent? Yes No X

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:) % Cover Species? Status Dominance Test worksheet: 1.		Absolute	Dominant	Indicator	
1.	Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
2. Are OBL, FACW, or FAC: 2 (A) 3.	1				Number of Dominant Species That
3.	2				Are OBL, FACW, or FAC: <u>2</u> (A)
4.	3				Total Number of Dominant Species
Sapling/Shrub Stratum (Plot size:) 1.	4				Across All Strata: 2 (B)
Sapling/Shrub Stratum (Plot size:) 1.			=Total Cover		Percent of Dominant Species That
1.	Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or FAC: 100.0% (A/E
2.	1				
3.	2				Prevalence Index worksheet:
4.	3				Total % Cover of: Multiply by:
5.	4				OBL species 0 x 1 = 0
Herb Stratum (Plot size: 5'x 5') FAC species 55 x 3 = 165 1. Carex nebrascensis 5 No FACW UPL species 10 x 4 = 40 2. Aster laevis 5 No FACW UPL species 1 x 5 = 5 2. Aster laevis 5 No FACU UPL species 1 x 5 = 5 2. Aster laevis 5 No FACU UPL species 1 x 5 = 5 2. Aster laevis 5 No FACU UPL species 1 x 5 = 5 2. Carduus nutans 1 No UPL Prevalence Index = B/A = 2.91 1 4. Taraxacum officinale 5 No FACW 1 Rapid Test for Hydrophytic Vegetation 5. Grasses 40 Yes FAC X 2 - Dominance Test is >50% X 2 - Dominance Test is <50%	5				FACW species 20 x 2 = 40
Herb Stratum (Plot size: 5'x 5') 1. Carex nebrascensis 5 No FACW UPL species 1 x 5 = 5 2. Aster laevis 5 No FACU UPL species 1 x 5 = 5 3. Carduus nutans 1 No UPL Prevalence Index = B/A = 2.91 4. Taraxacum officinale 5 No FAC Hydrophytic Vegetation Indicators: 5. Cirsium arvense 10 No FAC 1 Reprivation and the stratum 7. Fac grasses 40 Yes FAC X 2 - Dominance Test is >50% 8. Achillea millefolium 5 No FACU 3 - Prevalence Index is 43.0 ¹ 9.			=Total Cover		FAC species 55 x 3 = 165
1. Carex nebrascensis 5 No FACW UPL species 1 x 5 = 5 2. Aster laevis 5 No FACU Column Totals: 86 (A) 250 (B) 3. Carduus nutans 1 No UPL Prevalence Index = B/A = 2.91 4. Taraxacum officinale 5 No FAC Hydrophytic Vegetation Indicators: 6. Juncus balticus 15 Yes FACW 1 - Rapid Test for Hydrophytic Vegetation 7. Fac grasses 40 Yes FAC X 2 - Dominance Test is >50% 8. Achillea millefolium 5 No FACU 3 - Prevalence Index is <3.01	Herb Stratum (Plot size: 5' x 5')				FACU species 10 x 4 = 40
2. Aster laevis 5 No FACU Column Totals: 86 (A) 250 (B) 3. Carduus nutans 1 No UPL Prevalence Index = B/A = 2.91 4. Taraxacum officinale 5 No FAC Hydrophytic Vegetation Indicators: 6. Juncus balticus 15 Yes FAC 1 Regrasses 40 Yes FAC 1 Remarks: 9.	1. Carex nebrascensis	5	No	FACW	UPL species 1 x 5 = 5
3. Carduus nutans 1 No UPL Prevalence Index = B/A =2.91 4. Taraxacum officinale 5 No FAC 5. Cirsium arvense 10 No FAC 6. Juncus balticus 15 Yes FACW 7. Fac grasses 40 Yes FAC 8. Achillea millefolium 5 No FACU 9.	2. Aster laevis	5	No	FACU	Column Totals: 86 (A) 250 (B)
4. Taraxacum officinale 5 No FAC 5. Cirsium arvense 10 No FAC 6. Juncus balticus 15 Yes FACW 7. Fac grasses 40 Yes FAC 8. Achillea millefolium 5 No FACU 9.	3. Carduus nutans	1	No	UPL	Prevalence Index = B/A = 2.91
5. Cirsium arvense 10 No FAC Hydrophytic Vegetation Indicators: 6. Juncus balticus 15 Yes FACW 1 - Rapid Test for Hydrophytic Vegetation 7. Fac grasses 40 Yes FAC X 2 - Dominance Test is >50% 8. Achillea millefolium 5 No FACU 3 - Prevalence Index is ≤3.0 ¹ 9.	4. Taraxacum officinale	5	No	FAC	
6. Juncus balticus 15 Yes FACW 1 - Rapid Test for Hydrophytic Vegetation 7. Fac grasses 40 Yes FAC X 2 - Dominance Test is >50% 8. Achillea millefolium 5 No FACU 3 - Prevalence Index is ≤3.01 9.	5. Cirsium arvense	10	No	FAC	Hydrophytic Vegetation Indicators:
7. Fac grasses 40 Yes FAC X 2 - Dominance Test is >50% 8. Achillea millefolium 5 No FACU 3 - Prevalence Index is ≤3.0 ¹ 9.	6. Juncus balticus	15	Yes	FACW	1 - Rapid Test for Hydrophytic Vegetation
8. Achillea millefolium 5 No FACU 3 - Prevalence Index is ≤3.0 ¹ 9.	7. Fac grasses	40	Yes	FAC	X 2 - Dominance Test is >50%
9.	8. Achillea millefolium	5	No	FACU	3 - Prevalence Index is ≤3.0 ¹
10. data in Remarks or on a separate sheet) 11. 86 =Total Cover 5 - Wetland Non-Vacular Plants ¹ Woody Vine Stratum (Plot size:) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2.	9.				4 - Morphological Adaptations ¹ (Provide supportin
11.	10.				data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:) 1.	11.				5 - Wetland Non-Vacular Plants ¹
Woody Vine Stratum (Plot size:) 1.		86	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
1.	Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil and wetland hydrology must
2	1.				be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum	2.				Hydrophytic
% Bare Ground in Herb Stratum Present? Yes X No Remarks: Remarks: No No			=Total Cover		Vegetation
Remarks:	% Bare Ground in Herb Stratum				Present? Yes X No
	Remarks:				•

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docu	ument ti	he indica	tor or c	confirm the absence of indicators.)				
(inches)	Color (moist)	%	Color (moist)	x realui	Tvne ¹	loc^2	- Texture Remarks				
0-2	10VR 3/2	100		70	1990		Texture				
2 12	1011C 3/2	100									
2-12	10YR 2/1	100									
12-16	10YR 3/1	100									
		letion RM-R	Peduced Matrix (-Cove	ared or C		Sand Grains ² Location: PL-Pore Lining M-Matrix				
Hydric Soil I	ndicators: (Applica	ble to all I F	Rs. unless othe	rwise n	oted.)	Jaleu O	Indicators for Problematic Hydric Soils ³ .				
Histosol	(A1)		Sandy Red	dox (S5)	otea.)		2 cm Muck (A10)				
Histic Ep	ipedon (A2)		Stripped M	latrix (S	6)		Red Parent Material (F21)				
Black His	tic (A3)		Loamy Mu	cky Min	, eral (F1)	(except	t MLRA 1) Very Shallow Dark Surface (F22)				
Hydroger	n Sulfide (A4)		Loamy Gle	eyed Ma	trix (F2)	Other (Explain in Remarks)					
Depleted	Below Dark Surface	e (A11)	X Depleted M	X Depleted Matrix (F3)							
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)						
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)		³ Indicators of hydrophytic vegetation and				
2.5 cm M	lucky Peat or Peat (S2) (LRR G)	Redox Dep	oression	s (F8)		wetland hydrology must be present,				
Sandy G	eyed Matrix (S4)						unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Present? Yes X No				
Remarks:											

HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n 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)				
Saturation (A3)		Salt Crust (B11)				Drainage Patterns (B10)				
Water Marks (B1)			Aquatio	c Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydrog	en Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Oxidized Rhizospheres on Living Roots (C3)				Geomorphic Position (D2)				
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)				Shallow Aquitard (D3)				
Iron Deposits (B5)			Recent	t Iron Reduction in Tilled Soils	s (C6)	X 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)	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 X Depth (inches):								
Saturation Present?	Yes	No X Depth (inches): Wetla			Wetland	nd Hydrology Present? Yes No X				
(includes capillary fringe)										
Describe Recorded Data (st	ream gauge, monit	oring	well, a	erial photos, previous inspecti	ions), if ava	ilable:				
Remarks:										

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

Project/Site: Fraiz	City/County:	Teton	Sampling Date:	8/4/22					
Applicant/Owner:	Brian Fraiz					State:	ID	Sampling Point:	7
Investigator(s): EV			Section, Township, Range: NE4NE4 SEC 2				T4N R45E		
Landform (hillside, te	Local relief (concave, convex, none):				Slope (%):				
Subregion (LRR):	bregion (LRR): LRR E, MLRA 43B Lat: 43°38'53.22"N Long: 111°							Datum:	WGS84
Soil Map Unit Name	Furniss-Boquet co	omplex				<u> </u>	WI class	ification: PEM	
Are climatic / hydrolo	ogic conditions on t	he site t	ypical for this time	e of year? Yes	Х	No	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil, or H	ydrology	/significant	ly disturbed? Are "N	ormal Ci	cumstances	" present?	? Yes <u>X</u> N	0
Are Vegetation	, Soil, or H	ydrology	/naturally p	roblematic? (If nee	ded, expl	ain any ansv	vers in Re	emarks.)	
								• • • •	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No X	Is the Sampled Area within a Wetland?	Yes	NoX
Remarks:						

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata: 1 (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, or FAC:(A/B)
1				
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species 1 x 2 = 2
		=Total Cover		FAC species 105 x 3 = 315
Herb Stratum (Plot size: 5' x 5')				FACU species 0 x 4 = 0
1. Carex nebrascensis	1	No	FACW	UPL species 0 x 5 = 0
2. Agrostis stolonifera	5	No	FAC	Column Totals: 106 (A) 317 (B)
3. Potentilla pulcherrima	5	No	FAC	Prevalence Index = B/A = 2.99
4. Phleum pratense	85	Yes	FAC	
5. Cirsium arvense	10	No	FAC	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
9.				 4 - Morphological Adaptations¹ (Provide supporting
10.				data in Remarks or on a separate sheet)
11.				5 - Wetland Non-Vacular Plants ¹
	106	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

Profile Desc	ription: (Describe	to the dept	h needed to docu	ument tl	ne indica	tor or c	onfirm the absence	of indicators.)			
Depth	Matrix	Redo	x Featur	es							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks		
0-4	10YR 2/2	100									
4-8	10YR 2/1	100									
8-16	10YR 5/1	100									
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, C	S=Cove	ered or Co	pated Sa	nd Grains. ² Loc	ation: PL=Pore L	ining, M=	Matrix.	
Hydric Soil I	ndicators: (Applica	ble to all L	RRs, unless othe	erwise n	oted.)		Indicato	rs for Problemat	ic Hydric	Soils ³ :	
Histosol	(A1)		Sandy Red	dox (S5)			2 cm	n Muck (A10)			
Histic Ep	ipedon (A2)		Stripped N	latrix (Se	6)		Red Parent Material (F21)				
Black His	stic (A3)		Loamy Mu	cky Min	eral (F1)	(except	t MLRA 1) Very Shallow Dark Surface (F22)				
Hydroge	n Sulfide (A4)		Loamy Gle	eyed Ma	trix (F2)		Other (Explain in Remarks)				
Depleted	Below Dark Surface	e (A11)	X Depleted	Aatrix (F	3)						
Thick Da	rk Surface (A12)		Redox Da	k Surfac	ce (F6)						
Sandy M	lucky Mineral (S1)		Depleted [Dark Sur	face (F7)		³ Indicators of hydrophytic vegetation and				
2.5 cm M	lucky Peat or Peat (S2) (LRR G	Redox De	oression	s (F8)		wetla	and hydrology mu	st be pres	sent,	
Sandy G	leyed Matrix (S4)		· ·		. ,		unle	ss disturbed or pr	oblematic		
Restrictive L	ayer (if observed):										
Type:											
Depth (ir	nches):		_				Hydric Soil Presen	t? Y	es_X	No	
Remarks:											

HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n 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)				
Saturation (A3)		Salt Crust (B11)				Drainage Patterns (B10)				
Water Marks (B1)			Aquatio	c Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydrog	en Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Oxidized Rhizospheres on Living Roots (C3)				Geomorphic Position (D2)				
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)				Shallow Aquitard (D3)				
Iron Deposits (B5)			Recent	t Iron Reduction in Tilled Soils	s (C6)	X 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)	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 X Depth (inches):								
Saturation Present?	Yes	No X Depth (inches): Wetla			Wetland	nd Hydrology Present? Yes No X				
(includes capillary fringe)										
Describe Recorded Data (st	ream gauge, monit	oring	well, a	erial photos, previous inspecti	ions), if ava	ilable:				
Remarks:										