AQUATIC RESOURCE DELINEATION

STRR LLC PROJECT AREA

TETON COUNTY, IDAHO

Prepared For

STRR LLC

P.O. Box G, Aspen, CO 81612

Prepared By

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January 13, 2025

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AQUATIC RESOURCE DELINEATION

STRR LLC PROJECT AREA

TETON COUNTY, IDAHO

INTRODUCTION

An Aquatic Resource Delineation (ARD) was performed in fall 2024 on the 643.5-acre STRR LLC project area in Teton County, Idaho. The project area was comprised of 7 parcels owned by STRR LLC (P.O. Box G, Aspen, CO 81612). The delineation was conducted by Kent Werlin and Chase Krumholz, wetland scientists for Biota.

The purpose of this study was to determine if any wetlands, per wetland definitions in the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory 1987) and applicable supplements, exist within the study area; and if present, to identify and document the locations and boundaries of all wetlands and other aquatic resources on the property per the 2019 Aquatic Resource Delineation guidance issued by the USACE Walla Walla District. The final determination of aquatic resource presence, boundaries, and jurisdiction under Section 404 of the Federal Clean Water Act is the privilege and responsibility of the USACE. An Approved Jurisdictional Determination (AJD) for the delineated aquatic resources in the project area is requested.

LOCATION AND PHYSIOGRAPHY

The project area is located north of Packsaddle Road (W 4000 N) and west of the Teton River, about 10 miles northwest of Driggs in Teton County, Idaho (T5N R44E Section 2 & 3; Appendix 1-Exhibit 1). The center of the project area is located at the following coordinates (43.7887071147153 N, -111.2332659655 E). Access to the project area from Driggs is gained by traveling north on ID-33 for about 4 miles, then west on W 4000 N for 5.7 miles, then north on Eddyline Drive.

The project area is located west of the Teton River, and the local topography is comprised of rolling hills. The project area includes a reach of Packsaddle Creek and associated floodplain and a small portion of the Teton River floodplain. Terrain within the project area is undulating with elevations ranging from 5,947 to 6,977 feet, and the drainage pattern is primarily west to east.

LAND USE AND CURRENT CONDITIONS

The project area is located on the west side of the Teton River, and the local topography is comprised of rolling hills. The property includes a reach of Packsaddle Creek and associated floodplain and a small portion of the Teton River floodplain. The property has a long history of agricultural use as active farmland and pastureland. Existing development on the property is limited to fencing and unimproved 2-track access routes for farm equipment. The majority of the STRR LLC property has been converted to farmland that is actively farmed. The remainder of the property is largely dominated by sagebrush steppe and riparian vegetation associated with Packsaddle Creek.

SOILS

Per the USDA Soil Survey that encompasses the project area, soils within the project area were mapped as Foxcreek-Zufelt complex - 0 to 2 percent slopes, Arimo-Zundell complex - 0 to 2 percent slopes, Badgerton-Arimo complex - 0 to 2 percent slopes, Alpine-Kucera complex - 0 to 4 percent slopes, Alpine-St. Anthony complex - 0 to 2 percent slopes, Kucera-Lostine complex - 0 to 4 percent slopes, and Iphil-Ririe complex - 4 to 20 percent slopes [Appendix 1-Exhibit 3]. A custom NRCS soil resource report for the study area is attached as Appendix 2.

AQUATIC RESOURCE DELINEATION

METHODS

A routine wetland delineation was performed in 2024 using the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). Preliminary data were gathered from several sources including the US Fish and Wildlife Service's National Wetlands Inventory (NWI) mapping; the National Wetland Plant List (Lichvar et al. 2012); LiDAR elevation data, and available aerial imagery. Sample points were established based on topographical setting; and soils, hydrology, and vegetation were characterized at each sample point.

Data associated with the wetland delineation were collected from 7 sample points and recorded onto wetland determination data forms from the 2010 USACE Regional Supplement (Appendix 3). Numerous informal sample points were also utilized to delineate aquatic resource boundaries. Aquatic resource boundaries were mapped using an Arrow 100 resource-grade GPS with sub-meter accuracy. Photographic documentation of aquatic resources and sample points are presented in Appendix 4.

RESULTS

NWI mapping depicts palustrine emergent wetlands (PEM1A) and riverine wetlands (R5UBH) within the project area (Appendix 1-Exhibit 4). Field data collected during this study confirmed that definitional wetlands are present within the project area. Subsequent mapping of wetland boundaries revealed that approximately 1.49-acres (64,856 sf) of the project area conformed to the definitional criteria for wetlands per the 1987 USACE Manual and the 2010 USACE Regional Supplement. Of the 7 sample points, all 3 wetland criteria were met at 3 sample points (SP3,4,5), and it was determined that these sample points were located in wetlands (Table 1). All 3 wetland criteria were not met at 4 sample points, and it was determined that these sample points were located in upland areas. It appears that while some of the depressional areas and relic fluvial channels proximate to Packsaddle Creek have wetland vegetation present, a lack of hydric soils and wetland hydrology indicate these areas do not have sufficient hydrology to support wetlands. Delineated wetland locations and sample points are depicted in Appendix 1-Exhibit 5.

WETLAND DETAILS

Multiple wetland classification systems have been developed and are currently in use around the world. The most common classification system and the one used in this report is "The Classification of Wetlands and Deepwater Habitats of the United States" (Cowardin et al. 1979). Within this system, wetland classification is based primarily on geologic and hydrologic considerations, with vegetation life form or substrate type used as a class modifier. Delineated wetlands were classified as palustrine emergent or palustrine scrub-shrub wetlands according to the Cowardin classification system and are described below and in Table 2. Aquatic resource locations are presented in Table 3.

Palustrine Scrub-Shrub Wetlands

Approximately 1.3-acres of delineated wetlands were classified as palustrine scrub-shrub. These wetlands are located on the Teton River floodplain in the northeastern portion of the project area.

Vegetation - Dominant woody vegetation within the scrub-shrub wetlands included *Salix exigua, Salix lutea and Dasiphora fruticosa,* with *Carex utriculata, Carex nebrascensis, Hippuris vulgaris* and *Poa pratensis* dominating the understory.

Hydrology – Hydrologic support for delineated scrub-shrub wetlands is provided by a seasonally elevated water table associated with the Teton River. The hydrologic regime of these wetlands appears to be temporarily to seasonally flooded. No primary wetland hydrology indicators were found at the scrub-shrub wetland sample point. Secondary indicators observed included Saturation Visible on Aerial Imagery (C9), Geomorphic Position (D2) and FAC-Neutral Test (D5).

Soils – The only hydric soil indicator observed in the scrub-shrub wetland was Redox Dark Surface (F6). "Other" was utilized as an indicator for soils observed at SP5. The area was considered a wetland because wetland hydrology indicators and wetland vegetation were present. Soil characteristics associated with scrub-shrub wetland sample points are presented on the respective data sheets in Appendix 2.

Palustrine Emergent Wetlands

Approximately 0.19 acres of delineated wetlands were classified as palustrine emergent. Although a few willows were present in a portion of the delineated emergent wetlands, shrub canopy coverage did not meet the 30% canopy coverage criterion for classification as scrub-shrub wetlands.

Vegetation – The vegetation community within delineated emergent wetlands was dominated by *Juncus balticus, Agrostis stolonifera,* and *Poa pratensis.*

Hydrology – Hydrologic support for delineated emergent wetlands is provided by Packsaddle Creek (C1). The hydrologic regime of delineated emergent wetlands appears to be temporarily flooded (surface water present for several weeks early in the growing season) to seasonally flooded (surface water present for 2 to 3 months during the growing season). No primary indicators were observed. Secondary indicators observed included geomorphic position (D2), and a positive FAC-neutral test (D5).

Soils – The only hydric soil indicator observed at the emergent wetland sample point was Histic Epipedon (A2). Soil characteristics associated with emergent wetland sample point are presented on the respective data sheets in Appendix 2.

Table 1. Summary of individual sample points and wetland criteria, STRR LLC Project Area, Teton County, Idaho. (Are criteria met and is it a wetland? N=No and Y=Yes)

Sample Point	Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	Wetland Determination
SP1	Y	N	N	N
SP2	N	N	N	N
SP3	N	N	Y	N
SP4	Y	Y	Y	Y
SP5	Y	Y	Y	Y
SP6	Y	Y	Y	Y
SP7	N	N	N	N

Table 2. Aquatic resource summary, STRR LLC Project Area, Teton County, Idaho.

Aquatic Resource Feature ID	Aquatic Resource Type	Sample Point ID	Wetland Type (Cowardin)	Area (acres)	Area (sq ft)	Notes	Photos
W1	Emergent Wetland	SP4	PEMA/C	0.19	8,095	Supported by an elevated water table and surface water from seasonal flows associated with Packsaddle Creek	P7, P8
W2	Scrub-Shrub Wetland	SP5	PSSA/C	0.49	21,133	Supported by an elevated water table associated with the Teton River	P9, P10
W3	Scrub-Shrub Wetland	SP6	PSSA/C	0.82	5,045	Supported by an elevated water table associated with the Teton River	P11, P12
C1	Packsaddle Creek	NA	NA	4.49	195,377	Approximately 8,700 ft. lineal foot reach	P15, P18, P19

Table 3. Aquatic resource locations, STRR LLC Project Area, Teton County, Idaho.

Aquatic Resource Feature ID	Latitude	Longitude
W1	43.7861287816779	-111.23476336369
W1	43.7838141301314	111.248197067428
W1	43.7859295217764	-111.235560307299
W2	43.7917976199919	-111.225934171186
W3	43.7957634111753	-111.226155501742
C1	43.7857652603681	-111.234809546569

NON-WETLAND AQUATIC RESOURCE DETAILS

USACE-approved field indicators were used to identify and delineate the Ordinary High-Water Mark (OHWM) for non-wetland aquatic features, and photos of the non-wetland aquatic resource are presented in Appendix 3. The only non-wetland aquatic resource in the project area is a reach of Packsaddle Creek (C1). Packsaddle Creek originates about 2 miles west of the project area, flows west-to-east through the southern portion of the project area, and eventually flows into the Teton River about 1,000 ft east of the project area. Packsaddle Creek is an ephemeral creek that has flashy hydrology with strong seasonal flow fluctuations. The project area reach of the creek is typically at bankfull stage in early summer and then completely dry by late summer.

SUMMARY AND CONCLUSIONS

A routine wetland delineation was performed as part of a comprehensive aquatic resource delineation within the 643.5-acre STRR LLC project area in the fall of 2024. Field data collected from 7 sample points showed that about 1.49-acres (64,856 sq ft) of the project area conformed to wetland definitional criteria per the USACE 1987 Wetland Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). Wetlands were classified as palustrine emergent or palustrine scrub-shrub. Wetland boundaries were mapped in the field with an Arrow 100 resource-grade GPS and refined via the use of multiple aerial imagery datasets and LiDAR elevation data. A reach of Packsaddle Creek is the only non-wetland aquatic resource in the project area. Hydrologic support for delineated wetlands appears to be provided by a seasonally elevated water tables associated with the Teton River and Packsaddle Creek. Many depressional areas and relic fluvial channels are located along Packsaddle Creek. Due to Packsaddle Creek's flashy seasonal flow fluctuations, most of these depressional areas have insufficient hydrologic support to meet wetland criteria.

LITERATURE CITED

Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. FWS/OBS-79/31. USDI Fish and Wildlife Service, Wash. DC. 131pp.

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USDA. 2020. Hydric Soils List. USDA Natural Resources Conservation Service. https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1316620.html.

USDA. 2013. Soil Survey of Teton Area, Idaho and Wyoming. USDA Natural Resources Conservation Service. http://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/wyoming/TetonIDWY2013/TetonIDWY_2013.pdf

APPENDIX 1 – EXHIBITS

1) Location and Topography, STRR LLC Project Area, Teton County, Idaho.

2) Site Characteristics, STRR LLC Project Area, Teton County, Idaho.

3) USDA Soil Survey Mapping, STRR LLC Project Area, Teton County, Idaho.

4) National Wetland Inventory Mapping, STRR LLC Project Area, Teton County, Idaho.

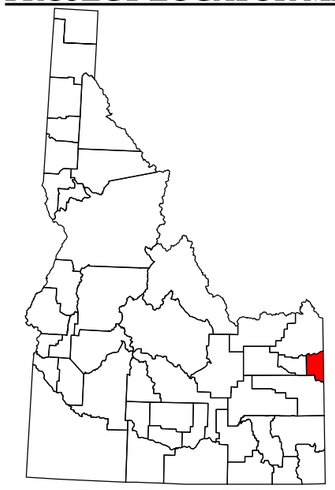
5) Aquatic Resource Delineation Results, STRR LLC Project Area, Teton County, Idaho.

AQUATIC RESOURCE DELINEATION
STRR LLC Project Area
Teton County, Idaho

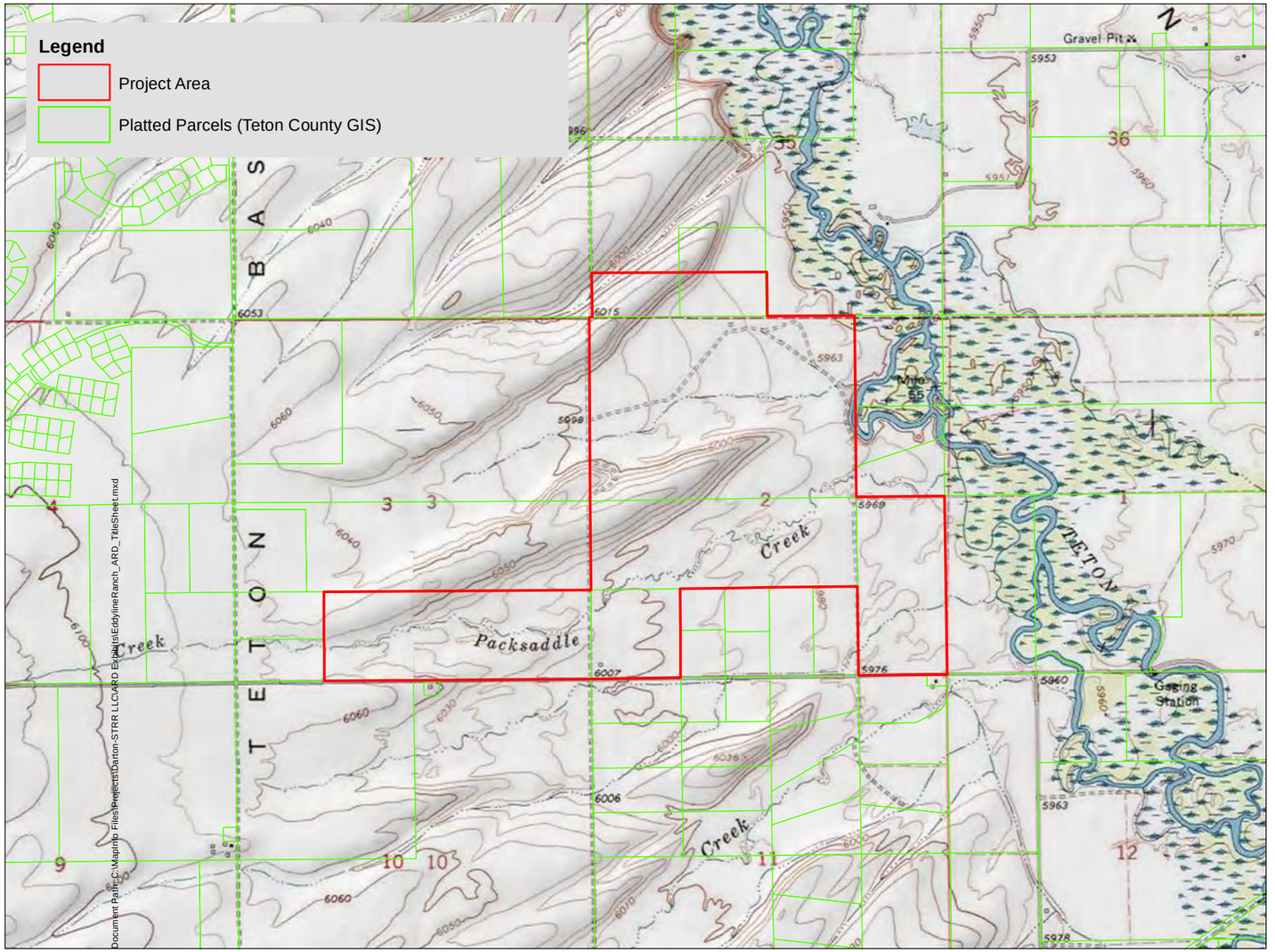
PREPARED FOR:
STRR LLC

EXHIBIT INDEX

PROJECT LOCATOR MAP



Teton County, Idaho



Biota research & consulting inc.
PO Box 8578. 140 E. Broadway, Suite 23 Jackson, WY 83002

Project Location

STRR LLC Project Area
Teton County, Idaho

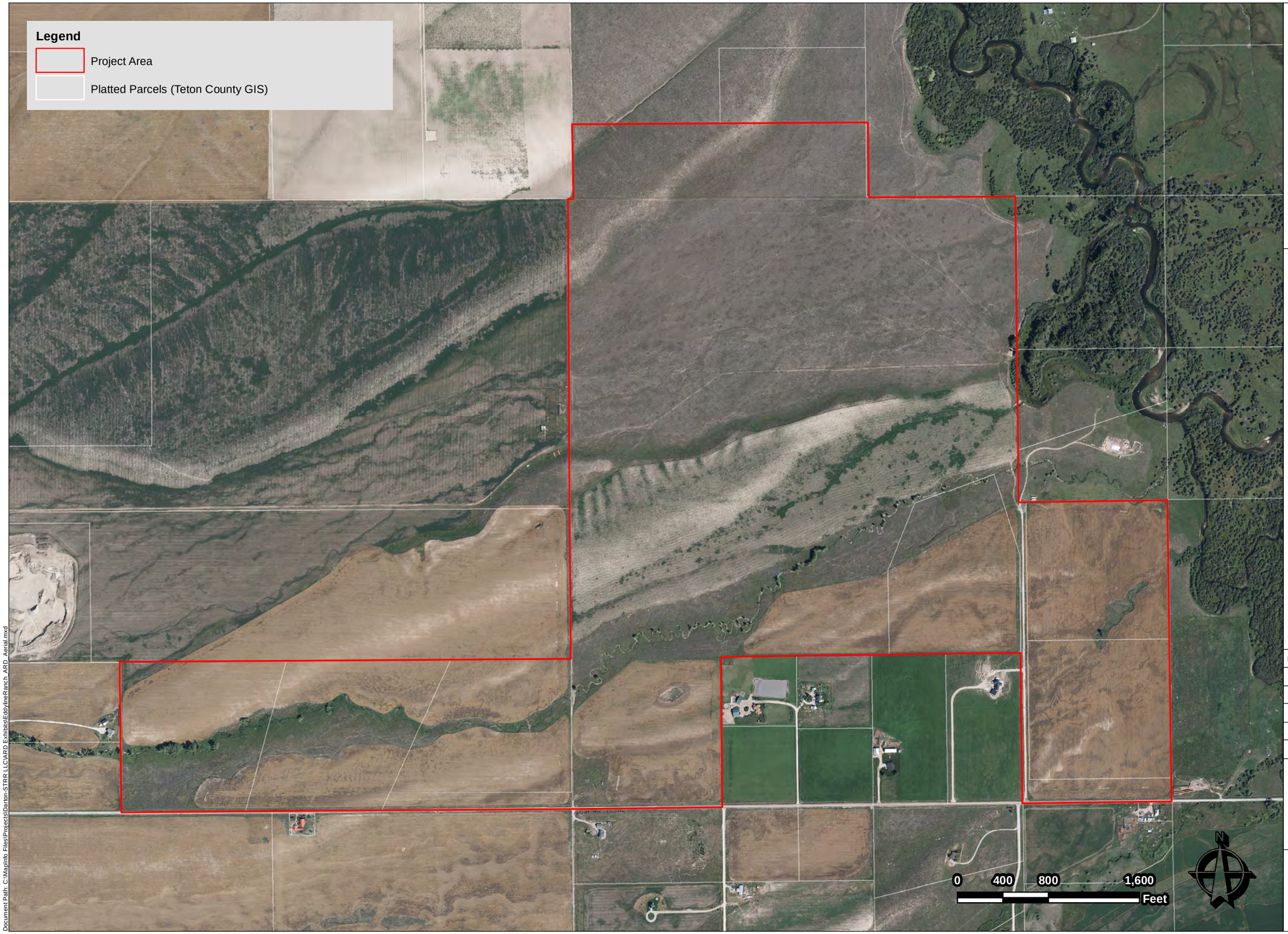
REV.	DATE	BY	DESC
A	12-10-2024	CK	ARD Results

SCALE: 1" = 2,000'

UNITS: US FOOT

BASEMAP SOURCE: ESRI USA TOPO MAPS

EXHIBIT 1



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Site Characteristics

STRR LLC Project Area
Teton County, Idaho

REV.	DATE	BY	DESC
A	12-10-2024	CK	ARD Results

SCALE: 1" = 800'

UNITS: US FOOT

BASEMAP SOURCE:
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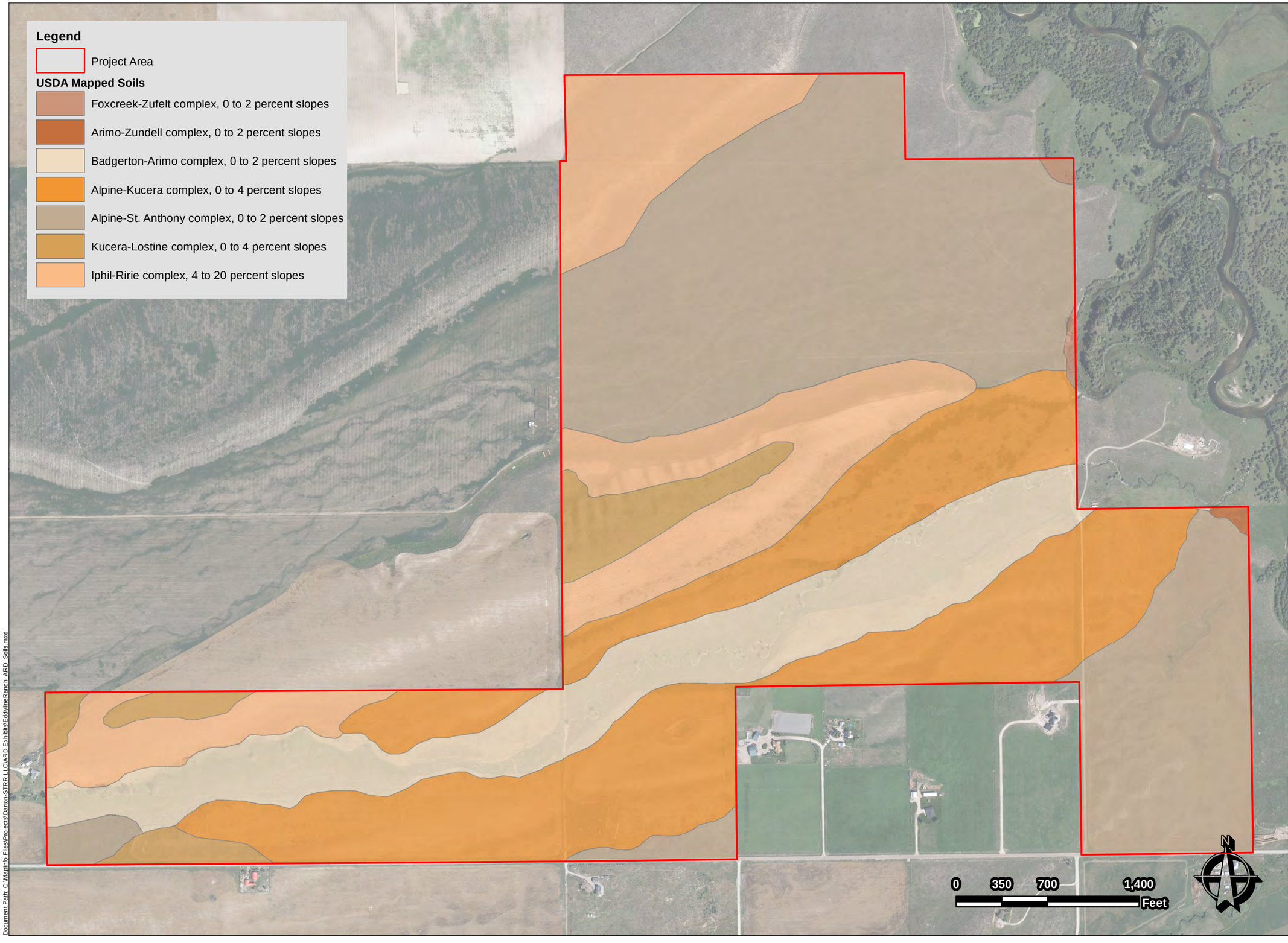

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USDA Soil Survey Mapping

STRR LLC Project Area
Teton County, Idaho

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SCALE: 1" = 700'

UNITS: US FOOT

BASEMAP SOURCE:
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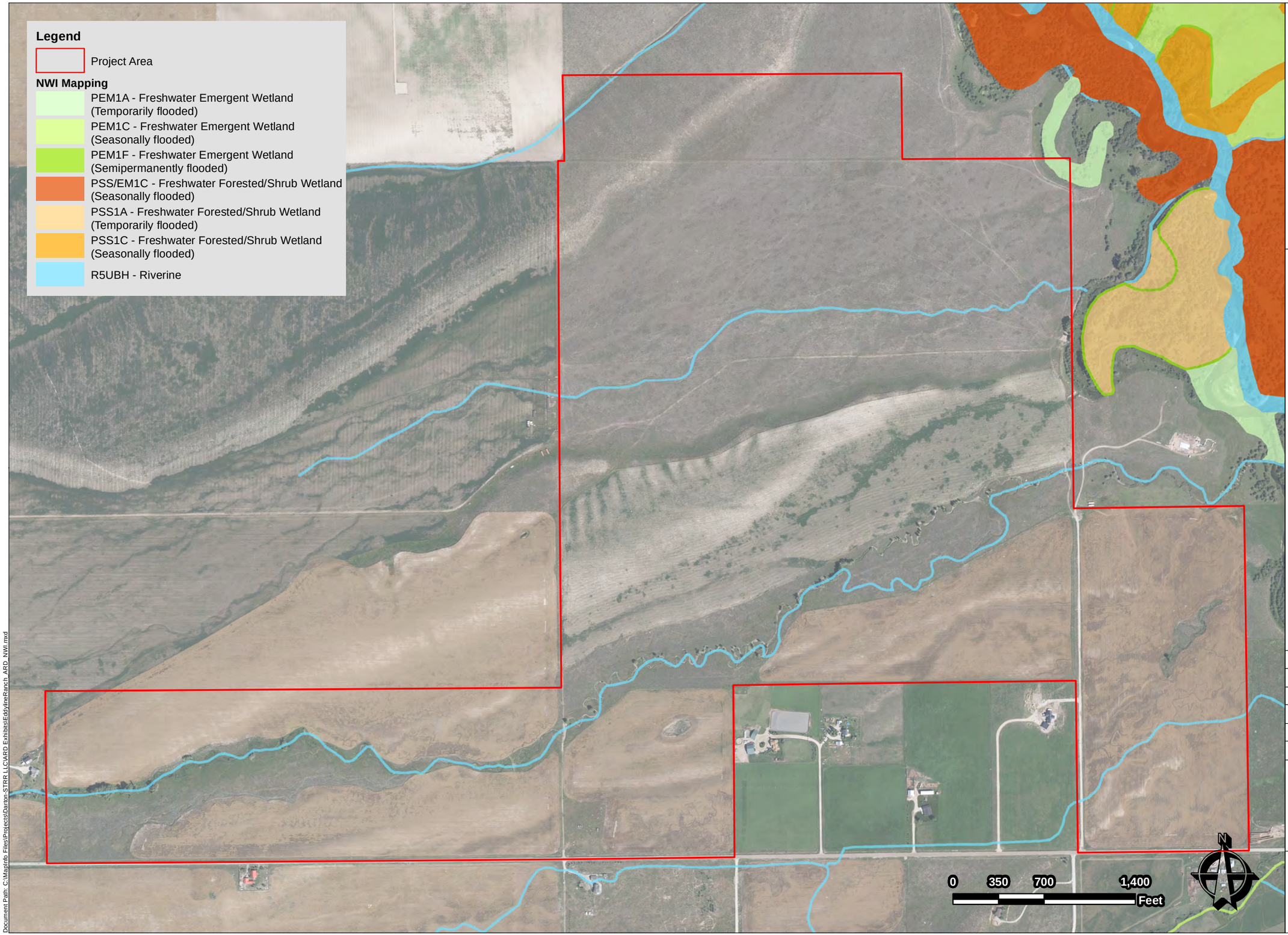

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National Wetland Inventory Mapping

STRR LLC Project Area
Teton County, Idaho

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UNITS: US FOOT

BASEMAP SOURCE:
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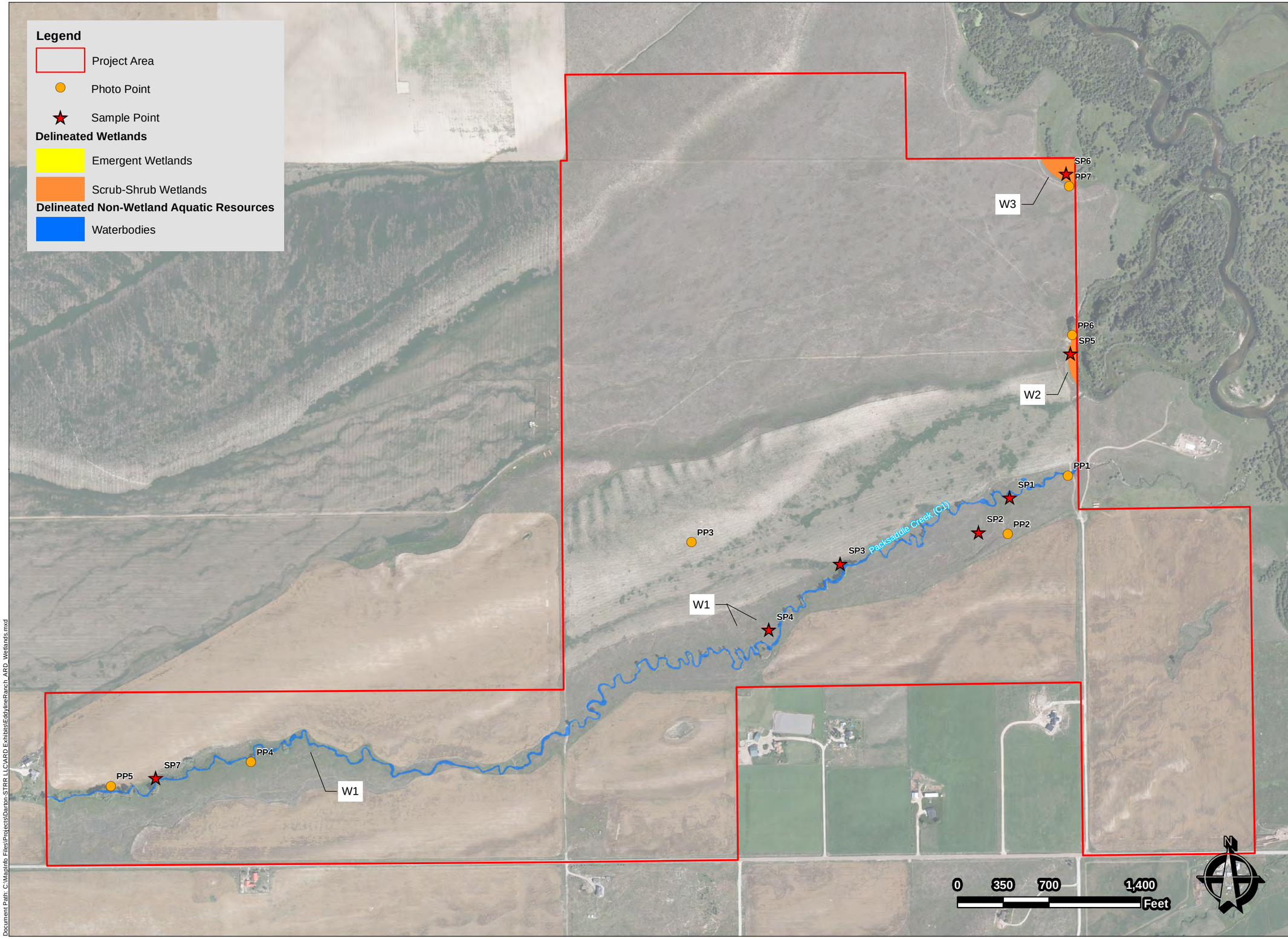

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Aquatic Resource Delineation Results

STRR LLC Project Area
Teton County, Idaho

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A	12-11-2024	CK	ARD Results

SCALE: 1" = 700'

UNITS: US FOOT

BASEMAP SOURCE:
2023 Aerial Photography

EXHIBIT 5

Document Path: C:\Maginfo Files\Projects\Darton-STRR LLC\ARD Exhibits\EddyAveRanch_ARD_Wetlands.mxd

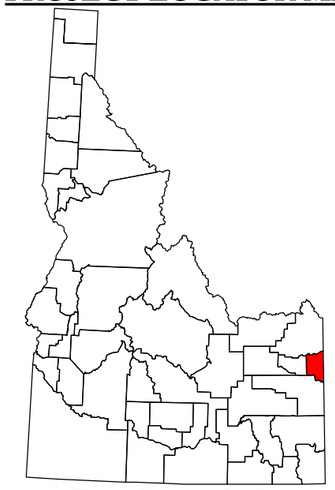
APPENDIX 2 – CUSTOM NRCS SOIL REPORT

AQUATIC RESOURCE DELINEATION
STRR LLC Project Area
Teton County, Idaho

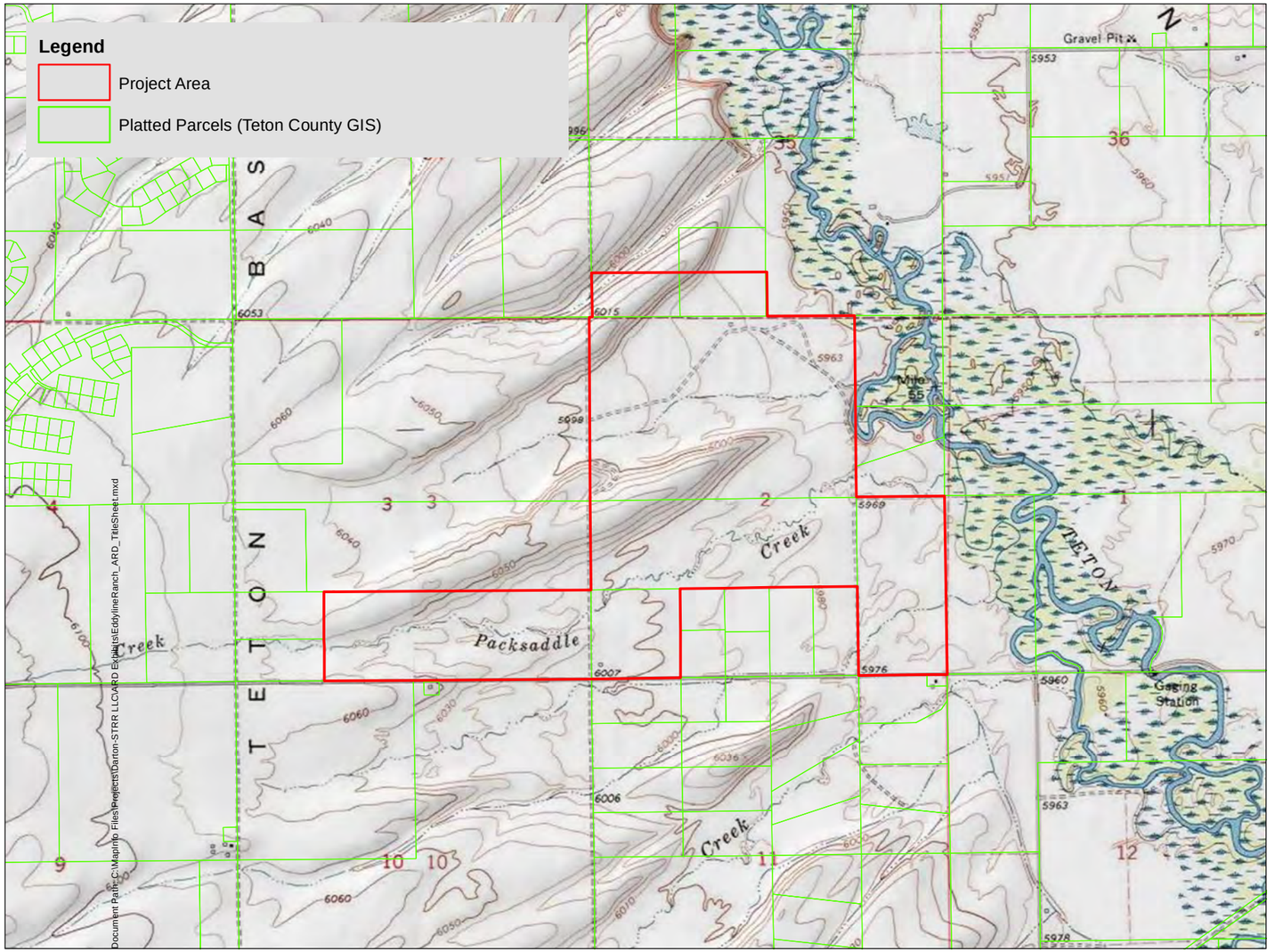
PREPARED FOR:
STRR LLC

EXHIBIT INDEX

PROJECT LOCATOR MAP



Teton County, Idaho



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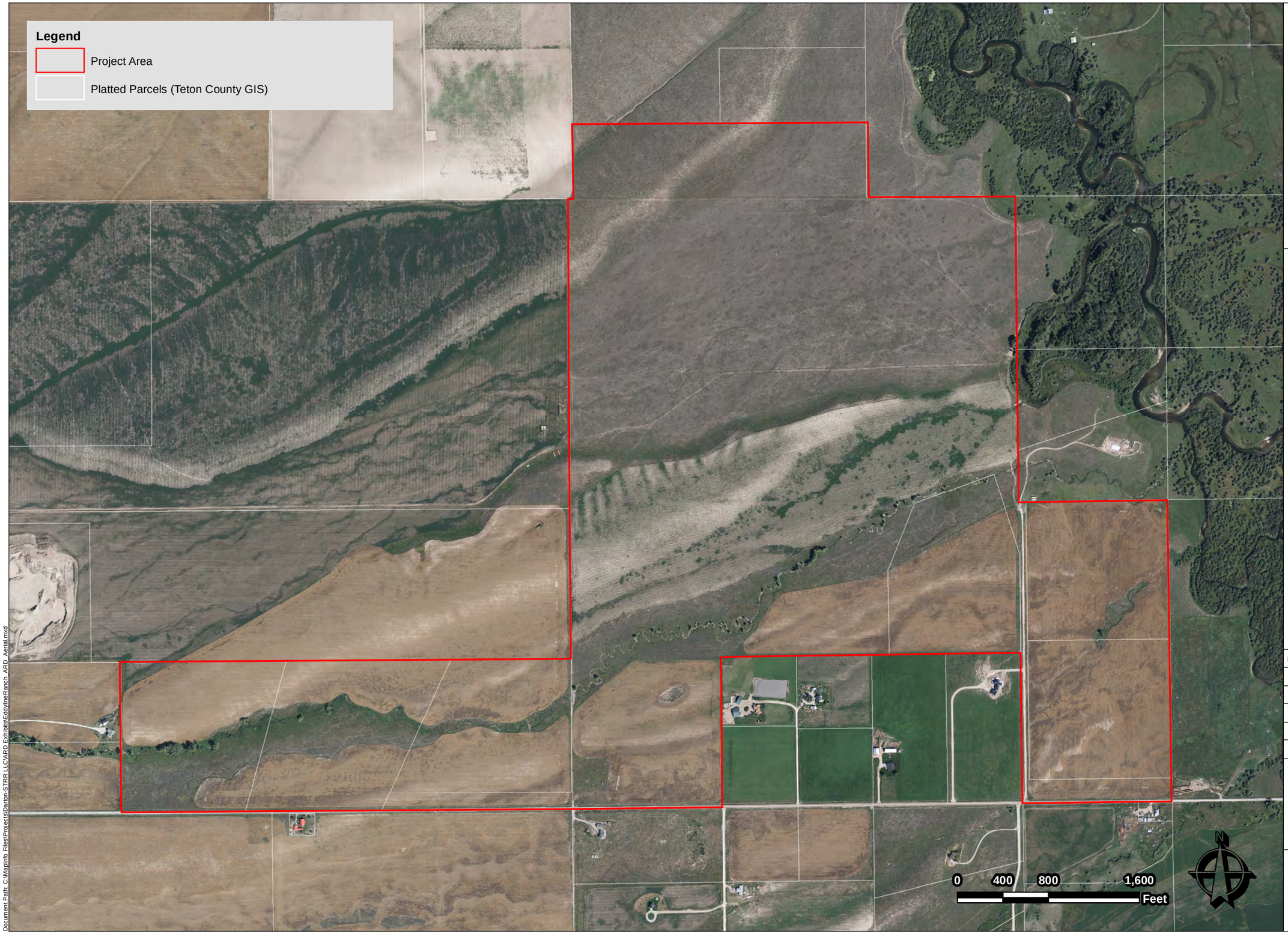

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Site Characteristics

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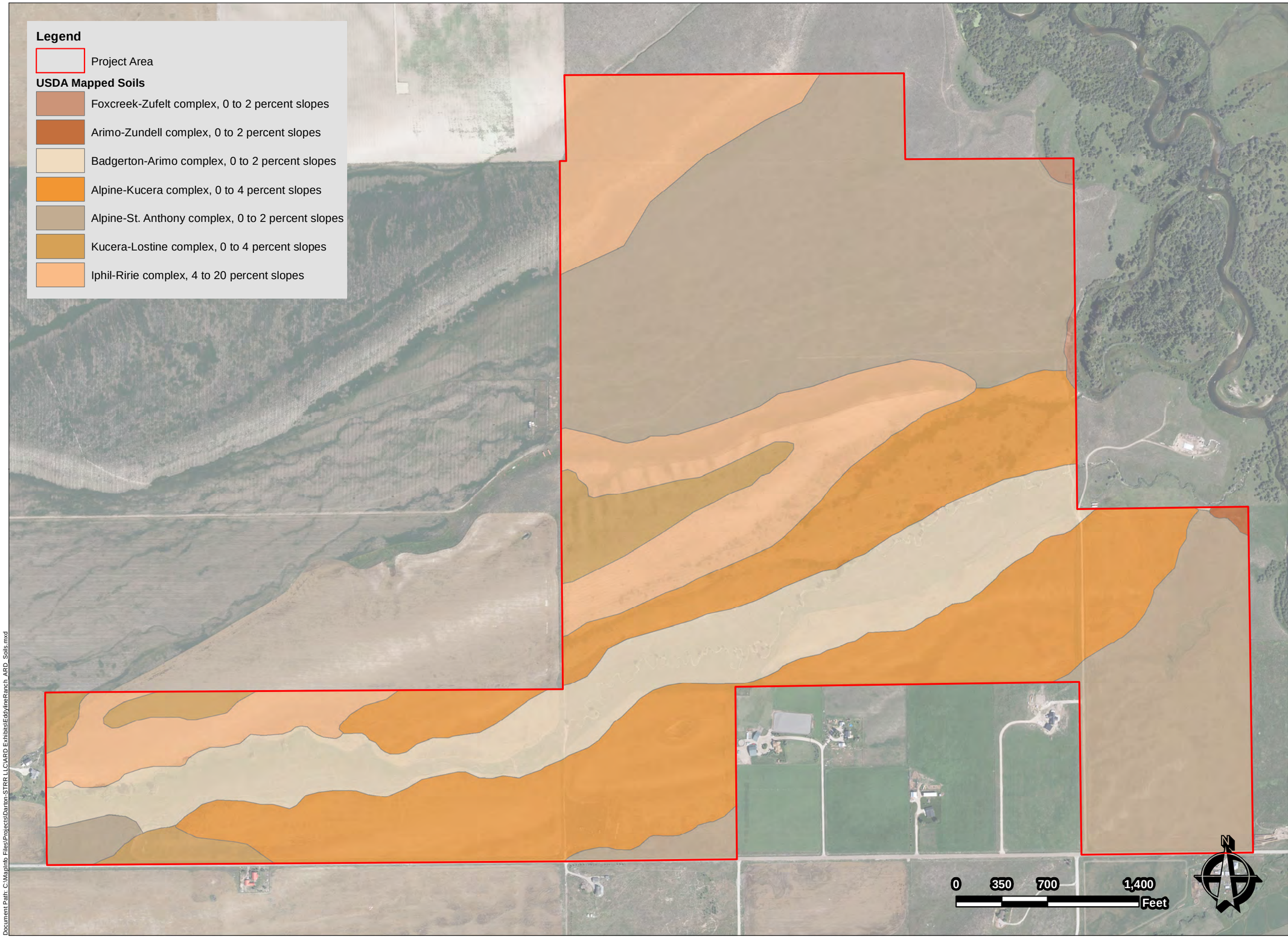

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USDA Soil Survey Mapping

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BASEMAP SOURCE:
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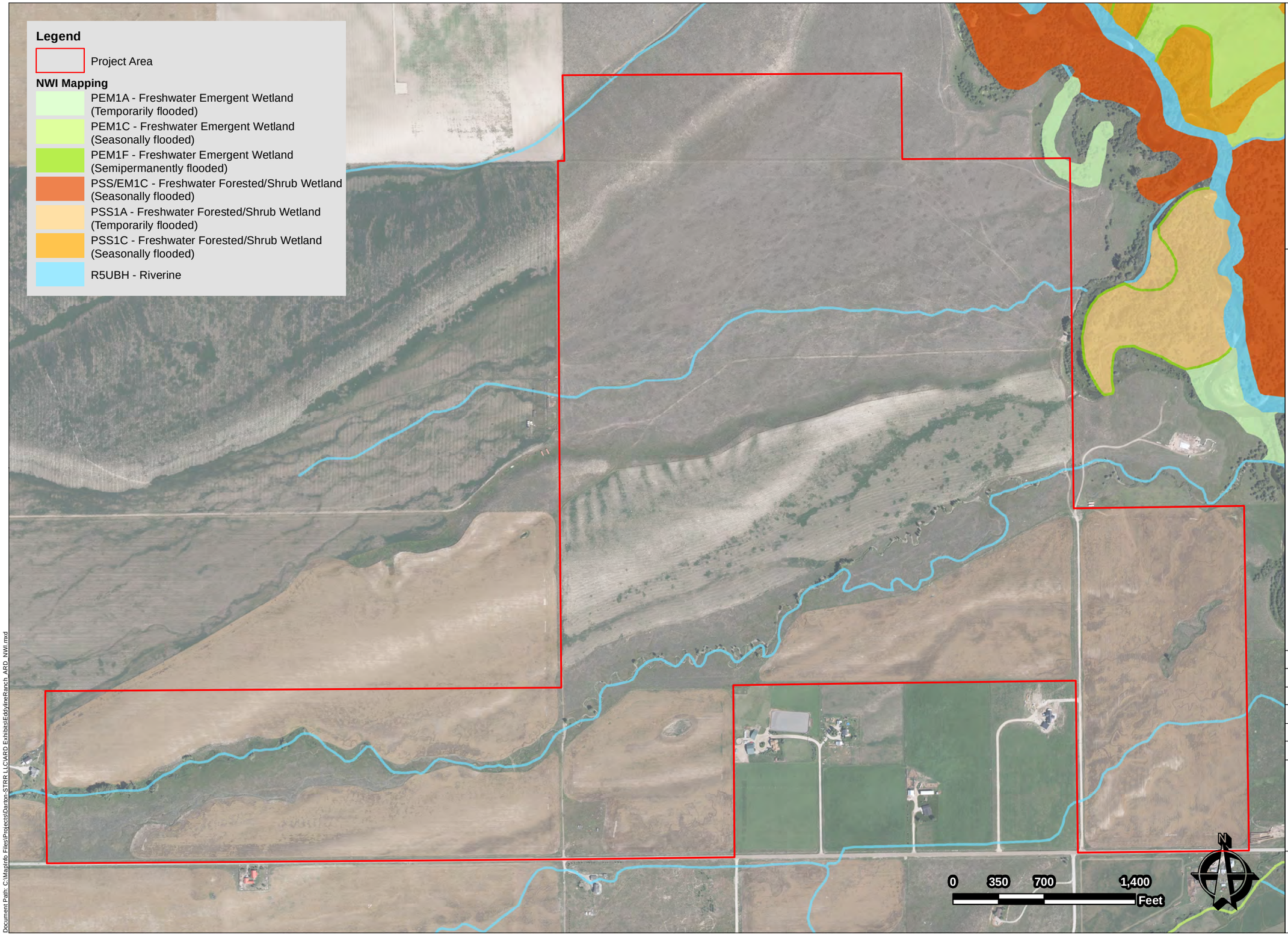

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National Wetland Inventory Mapping

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BASEMAP SOURCE:
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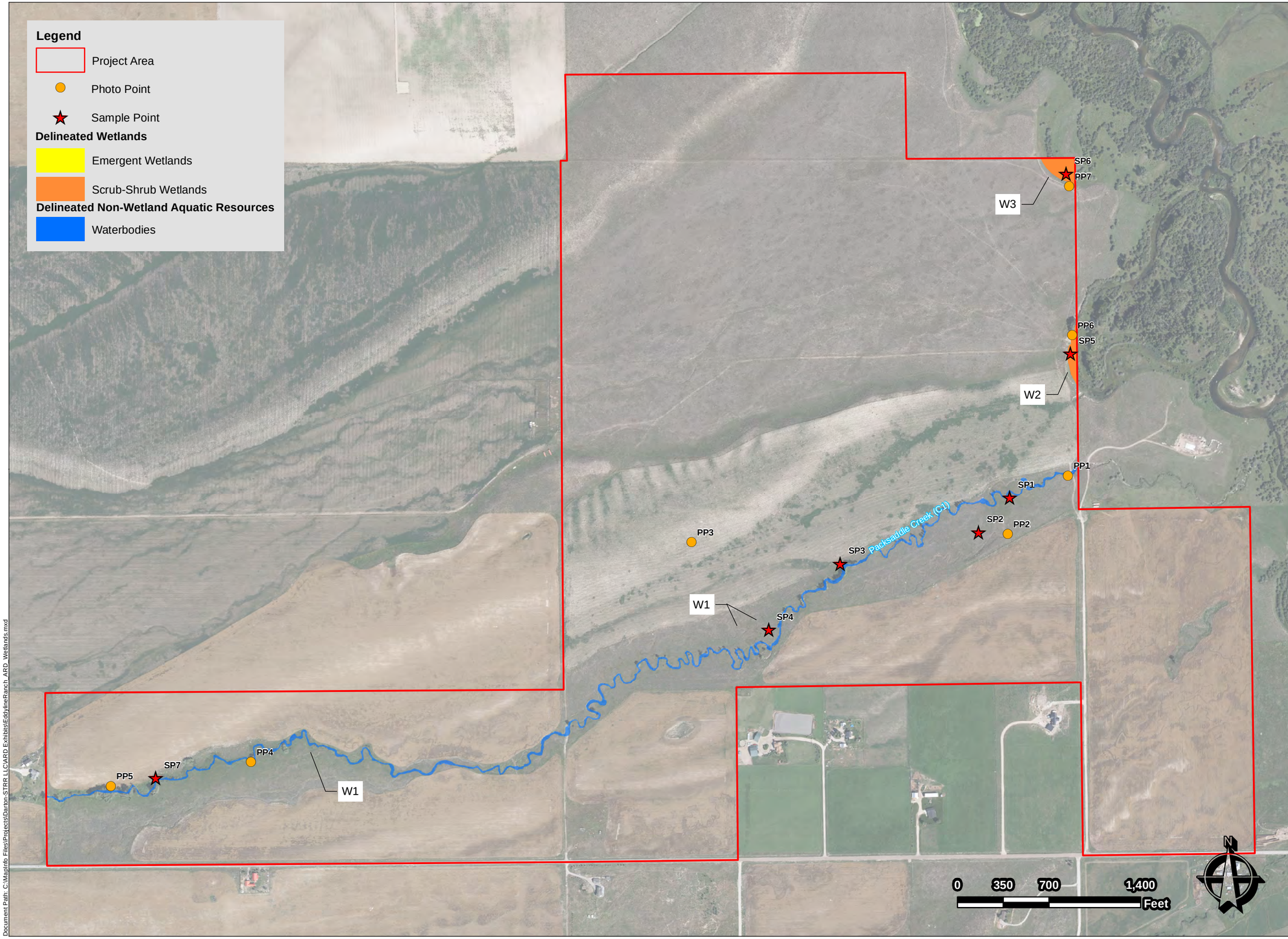

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Aquatic Resource Delineation Results

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BASEMAP SOURCE:
2023 Aerial Photography

EXHIBIT 5

Document Path: C:\Maginfo Files\Projects\Darton-STRR LLC\ARD Exhibits\EddyAveRanch_ARD_Wetlands.mxd

APPENDIX 3 – WETLAND DETERMINATION DATA FORMS

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 09/27/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP1

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 2 T05N R44E

Landform (hillside, terrace, etc.): Floodplain | Local relief (concave, convex, none): concave | Slope (%):

Subregion (LRR/MLRA): LRR E | Lat: 43.78886576 | Long: -111.22781702 | Datum: NAD 83

Soil Map Unit Name: Badgerton-Arimo complex, 0 to 2 percent slopes | NWI classification: Upland

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 X	No	**Is the Sampled Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks:
Site located adjacent to creek channel.

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: 1 meter)			
1. *Poa pratensis*	35	No	FAC
2. *Juncus balticus*	60	Yes	FACW
3. *Phleum pratense*	20	No	FAC
4. *Artemisia ludoviciana*	15	No	FACU
5. *Potentilla gracilis*	40	Yes	FAC
6. *Elymus trachycaulus*	15	No	FAC
7.			
8.			
9.			
10.			
11.			
	185 =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	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	110	x 3 =	330
FACU species	15	x 4 =	60
UPL species	0	x 5 =	0
Column Totals:	185 (A)		510 (B)
Prevalence Index = B/A =			2.76

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0[1]
- 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants[1]
- Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No**

Remarks:

SOIL

Sampling Point: SP1

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 3/2	90					Sandy	Sandy loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators 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** X

Remarks:

No redox observed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2 4A, and 4B**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 09/27/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP2

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 2 T05N R44E

Landform (hillside, terrace, etc.): relic channel | Local relief (concave, convex, none): concave | Slope (%): 1

Subregion (LRR/MLRA): LRR E | Lat: 43.7881478626052 | Long: -111.228728255682 | Datum: NAD 83

Soil Map Unit Name: Badgerton-Arimo complex, 0 to 2 percent slopes | NWI classification: Upland

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 ____ No X

Hydric Soil Present? Yes ____ No X

Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? **Yes** ____ **No** X

Remarks:
Site located within relic floodplain channel.

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: 1 meter)			
1. *Koeleria macrantha*	70	Yes	UPL
2. *Poa pratensis*	30	Yes	FAC
3. *Lupinus argenteus*	5	No	UPL
4. *Achillea millefolium*	10	No	FACU
5. *Artemisia tridentata*	10	No	UPL
6.			
7.			
8.			
9.			
10.			
11.			
	125 =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: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	30	x 3 =	90
FACU species	10	x 4 =	40
UPL species	85	x 5 =	425
Column Totals:	125 (A)		555 (B)
Prevalence Index = B/A =			4.44

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is >50%

____ 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ 5 - Wetland Non-Vascular Plants[1]

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks:

SOIL

Sampling Point: SP2

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 3/2	90					Sandy	Fine Sandy Loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators 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** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 09/27/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP3

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 2 T05N R44E

Landform (hillside, terrace, etc.): Relic channel | Local relief (concave, convex, none): concave | Slope (%): 1

Subregion (LRR/MLRA): LRR E | Lat: 43.7875214363817 | Long: -111.232741507495 | Datum: NAD 83

Soil Map Unit Name: Alpine-Kucera complex, 0 to 4 percent slopes | NWI classification: Upland

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 ____	No X	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site located within relic channel.

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: 1 meter)			
1. *Bromus inermis*	90	Yes	UPL
2. *Elymus trachycaulus*	15	No	FAC
3. *Koeleria macrantha*	10	No	UPL
4. *Poa pratensis*	30	Yes	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	145 =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: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	45	x 3 =	135
FACU species	0	x 4 =	0
UPL species	100	x 5 =	500
Column Totals:	145 (A)		635 (B)

Prevalence Index = B/A = 4.38

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation
____ 2 - Dominance Test is >50%
____ 3 - Prevalence Index is ≤3.0[1]
____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ 5 - Wetland Non-Vascular Plants[1]
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks:

SOIL

Sampling Point: SP3

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2	85	10YR 4/6	2	D	M	Sandy	Fine Sandy Loam
8-24								coarse alluvium

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- x Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: Likely legacy redox from past hydrologic regime.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 09/27/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP4

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 2 T05N R44E

Landform (hillside, terrace, etc.): Relic channel | Local relief (concave, convex, none): concave | Slope (%): 1

Subregion (LRR/MLRA): LRR E | Lat: 43.7861513697402 | Long: -111.234837245123 | Datum: NAD 83

Soil Map Unit Name: Badgerton-Arimo complex, 0 to 2 percent slopes | NWI classification: Upland

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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site located within swale adjacent to creek.

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: 1 meter)			
1. *Juncus balticus*	85	Yes	FACW
2. *Poa pratensis*	30	No	FAC
3. *Agrostis stolonifera*	15	No	FAC
4. *Elymus trachycaulus*	15	No	FAC
5. *Potentilla gracilis*	10	No	FAC
6.			
7.			
8.			
9.			
10.			
11.			
	155	=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	85	x 2 =	170
FAC species	70	x 3 =	210
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	155 (A)		380 (B)

Prevalence Index = B/A = 2.45

Hydrophytic Vegetation Indicators:

X 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ 5 - Wetland Non-Vascular Plants[1]

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

SOIL

Sampling Point: SP4

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	85	10YR 4/6	7	D	M	Sandy	Fine Sandy Loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- x Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2 4A, and 4B**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 10/30/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP5

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 2 T05N R44E

Landform (hillside, terrace, etc.): Floodplain | Local relief (concave, convex, none): concave | Slope (%): 1

Subregion (LRR/MLRA): LRR E | Lat: 43.7918728630941 | Long: -111.22601224919 | Datum: NAD 83

Soil Map Unit Name: Foxcreek-Zufelt complex, 0 to 2 percent slopes | NWI classification: Upland

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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site located within relic channel/floodplain of the Teton River.

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: 2 meter)			
1. *Salix lucida*	50	Yes	FACW
2. *Salix exigua*	30	Yes	FACW
3.			
4.			
5.			
	80 =Total Cover		
Herb Stratum (Plot size: 1 meter)			
1. *Carex utriculata*	90	Yes	OBL
2. *Poa pratensis*	30	Yes	FAC
3. *Hippuris vulgaris*	15	No	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	135 =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: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (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	105	x 1 =	105
FACW species	80	x 2 =	160
FAC species	30	x 3 =	90
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	215 (A)		355 (B)

Prevalence Index = B/A = 1.65

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
X 3 - Prevalence Index is ≤3.0[1]
____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ 5 - Wetland Non-Vascular Plants[1]
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

SOIL

Sampling Point: SP5

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	85					Mucky Loam/Clay	Clay Loam
10-24								Coarse alluvium

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- X Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Could not excavate beyond 10". Soil considered hydric do to a hydrophytic plant community and wetland hydrology indicators.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2 4A, and 4B**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 10/30/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP6

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 2 T05N R44E

Landform (hillside, terrace, etc.): floodplain | Local relief (concave, convex, none): concave | Slope (%): 1

Subregion (LRR/MLRA): LRR E | Lat: 43.7956424186253 | Long: -111.226078386128 | Datum: NAD 83

Soil Map Unit Name: Foxcreek-Zufelt complex, 0 to 2 percent slopes | NWI classification: PEM1A

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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site located within relic channel/floodplain of the Teton River.

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: 2 Meter)			
1. *Salix geyeriana*	45	Yes	FACW
2. *Dasiphora fruticosa*	20	Yes	FAC
3.			
4.			
5.			
	65	=Total Cover	
Herb Stratum (Plot size: 1 Meter)			
1. *Phleum pratense*	35	No	FAC
2. *Agrostis stolonifera*	75	Yes	FAC
3. *Carex nebrascensis*	30	No	OBL
4. *Plantago major*	40	Yes	FAC
5. *Poa pratensis*	35	No	FAC
6.			
7.			
8.			
9.			
10.			
11.			
	215	=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: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (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	30	x 1 =	30
FACW species	45	x 2 =	90
FAC species	205	x 3 =	615
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	280 (A)		735 (B)

Prevalence Index = B/A = 2.63

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ 5 - Wetland Non-Vascular Plants[1]

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

SOIL

Sampling Point: SP6

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/2	90					Loamy/Clayey	Clay Loam
6-24	10YR 3/2	85	10YR 4/6	3	D	M	Loamy/Clayey	Clay Loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2 4A, and 4B**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- X Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: STRR LLC Project Area | City/County: Teton | Sampling Date: 11/11/2024

Applicant/Owner: STRR LLC | State: ID | Sampling Point: SP7

Investigator(s): Chase Krumholz & Kent Werlin | Section, Township, Range: SEC 3 T05N R44E

Landform (hillside, terrace, etc.): Floodplain | Local relief (concave, convex, none): concave | Slope (%): 1

Subregion (LRR/MLRA): LRR E | Lat: 43.7831882139984 | Long: -111.25262051717 | Datum: NAD 83

Soil Map Unit Name: Badgerton-Arimo complex, 0 to 2 percent slopes | NWI classification: Upland

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 ____	No X	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site located on floodplain of creek.

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: 2 Meter)			
1. *Salix exigua*	70	Yes	FACW
2.			
3.			
4.			
5.			
	70 =Total Cover		
Herb Stratum (Plot size: 1 Meter)			
1. *Bromus inermis*	90	Yes	UPL
2. *Rosa woodsii*	10	No	FACU
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 ____

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	70	x 2 =	140
FAC species	0	x 3 =	0
FACU species	10	x 4 =	40
UPL species	90	x 5 =	450
Column Totals:	170 (A)		630 (B)
Prevalence Index = B/A =			3.71

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation
____ 2 - Dominance Test is >50%
____ 3 - Prevalence Index is ≤3.0[1]
____ 4 - Morphological Adaptations[1](Provide supporting data in Remarks or on a separate sheet)
____ 5 - Wetland Non-Vascular Plants[1]
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks:

SOIL

Sampling Point: SP7

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 3/2	95					Fine Sandy Loam	Fine Sandy Loam

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ 1 cm Muck (A9) **(LRR D, G)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR A, E)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators 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** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:

APPENDIX 4 – PHOTOGRAPHIC DOCUMENTATION

Photograph P1. Photograph depicting the topographic setting of sample point SP1, looking southeast.

Photograph P2. Photograph depicting the soil pit and profile for sample point SP1.

Photograph P3. Photograph depicting the topographic setting of sample point SP2, looking south.

Photograph P4. Photograph depicting the soil pit and profile for sample point SP2.

Photograph P5. Photograph depicting the topographic setting of sample point SP3, looking north.

Photograph P6. Photograph depicting the soil pit and profile for sample point SP3.

Photograph P7. Photograph depicting the topographic setting of sample point SP4, looking northeast.

Photograph P8. Photograph depicting the soil pit and profile for sample point SP4.

Photograph P9. Photograph depicting the topographic setting of sample point SP5, looking northeast.

Photograph P10. Photograph depicting the soil pit and profile for sample point SP5.

Photograph P11. Photograph depicting the topographic setting of sample point SP6, looking northeast.

Photograph P12. Photograph depicting the soil pit and profile for sample point SP6.

Photograph P13. Photograph depicting the topographic setting of sample point SP7, looking northeast.

Photograph P14. Photograph depicting the soil pit and profile for sample point SP7.

Photograph P15. Photograph depicting the view from photo point PP1, looking west.

Photograph P16. Photograph depicting the view from photo point PP2, looking west.

Photograph P17. Photograph depicting the view from photo point PP3, looking east.

Photograph P18. Photograph depicting the view from photo point PP4, looking west.

Photograph P19. Photograph depicting the view from photo point PP5, looking south.

Photograph P20. Photograph depicting the view from photo point PP6, looking south.

Photograph P21. Photograph depicting the view from photo point PP7, looking northwest.