

OCTOBER 6, 2022

FRAIZ PROPERTY

AQUATIC RESOURCE INVENTORY

PREPARED BY:

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PREPARED FOR:

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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:

- Avoid or minimize impacts to aquatic resources when evaluating development options.
- 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

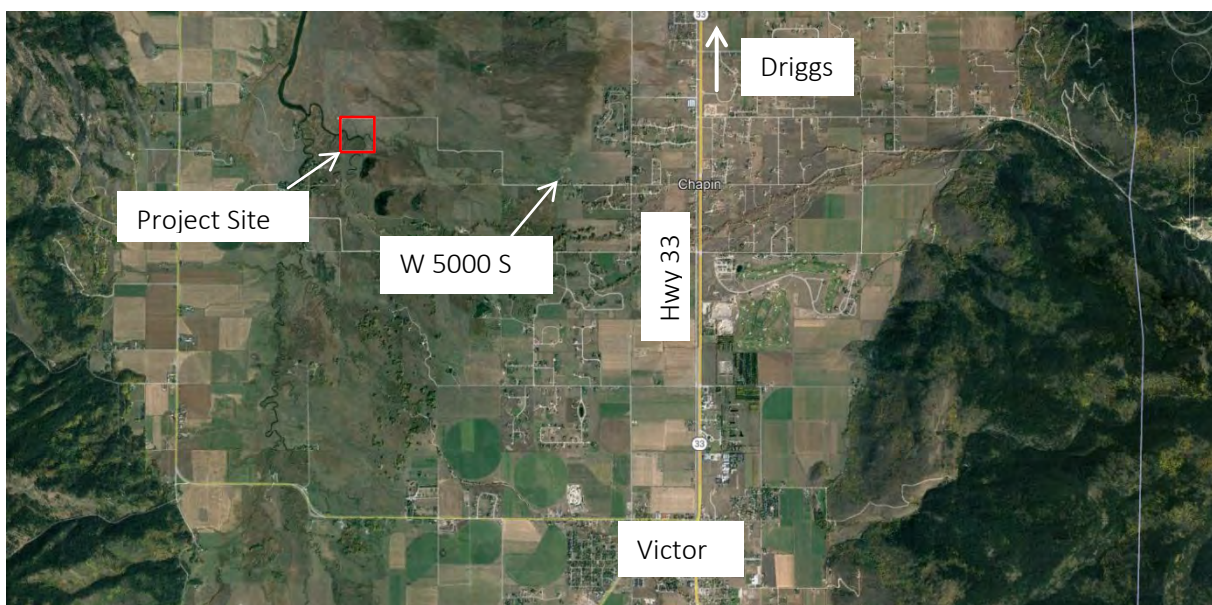
Agent:

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)
- ❑ 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

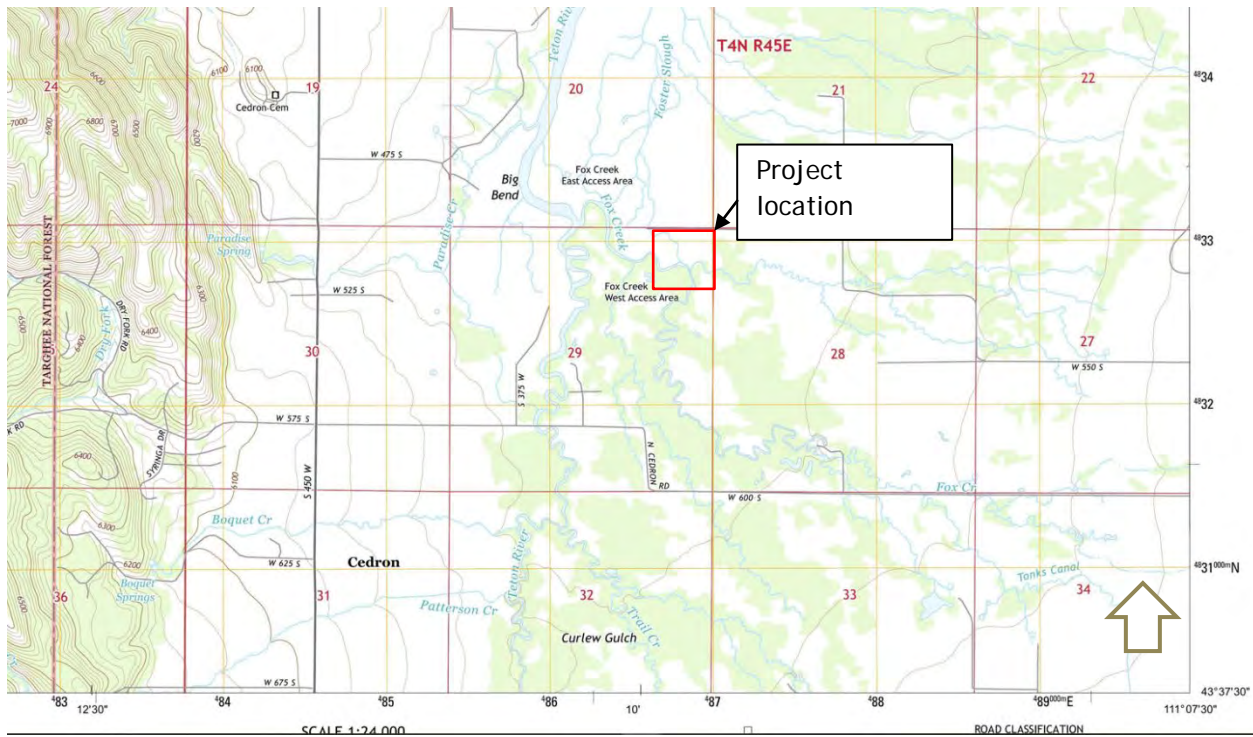


Figure 3. 1992 USGS Topo of Area of Interest

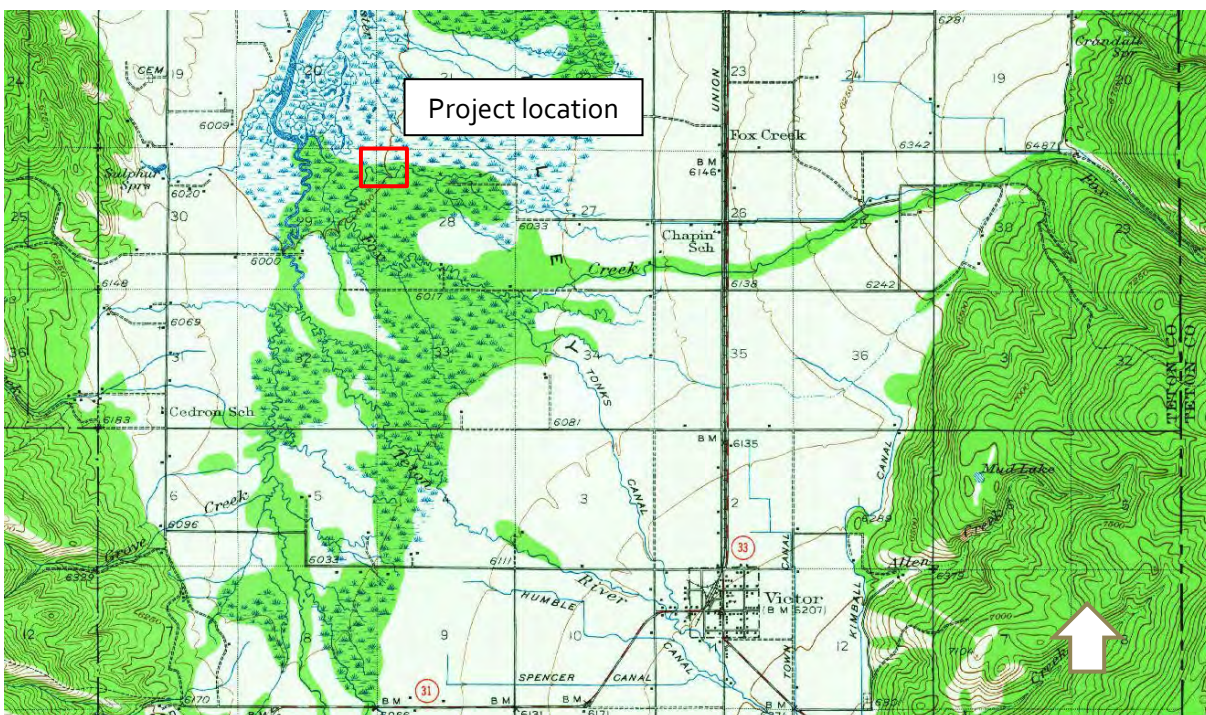


Figure 4. 2019 NAIP Aerial Image

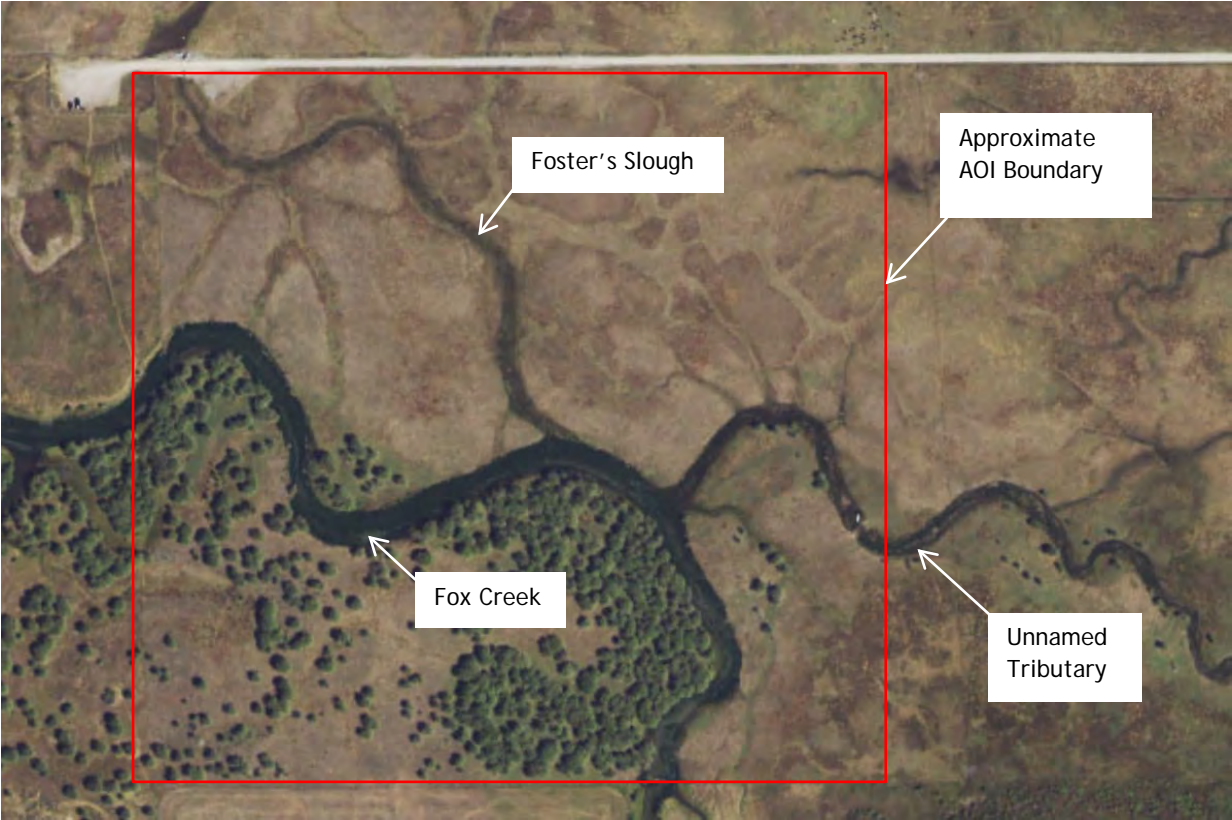


Figure 5 Google earth image aerial June 2017



Figure 6 Google earth image aerial July 2016



Figure 7. Google earth image aerial June 2009

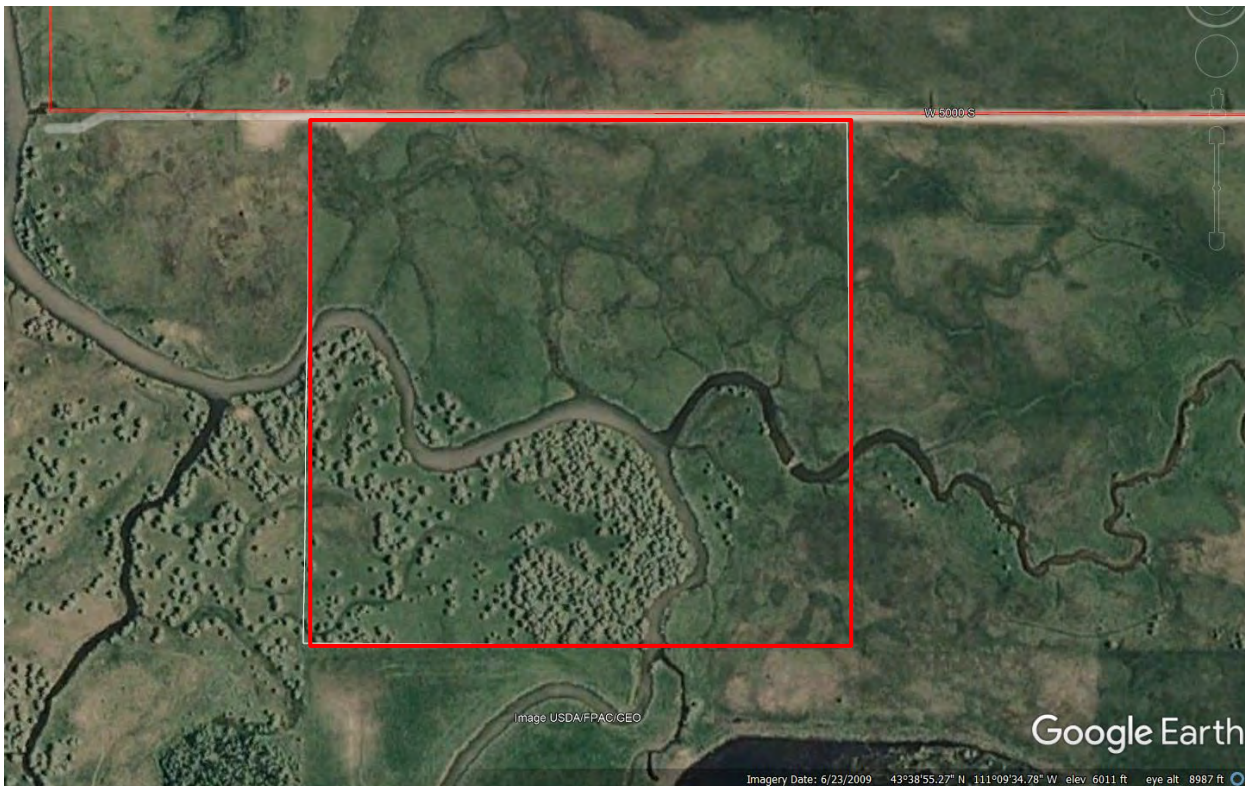


Figure 8 Google earth image aerial July 1999



Figure 9 Google earth image aerial June 1992



Figure 10 NWI Map of Area of Interest

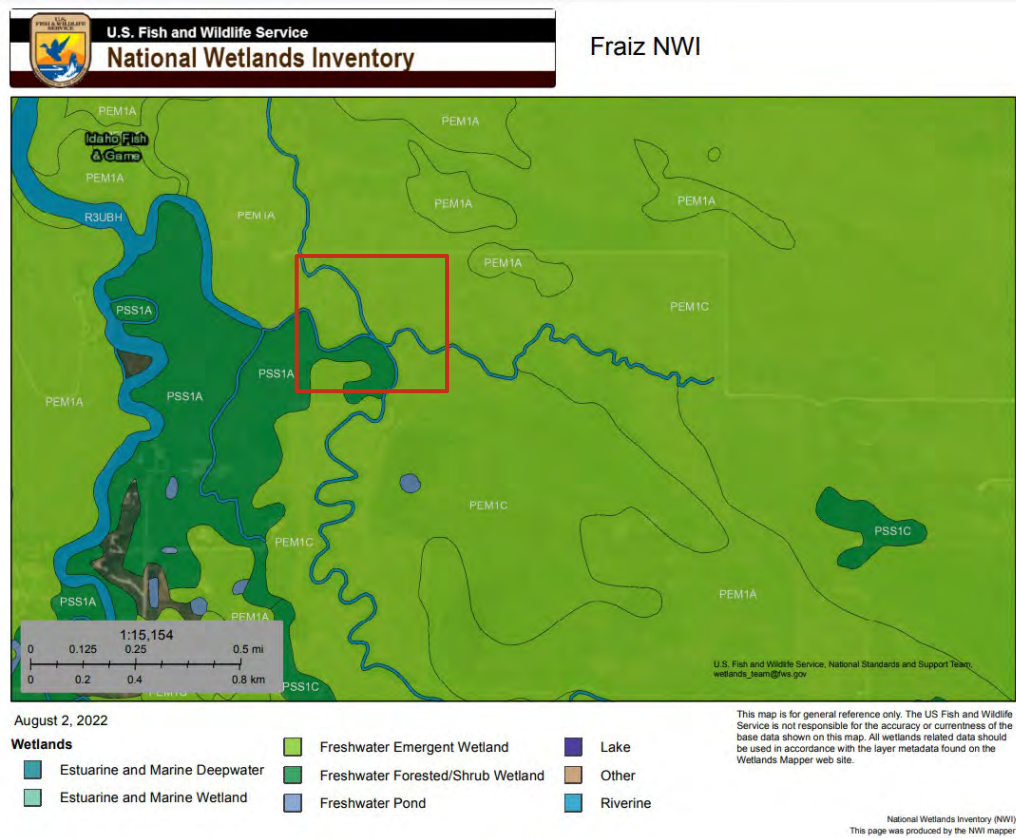


Figure 11 USGS National Hydrography Map of Project Location

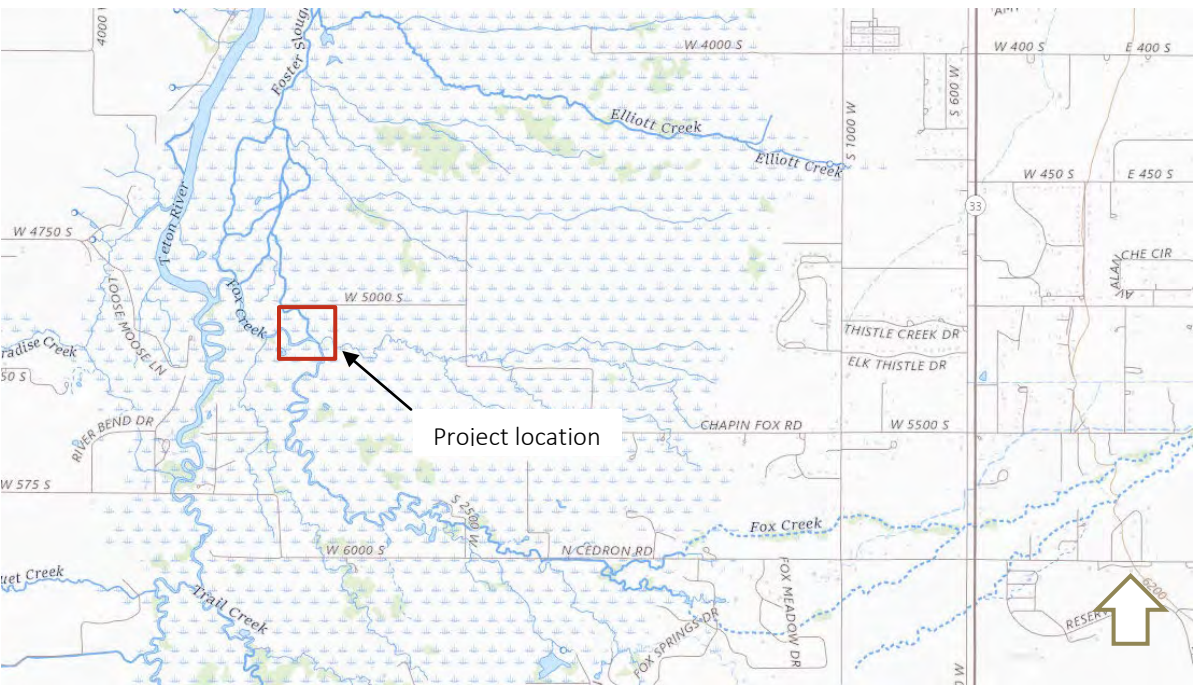
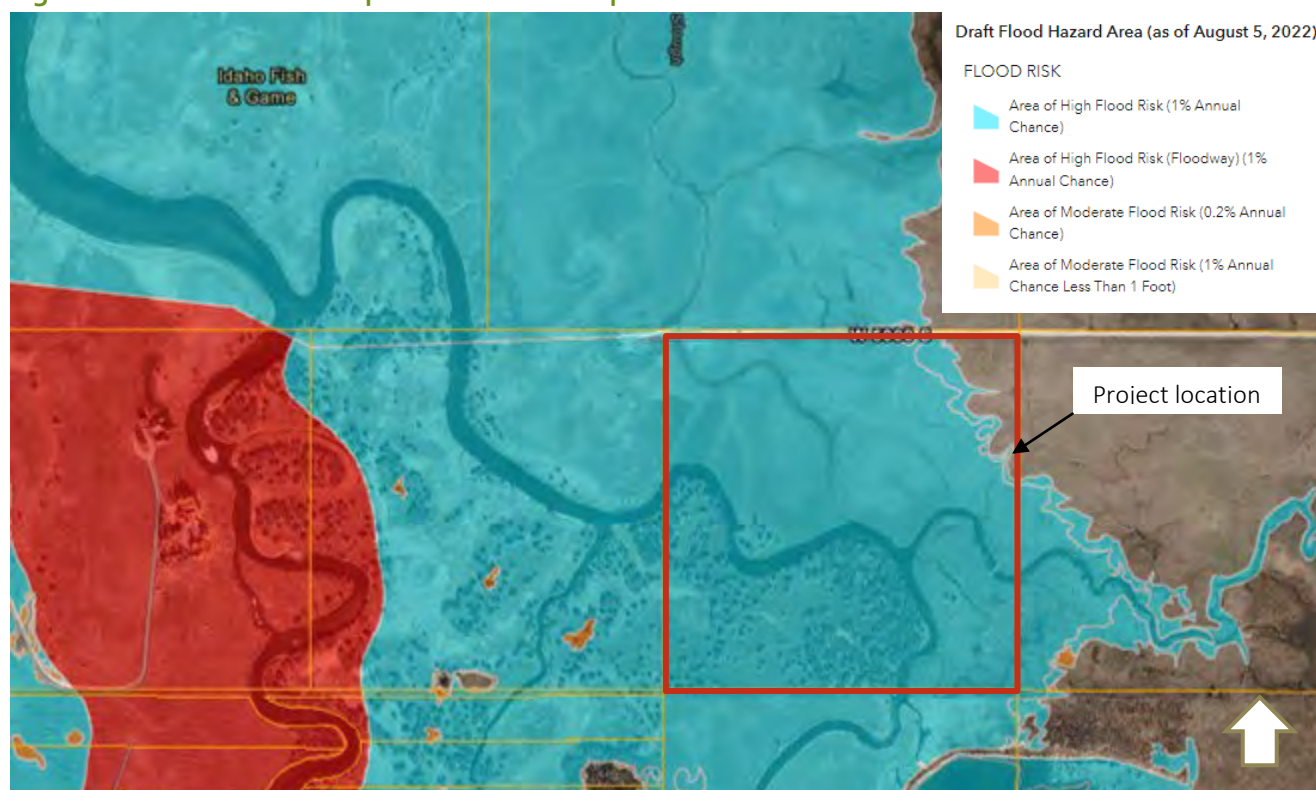


Figure 12. Draft FEMA Floodplain Flood Risk Map



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.

Table 1. Aquatic Resources within the Area of Interest

Aquatic Resource Name	Aquatic Resource Type	Cowardin Classification	Location (WGS84)	Area (acres)	Linear Feet
W1	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
W3	Wetland	PSS	43°38'50.80"N, 111° 9'54.31"W	8.7	n/a
C1	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

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

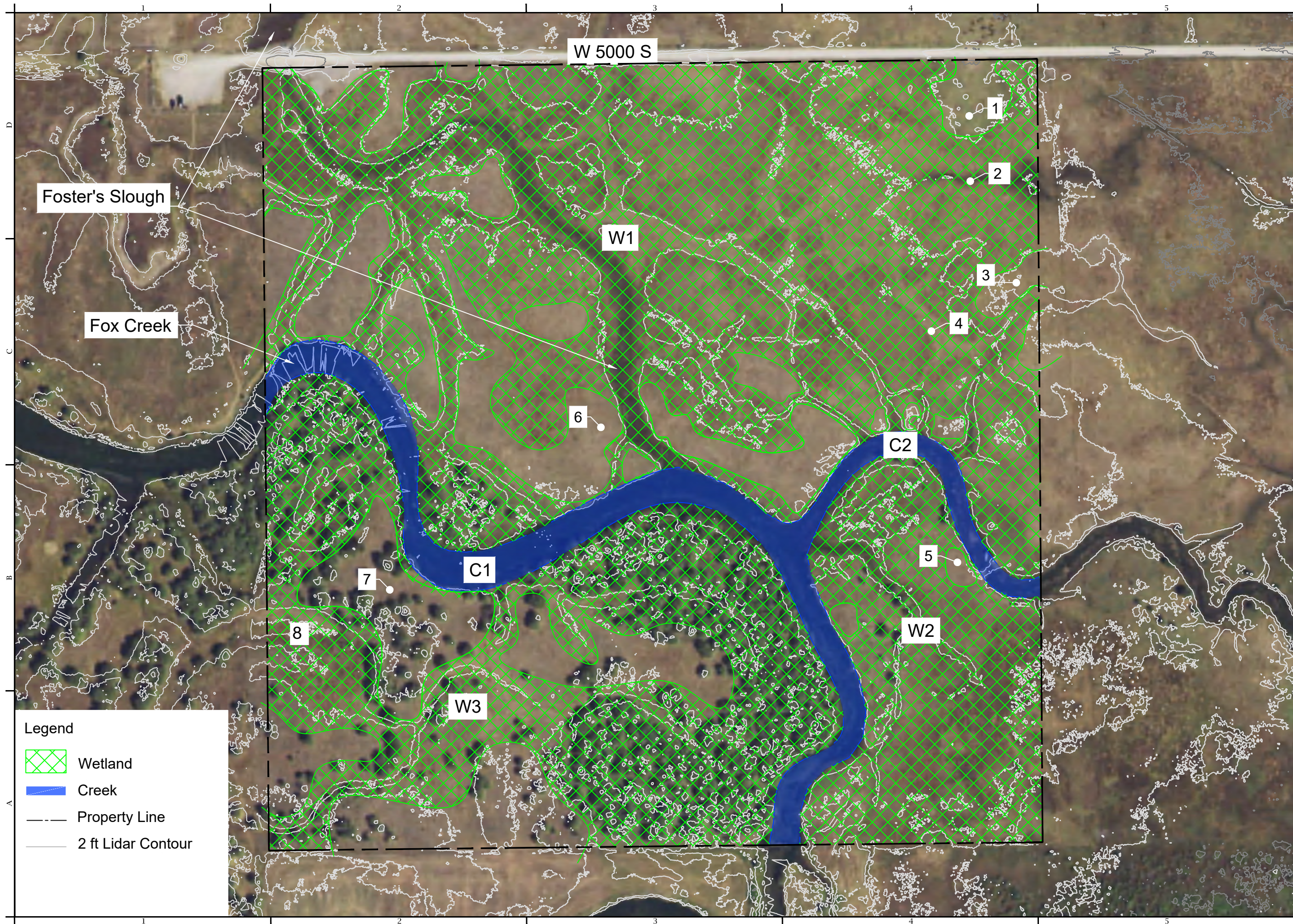
US Army Corps of Engineers. 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountain, Valleys, and Coast Region (V. 2.0). Wetlands Regulatory Assistance Program. ARDC/EL TR-10-3

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

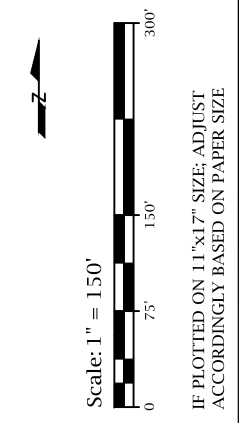
USGS. 7.5 minute series topographic maps

USGS. 2015, Streamer online mapping application available online at <https://txpub.usgs.gov/DSS/streamer/web/>.

APPENDIX A – AQUATIC RESOURCE INVENTORY MAP



FRAIZ PROPERTY
SEPTEMBER 22, 2022
Teton Co Idaho



DATE: _____
DRAWN BY: EV
CHECKED BY: JK
JOB NAME: FRAIZ DELINEATION
FILE: _____
REVISIONS: _____

Wetland
Delineation

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"W	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"W	Upland	NA
8	43°38'52.51"N	111° 9'57.22"W	Wetland	W3



1A Sample Point



1B Sample Point



2A Sample Point



2B Sample Point



3A Sample Point



3B Sample Point



4A Sample Point



4B Sample Point



5A Sample Point



5B Sample Point



6A 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



Fox Creek north side looking southeast



Fox Creek north side looking south



Foster's Slough looking south toward Fox Creek



Confluence of unnamed creek and Fox Creek looking south



North side of unnamed creek looking east



Unnamed creek looking southwest



Northeast side of property looking east



Northeast side of property looking



Swale on east side of property looking northwest



Unnamed creek looking southwest



Existing culvert crossing across unnamed creek



Fox creek bank erosion, north side



Upland area on north west side of property looking west



Foster's slough looking northwest



Connection between Foster's Slough and Fox Creek



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

APPENDIX E – WETLAND DELINEATION DATA FORMS

<u>Project/Site:</u> Fraiz		<u>City/Country:</u> Teton	<u>Sampling Date:</u> 8/4/22
<u>Applicant/Owner:</u>	Brian Fraiz	<u>State:</u> ID	<u>Sampling Point:</u> 1
<u>Investigator(s):</u> EV		<u>Section, Township, Range:</u> NE4NE4 SEC 29 T4N R45E	
<u>Landform (hillside, terrace, etc.):</u>		<u>Local relief (concave, convex, none):</u>	<u>Slope (%):</u>
<u>Subregion (LRR):</u>	LRR E, MLRA 43B	<u>Lat:</u> 43°39'1.08"N	<u>Long:</u> 111° 9'41.87"W
		<u>Datum:</u>	WGS84
<u>Soil Map Unit Name:</u> Furniss-Boquet complex		<u>NWI classification:</u> PEM	

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

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

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
			=Total Cover	
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
			=Total Cover	
<u>Herb Stratum</u> (Plot size: <u>5' x 5'</u>)				
1. <u>Carex nebrascensis</u>	25	Yes	FACW	
2. <u>Plantago major</u>	10	No	FAC	
3. <u>Medicago lupulina</u>	10	No	FACU	
4. <u>Taraxacum officinale</u>	5	No	FACU	
5. <u>Fac Grasses</u>	50	Yes	FAC	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
			100 =Total Cover	
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
			=Total Cover	
% Bare Ground in Herb Stratum _____				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:		
OBL species	<u>0</u>	x 1 =	<u>0</u>	
FACW species	<u>25</u>	x 2 =	<u>50</u>	
FAC species	<u>60</u>	x 3 =	<u>180</u>	
FACU species	<u>15</u>	x 4 =	<u>60</u>	
UPL species	<u>0</u>	x 5 =	<u>0</u>	
Column Totals:	<u>100</u>	(A)	<u>290</u>	(B)
Prevalence Index = B/A =			<u>2.90</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 X 2 - Dominance Test is >50%

 3 - Prevalence Index is $\leq 3.0^1$

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 5 - Wetland Non-Vascular Plants¹

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?

Yes X No

Remarks:

SOIL

Sampling Point: 1**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/3	100						
2-10	10YR 3/2	100						
10-14	10YR 4/1	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No ☐

Remarks:

Soil, crumbly, dry, without much structure

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Secondary Indicators (2 or more required)

<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? Yes ☐ No ☒ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

<u>Project/Site:</u> Fraiz		<u>City/County:</u> Teton	<u>Sampling Date:</u>	<u>8/4/22</u>
<u>Applicant/Owner:</u>	Brian Fraiz	<u>State:</u>	ID	<u>Sampling Point:</u> 2
<u>Investigator(s):</u> EV		<u>Section, Township, Range:</u> NE4NE4 SEC 29 T4N R45E		
<u>Landform (hillside, terrace, etc.):</u>		<u>Local relief (concave, convex, none):</u>	<u>Slope (%):</u>	
<u>Subregion (LRR):</u>	LRR E, MLRA 43B	<u>Lat:</u> 43°39'0.02"N	<u>Long:</u> 111° 9'41.62"W	<u>Datum:</u> WGS84
<u>Soil Map Unit Name:</u> Furniss-Boquet complex			<u>NWI classification:</u> PEM	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
			=Total Cover	
Sapling/Shrub Stratum		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
			=Total Cover	
Herb Stratum		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Carex nebrascensis</i>	95	Yes	FACW
2.	<i>Juncus balticus</i>	5	No	FACW
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
		100	=Total Cover	
Woody Vine Stratum		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
			=Total Cover	
% Bare Ground in Herb Stratum				

Remarks:

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 100	x 2 = 200
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals: 100 (A)	200 (B)
Prevalence Index = B/A = 2.00	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is $\leq 3.0^1$

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

5 - Wetland Non-Vascular Plants¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?

Yes X No

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 2/2	100						
4-10	10YR 3/2	100						
10-16	10YR 4/2	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
---	--

Remarks:
Soil, crumbly, dry, without much structure

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
soil moist but not saturated

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: 3
 Investigator(s): EV Section, Township, Range: NE4NE4 SEC 29 T4N R45E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR): LRR E, MLRA 43B Lat: 43°38'58.22"N Long: 111° 9'40.96"W Datum: WGS84
 Soil Map Unit Name: Furniss-Boquet complex NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: knoll near septic test well	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____				
2. _____				
3. _____				
4. _____				
				=Total Cover
Sapling/Shrub Stratum	(Plot size: _____)			
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
				=Total Cover
Herb Stratum	(Plot size: <u>5' x 5'</u>)			
1. <u>Carex nebrascensis</u>		5	No	FACW
2. <u>Iris missouriensis</u>		30	Yes	FACW
3. <u>Aster laevis</u>		1	No	FACU
4. <u>Achillea millefolium</u>		10	No	FACU
5. <u>Potentilla pulcherrima</u>		1	No	FAC
6. <u>Taraxacum officinale</u>		1	No	FACU
7. <u>Fac Grasses</u>		60	Yes	FAC
8. _____				
9. _____				
10. _____				
11. _____				
				108 =Total Cover
Woody Vine Stratum	(Plot size: _____)			
1. _____				
2. _____				
				=Total Cover
% Bare Ground in Herb Stratum _____				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>35</u>	x 2 = <u>70</u>
FAC species <u>61</u>	x 3 = <u>183</u>
FACU species <u>12</u>	x 4 = <u>48</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>108</u> (A)	<u>301</u> (B)
Prevalence Index = B/A = <u>2.79</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

5 - Wetland Non-Vascular Plants¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: 3**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/3	100						
4-10	10YR 3/1	100						
10-16	10YR 4/2	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Secondary Indicators (2 or more required)

<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? Yes ☐ No ☒ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

no soil moisture within sample point

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: 4
 Investigator(s): EV Section, Township, Range: NE4NE4 SEC 29 T4N R45E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR): LRR E, MLRA 43B Lat: 43°38'57.48"N Long: 111° 9'42.80"W Datum: WGS84
 Soil Map Unit Name: Furniss-Boquet complex NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____				
2. _____				
3. _____				
4. _____				
		=Total Cover		
Sapling/Shrub Stratum	(Plot size: _____)			
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
		=Total Cover		
Herb Stratum	(Plot size: <u>5' x 5'</u>)			
1. <u>Carex nebrascensis</u>		100	Yes	FACW
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
		100	=Total Cover	
Woody Vine Stratum	(Plot size: _____)			
1. _____				
2. _____				
		=Total Cover		
% Bare Ground in Herb Stratum _____				
Remarks:				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>100</u>	x 2 = <u>200</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>200</u> (B)
Prevalence Index = B/A = <u>2.00</u>	

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
X 3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
5 - Wetland Non-Vascular Plants¹
Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

SOIL

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/3	100					peat	
2-14	10YR 2/2	100					Loamy/Clayey	
14-18	10YR 4/1	100					Mucky Loam/Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
---	--

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 14 (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

<u>Project/Site:</u> Fraiz		<u>City/County:</u> Teton	<u>Sampling Date:</u>	<u>8/4/22</u>
<u>Applicant/Owner:</u>	Brian Fraiz	<u>State:</u>	ID	<u>Sampling Point:</u> 5
<u>Investigator(s):</u> EV		<u>Section, Township, Range:</u> NE4NE4 SEC 29 T4N R45E		
<u>Landform (hillside, terrace, etc.):</u>		<u>Local relief (concave, convex, none):</u>	<u>Slope (%):</u>	
<u>Subregion (LRR):</u>	LRR E, MLRA 43B	<u>Lat:</u> 43°38'53.59"N	<u>Long:</u> 111° 9'42.26"W	<u>Datum:</u> WGS84
<u>Soil Map Unit Name:</u> Furniss-Boquet complex			<u>NWI classification:</u> PEM	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____		_____	_____	_____
2. _____		_____	_____	_____
3. _____		_____	_____	_____
4. _____		_____	_____	_____
		=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1. _____		_____	_____	_____
2. _____		_____	_____	_____
3. _____		_____	_____	_____
4. _____		_____	_____	_____
5. _____		_____	_____	_____
		=Total Cover		
Herb Stratum (Plot size: 5' x 5')				
1. <i>Carex nebrascensis</i>		3	No	FACW
2. <i>Achillea millefolium</i>		5	No	FACU
3. <i>Aster laevis</i>		5	No	FACU
4. <i>Taraxacum</i>		10	No	FAC
5. <i>Fac Grasses</i>		75	Yes	FAC
6. _____		_____	_____	_____
7. _____		_____	_____	_____
8. _____		_____	_____	_____
9. _____		_____	_____	_____
10. _____		_____	_____	_____
11. _____		_____	_____	_____
		98 =Total Cover		
Woody Vine Stratum (Plot size: _____)				
1. _____		_____	_____	_____
2. _____		_____	_____	_____
		=Total Cover		
% Bare Ground in Herb Stratum _____				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ 1 (A)

Total Number of Dominant Species Across All Strata: _____ 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____ 0	x 1 = _____ 0
FACW species _____ 3	x 2 = _____ 6
FAC species _____ 85	x 3 = _____ 255
FACU species _____ 10	x 4 = _____ 40
UPL species _____ 0	x 5 = _____ 0
Column Totals: _____ 98 (A)	_____ 301 (B)
Prevalence Index = B/A = _____ 3.07	

Hydrophytic Vegetation Indicators:

_____ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

_____ 3 - Prevalence Index is $\leq 3.0^1$

_____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

_____ 5 - Wetland Non-Vascular Plants¹

_____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ☒ X

Remarks:

SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 2/1	100					Loamy/Clayey	
6-9	10YR 3/1	100					Loamy/Clayey	
9-12	10YR 5/1	100					Mucky Loam/Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)			Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)		
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)		
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)			
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)			
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)			
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)			
<input type="checkbox"/> Sandy Gleyed Matrix (S4)				

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
soil structure granular

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

<u>Project/Site:</u> Fraiz		<u>City/County:</u> Teton	<u>Sampling Date:</u>	<u>8/4/22</u>
<u>Applicant/Owner:</u>	Brian Fraiz	<u>State:</u>	ID	<u>Sampling Point:</u> 6
<u>Investigator(s):</u> EV		<u>Section, Township, Range:</u> NE4NE4 SEC 29 T4N R45E		
<u>Landform (hillside, terrace, etc.):</u>		<u>Local relief (concave, convex, none):</u>	<u>Slope (%):</u>	
<u>Subregion (LRR):</u>	LRR E, MLRA 43B	<u>Lat:</u> 43°38'53.22"N	<u>Long:</u> 111° 9'55.38"W	<u>Datum:</u> WGS84
<u>Soil Map Unit Name:</u> Furniss-Boquet complex			<u>NWI classification:</u> PEM	

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

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

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
			=Total Cover	
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
			=Total Cover	
<u>Herb Stratum</u> (Plot size: <u>5' x 5'</u>)				
1. <u>Carex nebrascensis</u>	5	No	FACW	
2. <u>Aster laevis</u>	5	No	FACU	
3. <u>Carduus nutans</u>	1	No	UPL	
4. <u>Taraxacum officinale</u>	5	No	FAC	
5. <u>Cirsium arvense</u>	10	No	FAC	
6. <u>Juncus balticus</u>	15	Yes	FACW	
7. <u>Fac grasses</u>	40	Yes	FAC	
8. <u>Achillea millefolium</u>	5	No	FACU	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
			86 =Total Cover	
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
			=Total Cover	
% Bare Ground in Herb Stratum _____				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:		
OBL species	<u>0</u>	x 1 =	<u>0</u>	
FACW species	<u>20</u>	x 2 =	<u>40</u>	
FAC species	<u>55</u>	x 3 =	<u>165</u>	
FACU species	<u>10</u>	x 4 =	<u>40</u>	
UPL species	<u>1</u>	x 5 =	<u>5</u>	
Column Totals:	<u>86</u>	(A)	<u>250</u>	(B)
Prevalence Index = B/A =			<u>2.91</u>	

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

____ 3 - Prevalence Index is $\leq 3.0^1$

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ 5 - Wetland Non-Vascular Plants¹

____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?

Yes X No _____

Remarks:

SOIL

Sampling Point: 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/2	100						
2-12	10YR 2/1	100						
12-16	10YR 3/1	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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 29 T4N R45E	
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR): LRR E, MLRA 43B	Lat: 43°38'53.22"N	Long: 111° 9'55.38"W
Datum: WGS84		
Soil Map Unit Name: Furniss-Boquet complex		NWI classification: PEM

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

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

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
		=Total Cover	
<u>Sapling/Shrub Stratum</u> (Plot size: _____)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
		=Total Cover	
<u>Herb Stratum</u> (Plot size: <u>5' x 5'</u>)			
1. <u>Carex nebrascensis</u>	1	No	FACW
2. <u>Agrostis stolonifera</u>	5	No	FAC
3. <u>Potentilla pulcherrima</u>	5	No	FAC
4. <u>Phleum pratense</u>	85	Yes	FAC
5. <u>Cirsium arvense</u>	10	No	FAC
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
		106 =Total Cover	
<u>Woody Vine Stratum</u> (Plot size: _____)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
		=Total Cover	
% Bare Ground in Herb Stratum _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>1</u>	x 2 = <u>2</u>
FAC species <u>105</u>	x 3 = <u>315</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>106</u> (A)	<u>317</u> (B)
Prevalence Index = B/A = <u>2.99</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

 3 - Prevalence Index is $\leq 3.0^1$

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 5 - Wetland Non-Vascular Plants¹

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 2/2	100						
4-8	10YR 2/1	100						
8-16	10YR 5/1	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: