# Hermiston Wetland and Natural Resource Inventory



# Prepared for

City of Hermiston, Oregon

# Prepared by

Schott and Associates, Inc. Aurora, Oregon

> Date: 2015 Project #: 2231

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# TABLE OF CONTENTS

1.0	INT	RODUCTION	1
1.1	l G	ENERAL DESCRIPTION OF THE STUDY AREA	1
2.0	PRO	OJECT METHODS	2
2.1	Pt	ublic Involvement	
2.2	2 Lo	OCAL WETLAND INVENTORY METHODS	2
2	2.2.1	Routine Off-site Determination	3
2	2.2.2	Routine On-site Determination	3
2.3	s W	ETLAND QUALITY ASSESSMENT	3
Ĺ	2.3.1	The Oregon Freshwater Assessment Methodology	3
2	2.3.2	Wetlands of Special Interest for Protection	4
2	2.3.3	Field Methods	4
2	2.3.4	Office Assessment	4
3.0 4.0		DDY AREA CHARACTERISTICS	
4.1	SE	ETTING	5
4.2	To	DPOGRAPHY	6
4.3	Н	YDROLOGY	6
4	4.3.1	Hydrologic Features of Study Area	6
4	.3.2	Watershed Designation	7
4	.3.3	Hydrologic Indicators	7
4.4	Sc	DILS	7
4.5	Vi	EGETATION	8
4	.5.1	Overview	8
4	.5.2	Vegetation Communities	8
4.	.5.3	Wetland and Upland Indicator Species	9
5.0	LWI	DISCUSIONS AND CONCLUSIONS	10
5.1	U.	S. Fish & Wildlife Service National Wetland Inventory	10
5.2		OCAL WETLAND INVENTORY RESULTS	
5.	2.1	Wetland Acreage and Distribution	10

5	.2.2	Wetland Classification	10
5.3	Or	REGON FRESHWATER ASSESSMENT METHODOLOGY RESULTS	11
5	.3.1	Wetlands of Special Interest for Protection	1
5	.3.2	Wetland Quality Assessment	I i
6.0	SIGN	NIFICANT WETLAND DETERMINATION	14
6.1	Lo	CALLY SIGNIFICANT WETLANDS CRITERIA	14
6.2		PLYING SIGNIFICANT WETLAND CRITERIA TO THE LWI STUDY AREA	
7.0	PRO	JECT SUMMARY	16
8.0	REF	ERENCES	18
		LIST OF TABLES	
		DERAL ENDANGERED SPECIES ACT STATUS OF FISH SPECIES FOUND IN THE HERMIS	
		SOILS MAPPED WITHIN CITY OF HERMISTON URBAN GROWTH BOUNDARY	
		FINITIONS OF INDICATOR STATUS	
TABLE	E 4. To	TAL AREA OF HERMISTON WETLANDS BY COWARDIN CLASSIFICATION	10
		WARDIN CLASSIFICATION OF HERMISTON WETLANDS	
		regon Freshwater Wetland Assessment Methodology Numerical Ranking	
		FWAM Numerical Ranking Results for Hermiston Local Wetlands Inven	
		ITERIA FOR DETERMINING LOCALLY SIGNIFICANT WETLANDS	
TABLE	9. Lc	CALLY SIGNIFICANT WETLANDS (LSW) IN HERMISTON LWI	16

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# TABLE OF APPENDICES

APPENDIX A: DEFINITIONS	
APPENDIX B: FIGURES	23
FIGURE 1. LOCATION MAP	24
FIGURE 2. FIELD MAPS	25
FIGURE 3. LOCAL WETLAND INVENTORY	26
APPENDIX C: WETLAND CHARACTERIZATION SHEETS	27
APPENDIX D: WETLAND DETERMINATION DATA FORMS	28
APPENDIX E: OFWAM DATA RESULTS	29
APPENDIX F: SIGNIFICANT WETLAND DETERMINATION SHEETS	30
APPENDIX G: STAFF QUALIFICATIONS	31

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#### 1.0 INTRODUCTION

In 2011 Schott and Associates was part of a team led by Johnson Reid LLC to conduct a Local Wetland Inventory as part of an update to the Hermiston Comprehensive Plans. The purpose of the inventory was to identify and asses the functions of wetlands to meet statewide Goal 5 and other planning responsibilities. The Hermiston study area was comprised of approximately 8,980.4 acres of land. Wetlands were identified according to criteria outlined in the 1987 Corps of Engineers Wetlands Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region.

The need for wetland planning is important as they are protected by state and federal laws. In Oregon, the Division of State Lands (DSL) regulates activities involving fill, removal, or alteration of material in wetlands or waterways. The U.S. Army Corps of Engineers (COE) regulates the discharge of dredged or fill materials into waters and adjacent wetlands of the United States under authority of Section 404 of the Clean Water Act (*Federal Register*, 1986). For purposes of state and federal permitting programs wetlands are defined as follows (*Federal register*, 1980, 1982):

Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Local Wetland Inventories are conducted in planning regions (e.g. city, county, rural service area) where site specific data suggests that wetlands may be present. For example, the National Wetland Inventory (NWI) indicated wetlands were present in the City of Hermiston. The Umatilla County Area Soil Survey (NRCS Web Soil Surveys) maps also indicate where hydric soils may be present. While these are reliable sources indicating the possible presence of wetlands, they are not suitable planning tools. The majority of the NWI mapping occurs via an on-screen mapping process that although incorporates numerous datasets, may not be accurate in all situations. Occasionally the NWI misses wetlands found in the field, or mapped areas that are not wetlands.

Objectives of this study were to:

- Provide current mapping of wetland boundaries at a scale suitable for planning
- Determine whether additional wetlands not mapped on the NWI are present
- Calculate the area of wetlands
- Assess wetland functions and values

#### 1.1 GENERAL DESCRIPTION OF THE STUDY AREA

The City of Hermiston study area comprises 8,980.4 acres of nearly level land, about 643 feet above sea level. Hermiston is located in northeastern Oregon in the northwest corner of Umatilla County near the junction of I-82 and I-84. Hermiston is located south of the Columbia River and adjacent east of the Umatilla River, with drainage generally west to the Umatilla River.

The inventory area consists of the urban growth boundary of the City of Hermiston. The region is flat and non-urban areas are generally farmed. Hermiston is known for its watermelon production.

In the Hermiston study area, approximately 120.30 acres of wetland were mapped. Wetlands were mapped according to the Cowardin classification. Two types were identified within the study area boundaries: palustrine emergent and palustrine forest wetlands. Water regime varied and included groundwater fed semi-permanently flooded/saturated wetlands. Most wetlands within the study area were associated with leakage from irrigation systems within the city.

Wetland quality was evaluated using the *Oregon Freshwater Assessment Methodology*. Habitat functions varied between the different wetlands, a good number of the wetlands have been affected by agriculture and water diversions due to the irrigation district.

The Umatilla River runs the length of the western border of the city. Associated wetlands scored higher on habitat functions due to their proximity to the river.

#### 2.0 PROJECT METHODS

#### 2.1 PUBLIC INVOLVEMENT

The initial inventory was based nearly entirely on aerial photograph interpretation. The results of the aerial photograph interpretation were used to identify any property owner which had wetlands or waters of the state on or adjacent to their property. In 2011, the City notified the public by notices in the local paper and direct mail requesting site access by appointment to conduct an on the ground inventory. The City of Hermiston compiled a list of tax lots where the property owners had granted or denied access. A photo base map with tax lot boundaries was used by Dr. Martin Schott during the inventory. The intent was to separate the wetland special images associated with irrigation from actual wetlands. Upon completion of the field work and mapping, the City again notified the property owners with mapped wetlands and waters of the State. The results were presented to both the City Council and the public. After the presentation the public was invited to ask questions and provide comments.

#### 2.2 LOCAL WETLAND INVENTORY METHODS

The initial phase of the inventory consisted of a review of information including maps and city boundaries. Prior to visiting the site information was gathered and examined for indications that jurisdictional wetlands may exist on the project site. Recent and aerial photographs provided by Google Earth were reviewed to determine the projected presence of wetlands. The Oregon Department of State Lands was contacted to gather any previous wetland determinations or delineations within project area boundaries. Additionally, the National Wetland Inventory (NWI) map was generated using the U.S. Fish and Wildlife Service Wetland Mapper. Due to the Umatilla River presence along the western boundary of the city the 100 year floodplain was also identified. Finally, a review of soils was performed by accessing the online soils map generated using the Natural Resources Conservation Service (NRCS) to identify hydric soils information.

A three day site visit in the second week of July 2012 was conducted to inventory the wetlands. All the properties where access was granted were visited, a wetland determination was made and the wetland boundaries were mapped on aerial photographs. Properties where access was not granted were viewed, if possible, from public roads, or across property lines where access had been granted.

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Several potential wetlands were not visible, where access had not been granted so these were identified by spectral images.

Four wetlands were identified as less than 0.50 acres in size and where coded as "PW" (potential wetland), no further characterization or assessment was required for these areas (OAR 141-86-0210(11)). All wetlands larger than 0.50 acres in size were identified and mapped as polygons to the best extent possible. Characterization and assessment forms for each wetland are attached in the Appendices of the LWI.

The wetlands mapped on the aerial photographs were digitized into GIS by Real Geographic's, a cartography company.

### 2.2.1 Routine Off-site Determination

Off-site determinations were conducted where landowners denied access. Off-site wetland identification involved mapping wetlands on aerial photos without field verified sample plots. In this study, the investigator was able to view some of the wetlands where access was denied from public roads. Ground-truthing areas of restricted access was done by nearby viewing and interpretation based on photo signatures of adjacent wetlands. Additional information was gathered including USGS topographic maps, NRCS soil surveys and National Wetland Inventory maps.

#### 2.2.2 Routine On-site Determination

The field study was completed by Dr. Martin Schott, Ph.D., PWS. As allowed on properties Schott initially walked the site to assess the presence or absence of onsite wetlands and waters prior to collecting data. The 1987 Manual and Regional Supplement to the Corps of Engineers Delineation Manual: Arid West Region were used to determine the presence or absence of State of Oregon wetland boundaries and Federal jurisdictional wetlands. The manuals require independent evidence of three parameters for an area to be declared as wetland: hydric soils, hydrophytic vegetation, and wetland hydrology. Sample plots were located in areas indentified during the site walk over which had the greatest potential to be wetlands. If the sample plot met the three criteria an adjacent sample plot was established in the adjacent upland. For each sample plot, data of vegetation, hydrology, and soils were collected, recorded in the field, and later transferred to data forms (Appendix: B).

Wetlands were mapped in the field on aerial photographs. Mapping was conducted by Dr. Martin Schott and transferred to maps by Justin Healy at Real Geographic's LLC.

#### 2.3 WETLAND QUALITY ASSESSMENT

# 2.3.1 The Oregon Freshwater Assessment Methodology

The *Oregon Freshwater Assessment Methodology* (OFWAM) (Roth et al. 1996) was used to assess the functions and conditions of the wetlands. This method provides standards for rating 9 categories: wildlife habitat, fish habitat, water quality, hydrologic control, sensitivity to impact, enhancement potential, education, recreation and aesthetic quality. Factors such as size of wetland, structural and biological diversity, presence of rare or endangered species, land-use, and access are used in the rating



system. Data from field notes, referencing aerial photographs, and information gathered from public agencies were used to complete the wetland assessment.

# 2.3.2 Wetlands of Special Interest for Protection

A series of ten questions are provided in the OFWAM. A "yes" answer to any of the ten questions may place the wetland into the "special interest for protection" category. Any wetlands that fell in this category are indicated on the wetland characterization sheet.

#### 2.3.3 Field Methods

Field work methods included collecting pertinent information on each wetland identified either onsite or offsite to determine boundaries for the LWI. Data collected was applied to the Wetland Characterization forms for the OFWAM. Information included general delineation information, Cowardin classes, wetland disturbances, hydrology sources, and habitat features beneficial to wildlife. Habitat features included presence of wildlife or fish, degree of vegetation cover, and presence of large woody debris and habitat function.

Off-site determinations were based largely on aerial photography. Visual confirmation from nearby viewing areas was confirmed to the extent practicable.

# 2.3.4 Office Assessment

Data collected in the field was used to answer questions for each function and condition of the wetland under the OFWAM assessment. Additional information regarding wetlands and landscape setting were gathered in the office. Relevant agencies such as U.S. Fish and Wildlife Service, Oregon Department of Fish & Wildlife and Oregon Department of Quality were contacted to obtain pertinent information for the OFWAM assessment questions. Spreadsheets were used to summarize the data.

Fish Habitat: U.S. Fish and Wildlife website offers an Information, Planning, and Conservation (IPaC) interactive webpage as a resource to gather Endangered Species Act species list. Two fish species were listed to be threatened.

Table 1. Federal Endangered Species Act Status of Fish Species Found in the Hermiston Area

Species	Scientific Name	Population	Status	Contact
Bull Trout	Salvelinus confluentus	Lower 48, USA	Threatened	Oregon Department of Fish & Wildlife
Steelhead	Oncorhynchus(=salmo) mykiss)	Middle Columbia River	Threatened	USFWS

Water Quality: According to the Oregon Department of Environmental Quality 2010 Integrated Report the Umatilla River is listed as water quality limited on the 303(d) list. The Umatilla and Columbia River confluence is just northwest of the City of Hermiston. Approximate Umatilla River miles 5 through 10 run along the western border of the city. As per the DEQ 303 (d) list miles 0-32 where referenced and listed as water quality limited for ammonia, flow modification, habitat modification, iron, and Manganese.



Floodplains: The Umatilla River runs along the western boundary of Hermiston. A 100-year flood plain was mapped along the river.

Land Use: Outside of the City, the majority of the land is undeveloped or used for agricultural purposes. Adjacent to the Umatilla River along the western border of the study area land use was predominantly pasture land or open space.

#### 3.0 CARTOGRAPHY

Justin Healy, of Real Geographic's originally digitized wetland and sample plot locations from field maps provided by Schott & Associates. Data was digitized using aerial photography and tax lot data with ESRI ArcGIS software. Locations of wetlands and sample plots were reviewed and verified by Schott and Associates. Christine Maynard of Cafferata Consulting completed all subsequent GIS work, including creation of the following GIS files (in ESRI Shapefile format): artificial wetlands, probable wetlands, streams, and major roads. Cafferata Consulting was also responsible for project cartography and completion of digital data attributes, per DSL requirements. The stream layer was created using a combination of field-delineated waters features (as observed by Schott & Associates), and those mapped by the National Hydrography Dataset (NHD) Umatilla County streams layer (NRCS 2012). Major roads were created using digital data from the Oregon Department of Transportation (2012).

# 4.0 STUDY AREA CHARACTERISTICS

#### 4.1 SETTING

Hermiston is located south of the Columbia River, north of Interstate 84 and east of the Umatilla River. More specifically, the northern urban growth boundary is defined by E. Punkin Center Road. The eastern boundary is defined by Ott Road, the western Boundary is defined by the Umatilla River. The southern boundary is roughly defined by W Feedville Road. There is a large area where the A line Canal and Maxwell Canal run, north of W. Feedville Road, which is outside the urban growth boundary.

Hermiston is within the Umatilla Drainage Basin and includes 2 watershed (6<sup>th</sup> Field HUC) areas. The Hermiston Ditch-Umatilla River (17070131305) consists of 5,418.8 acres and the Umatilla River (170701031306) 3,518.8 acres within the Hermiston UGB. Geologically it was within the area flooded during the Missoula floods. Hermiston Butte is a basalt dike, which shows evidence of the Missoula flood events. The soils in the area are mostly sandy loams.

The climate is arid to semi arid and the City receives approximately 9.41 inches of precipitation a year. The City receives an average of 10 inches of snow a year. The average high temperature occurs during the July/August period, and is 90.1 F. The average low occurs in January and is 23.9 F.

#### 4.2 TOPOGRAPHY

The topography of Hermiston and its Urban Growth Boundary is nearly flat for most of the area and generally slopes west toward the Umatilla River. There are some gentle ridges and shallow valleys in places along the Umatilla River. These are probably remnants from old geological river channels. There is an upper terrace along much of the southern portion of the area. There is one basalt intrusion, which has nearly vertical side slopes. There are some steep slopes associated with the Umatilla River.

#### 4.3 HYDROLOGY

# 4.3.1 Hydrologic Features of Study Area

The Oregon Water Resources Department indicates that the City of Hermiston is within the Umatilla drainage basin. The Umatilla River occupies the western border of the city. The Hermiston Irrigation District reports 90 miles of canals, ditches and drainages. There are five irrigation canals that cross within the study area: A Line Canal, Maxwell Canal, Feed Canal, I Canal, and M Canal. Associated with the irrigation canals are two drains, the Hermiston Drain and Feed Canal that carry irrigation runoff to the Umatilla River. Four of the irrigation canals are operated by the Bureau of Reclamation, as are the two drains. The fifth irrigation canal is privately owned. The normal irrigation season for the Hermiston Irrigation District is April 1<sup>st</sup> to October 1<sup>st</sup> each year.

Cold Springs Reservoir is located east of the City and receives water from the Columbia River and supplies water to the irrigation canals. The natural drainage from the reservoir drains to the northwest, north of the city. However, due to irrigation runoff there is an artificial drainage to the west of the reservoir. This drainage is called the Hermiston Drain. The Hermiston Drain splits just to the east of the study area resulting in two drainages through Hermiston. The northern drainage is the Hermiston Drain; the southern drainage is mostly culverted with sections of open channel. It carries irrigation runoff from properties to the south. Several catch basins were observed along Highland which connected to this drain.

In most areas July is not an ideal time to conduct wetland determinations as the dry season has already begun. However, since the Hermiston area averages only 9.41 inches of precipitation a year and receives approximately 3.11 inches from the 1<sup>st</sup> of the year to the start of the growing season, rainfall has minimal direct effect on wetlands. Most wetlands in the region that are not associated with rivers or streams are associated with irrigation. Most of the wetlands are directly associated to drainages, leakage from the irrigation canals or the Umatilla River. As such, the maximum hydrology in most of the wetlands occurs after the irrigation season has begun.

The soils in the area are mostly sandy loams and drain rapidly. In addition, there is a high evaporation rate in the region due to the very dry conditions. The combination of the low rainfall and the high evaporation rate suggests that rainfall has little to do with the hydrology of the wetlands.

Irrigation combined with the sandy nature of the soils appears to be the primary cause of the high water table in the Hermiston area. There are several examples which lend credence to this idea. Years ago Wetlands C and D used to be ponds. The City was considering acquiring the property for a park, but when the Bureau of Reclamation deepened a portion of the Hermiston drain, the ponds partially

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dried out. The wetlands are marshes, but there isn't enough water seeping out of the drain to pond the wetlands. Another piece of evidence to support this contention is Wetland A. Prior to the start of the irrigation season this wetland had no standing water. Two weeks after the irrigation started there was standing water in the wetland (personal observations).

The riparian areas were defined as the 100 year floodplain along the Umatilla River. Along the river much of the riparian area is dominated by cottonwoods and Russian olive. Some of the 100 year floodplain is being, or was used for agriculture. Most of the agriculture appeared to consist of grazing of livestock. The riparian areas of the wetlands located above the 100 year floodplain often consisted of Russian olives or grazed grasses and is in some places desert like vegetation.

There is no riparian area associated with either of the two drains. These two drainages are managed by the Bureau of Reclamation and the City did not want to restrict the Bureau's ability to maintain these drainages. The Bureau has periodically done maintenance on these drainages to prevent localized flooding. Both drains are channelized. Sections of the Hermiston drain have been enlarged and deepened where there have been past flooding problems, and sections of the drains have been culverted. In addition, the Bureau had been repairing leaks in the irrigation canals.

# 4.3.2 Watershed Designation

The entire study area is within the Umatilla River basin. The Hermiston Ditch-Umatilla River watershed starts just west of Cold Springs Reservoir and extends west into the eastern half of the study area; approximately 5,418.8 acres are within the defined study area. The Umatilla River Watershed occupies the western half of the study area, comprising of approximately 3,518.8 acres.

# 4.3.3 Hydrologic Indicators

Wetlands, by their very name, must have water. Jurisdictional wetlands are characterized as having permanent or periodic inundation, or soil saturation for five percent or more of the growing season. Saturation occurs when capillary fringe is within the major portion of the root zone (usually within 12 inches of the surface). Areas meeting one of these criteria are considered to have wetland hydrology.

Ponding or soil saturation for five percent or more of the growing season during the growing season is direct evidence of wetland hydrology. Bare soil and dried algae are evidence that a site was previously inundated. Oxidized rhizospheres along live root channels also indicate soil saturation for five percent or more of the growing season. At each sample plot, wetland hydrology was assumed if positive indicators were present. Assumptions were made for off-site wetlands based on aerial images, topography, soils and vegetation.

#### 4.4 SOILS

Hydric soils are soils that are saturated, inundated, or flooded long enough during the growing season to create anaerobic conditions that favor the growth of hydrophytic vegetation. Soils were mapped within the study area using the Natural Resources Conservation Services Web Soil Survey. Table 1 lists the soil series, soil name, slope, and hydric status.

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Table 2. Soils Mapped Within City of Hermiston Urban Growth Boundary.

Soil Series	Soil Name	Slopes	Hydric	
1B	Adkins fine sandy loam	0-5	No	
2B	Adkins fine sandy loam, gravelly	0-5	No	
	substratum			
2C	Adkins fine sandy loam, gravelly	5-25	No	
	substratum			
3A.	Adkins fine sandy loam	0-3	No	
<b>3C</b>	Adkins fine sandy loam, wet	3-15	No	
4B	Adkins-urban land complex	0-5	No	
14B	Burbank loamy fine sand	0-5	No	
27A	Esquatzel silt loam	0-3	No	
70	Pits, gravel		No	5
74B	Quincy find sand	0-5	No	
75B	Quincy loamy fine sand	0-5	No	
75E	Quincy loamy fine sand	5-25	No	
76B	Quincy loamy fine sand, gravelly	0-5	No	. •
	substratum			
78B	Quincy-Rock outcrop complex	1-20	No	
85F	Rock oucrop-Xeric Torriorthents	10-70	No	
	complex			
95B	Taunton fine sandy loam	1-7	No	
96B	Taunton silt loam	1-7	No	
119A	Wanser loamy fine sand	0-3	Yes	
122B	Winchester sand	0-5	No	
124B	Winchester-urban land complex	0-5	No	
126A	Xerofluvents	0-3	No	1

#### 4.5 VEGETATION

#### 4.5.1 Overview

Hermiston is located within an arid to semi arid climate. The topography of Hermiston is generally flat and generally slopes west toward the Umatilla River. A large portion of Hermiston is urban development including residential housing and commercial properties. Undeveloped areas include unused open space and agricultural land. Due to limited on-site access vegetation communities were based predominantly off aerial photographs. Open space and agricultural properties were dominated by herbaceous species. Russian olive was predominant among many of the wetland associated sites. Forested areas were present surrounding the Umatilla River.

#### 4.5.2 Vegetation Communities

Two wetland vegetation communities based on Cowardin classifications, including Palustrine Forested and Palustrine emergent wetlands, were documented within the study area. These classifications are summarized below.

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- Palustrine Forested Wetlands (PFO)
   Forested wetlands were predominantly associated with the Hermiston River. The predominant tree cover was cottonwood located in narrow bands along reaches of the river. Russian olives tended to occur above the cottonwood band of trees. PFO wetlands can provide high quality habitat for wildlife.
- Palustrine Emergent Wetlands (PEM)
   Emergent wetlands are characterized by herbaceous vegetation including cattails and grasses.
   Hermiston is an arid to semi-arid environment with a large portion within the UGB dominated by agricultural practices. PEM wetlands identified were often associated with agricultural irrigated fields or irrigation canals and were present as wet meadows.

Riparian was absent within the Hermiston UGB. No streams were identified outside of the Umatilla River, irrigation canals and drains.

# 4.5.3 Wetland and Upland Indicator Species

Plants specifically adapted for life under saturated or anaerobic conditions are commonly referred to as hydrophytic vegetation. The U.S. Fish and Wildlife Service in cooperation with the National and Regional Interagency Review Panels publish regional lists estimating the probability of plant species' occurrence in wetlands. Each plant species is given an *indicator status* which represents the likelihood that it will be found in a wetland. Plant communities dominated by OBL, FACW, or FAC species indicate the presence of wetland vegetation. Categories are defined in Table 2.

**Table 3. Definitions of Indicator Status** 

Indicator Symbol	Definition
OBL	Obligate. Species that occur in wetlands under natural conditions with an
	estimated probability of greater than 99%.
FACW	Facultative wetland. Species that usually occur in wetlands (estimated probably
	67-99%), but occasionally are found in non-wetlands.
FAC	Facultative. Species that are equally likely to occur in wetlands or non-wetlands
	(estimated probability 34-66%).
FACU	Facultative upland. Species that usually occur in non-wetlands (estimated
	probability 67-99%), but occasionally are found in wetlands.
UPL	Upland. Species that occur in non-wetlands under natural conditions with an
	estimated probability of greater than 99%.
NI	No indicator. Species for which insufficient information was available to
	determine an indicator status.

Sources: Federal Interagency Committee for Wetland Delineation, 1989. Environmental Laboratory, 1987. Reed, 1998.

# 5.0 LWI DISCUSIONS AND CONCLUSIONS

# 5.1 U.S. FISH & WILDLIFE SERVICE NATIONAL WETLAND INVENTORY

Beginning in the 1970's the U.S. Fish & Wildlife Service has been producing wetland maps and geospatial wetland data to provide to the public for the purpose of providing information regarding the distribution of wetlands and to aid in wetland conservation efforts. An overlay of the NWI was placed on field maps to be referenced throughout field investigations.

# 5.2 LOCAL WETLAND INVENTORY RESULTS

# 5.2.1 Wetland Acreage and Distribution

A total of 22 wetlands were identified during the LWI with a total of 120.30 acres. The Hermiston Ditch-Umatilla River watershed had 48 percent of the wetlands within the study area. The Umatilla River watershed contained the remaining 52 percent. See Figure 3 Local Wetland Inventory Maps.

# 5.2.2 Wetland Classification

Wetlands were classified using the Cowardin system. Palustrine Forested (PFO) and Palustrine Emergent Wetlands (PEM) were identified within the project boundaries. Table 4 is a summary of wetland classifications for the LWI; this is further broken down into classifications for each wetland as necessary in Table 5.

Table 4. Total area of Hermiston wetlands by Cowardin Classification.

Wetland Classification	Area (acres)	Percent
Palustrine Forested Wetland (PFO)	72.41	60
Palustrine Scrub/shrub Wetland (PSS)	N/A	N/A
Palustrine Emergent Wetland (PEM)	46.50	39
Open Water	1.37	1
Total	120.30	100

Table 5. Cowardin classification of Hermiston Wetlands.

Wetland	USFWS Wetland Classification				787 . 3 A	
Wenand	PFO	PSS	PEM	OW	Total Acreage	
A			2.61		2.61	
В			6.11		6.11	
C			12.77		12.77	
D	2.02		5.75		7.77	
E1	11.51		1.29		12.8	
E2	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		2.12		2.12	
F1	14.68				14.68	
F2	26.07		6.37		32.44	

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G			5.16		5.16
I	3.54				3.54
K			1.44		1.44
L	0.96				0.96
O	1.04				1.04
Q	1.01				1.01
R	0.70				0.70
S	4.23				4.23
Т	0.97		0.76		1.73
$\mathbf{U}$			1.11		1.11
W	0.89				0.89
$\mathbf{X}$	2.98				2.98
Y	0.81			1.37	2.18
Z	1.00		1.01		2.01
Total	72.41	0	46.5	1.37	120.30

# 5.3 OREGON FRESHWATER ASSESSMENT METHODOLOGY RESULTS

### 5.3.1 Wetlands of Special Interest for Protection

As part of the OFWAM, each identified wetland was analyzed to determine if it was an uncommon wetland, under a management plan or protected by regulatory rules or statutes. A series of ten questions were applied to each wetland to evaluate if the wetland was determined to be a wetland of special interest. Any questions with an answer of "yes" indicated the wetland to be placed under the special interests category. Wetlands E1, F2, Q, R, S, T U, X and Z have been identified as wetlands of special interest for protection due to their close vicinity with the Umatilla River.

# 5.3.2 Wetland Quality Assessment

As per section 2.3, the OFWAM was used to asses 6 functions and 3 conditions regarding the quality of each individually identified wetland. The results for each of the wetlands can be found in Appendix E.

To compare results of the OFWAM assessment Table 6 has been created assigning a numerical value to each of the assessment criteria. Number 1 was assigned to wetlands with intact or diverse function or conditions; a number 2 identifies impacted/degraded moderate potential for functions or conditions. Number 3 represents the lowest result of lost/not present or not appropriate for wetland functions or conditions. A number of wetlands had functions or conditions that were not applicable such as fish habitat in areas with no likelihood of containing fish. Additionally, site access was not available for all identified wetlands and in these cases certain qualities of the assessment were not applicable. Table 7 shows the results comparing all wetlands and their assigned assessment values.

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Table 6. Oregon Freshwater Wetland Assessment Methodology Numerical Ranking

Table 6. Oregon	er e	eshwater Wetland Assessment Methodology Numerical Ranking
	1	Wetland provides diverse wildlife habitat.
Wildlife Habitat	2	
	3	Wetland does not provide wildlife habitat.
	1	Wetland's fish habitat function is intact.
Fish Habitat	2	Wetland's fish habitat function is impacted or degraded.
	3	Wetland's fish habitat function is lost or not present.
	1	Wetland's water-quality function is inctact.
Water quality	2	Wetland's water-quality function is impacted or degraded.
	3	Wetland's water-quality function is lost or not present.
Trade to the	Ī	Wetland's hydrologic control is intact.
Hydrologic Control	2	Wetland's hydrologic control is impacted or degraded.
Control	3	Wetland's hydrologic control is lost or not present.
	1	Wetland is senstive to future impacts.
Sensitivity to Impact	2	Wetland is potentially sensitive to future impacts.
impaci	3	Wetland is not senstive to future impacts.
Enhancement	1	Wetland has high enhancement potential.
Potential	2	Wetland has moderate potential for enhancement.
roighnaí	3	Wetland has little enhancement potential.
	1	Wetland has educational uses.
Education	2	Wetland has potential for educational use.
	3	Wetland is not appropriate for educational use.
	1	Wetland provides recreational opportunities.
Recreation	2	Wetland has the potential to provide recreational opportunities.
	3	Wetland is not appropriate for or not does provide recreational opportunities.
	1	Wetland is considered pleasing.
Aesthetic Quality	2	Wetland is considered to be moderately pleasing.
	3	Wetland is not pleasing.



Table 7. OFWAM Numerical Ranking Results for Hermiston Local Wetlands Inventory.

		<b>.</b>					T	T	7			-	north Company	nametakaan	oo panana	**********		T	T	T	ACTION COVE	
Size	7.61	6.11	10.77	7 777	0 C1	0.71	14.68	32.37	5.16	3.54	1 44	96.0	1.04	0.7	4.23	1.73		0.89	2.99	2.18	1.01	000
Aestheic Quality	N/A	N/A	17/1/1		7	1 0	2	1 -	1	2	2	2	2	2	7		2	2	2	2	3	٠
Recreation	3	3	'n		) (	) C	3	1	3	3	3	Ç	c	2	2	2	2	3	3	3	3	
Education	3	3	) (C	, "	3	, ,	3		3	n	3	3	n	3	3	Ж	3	3	8	c	c	-
Enhancement Potential	_				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2		2	2	-	<b>,</b>		*******		frank	<b>*****</b>	<del></del> 1	<b>,</b>			
Sensitivity to Impact	2	2	2	2	 		-		2	2	2	2	2	2		1	2	2	7	2	2	
Hydrologic Control	2	2	2	2		3	2		2	2	2	7	2	2	2	<b></b>	2	1	1		2	(
Water Quality	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Ci	2	2	2	2	,
Fish Habitat	N/A	N/A	N/A	N/A	2	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	2	2	2	C1	N/A	N/A	2	2	c
Wildlife Habitat	2	7	2	7	2	2	2	2	7	2	C-1	2	2	2	2	7	CI.	2	2	2	2	c
Wetland Code	A	В	С	Q	E1	E2	F1	.F2	Ŋ		X	T	0	R	S	Ľ	ח	W	×	>	0	1

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Page 13
S&A Project # 2231

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All 22 wetlands identified during the LWI provided habitat for some wildlife species. The majority of the wetlands had one or more Cowardin class, was adjacent open space, had adequate buffers, had surface water connection or was within a 3 mile radius of other wetlands.

Fish habitat function was not applicable (N/A) for 13 of the 22 (59%) wetlands due to the lack of water or connection to waters suitable for fish. The remaining 9 (41%) wetlands that were assessed for fish habitat were located in the western portion of the Hermiston LWI within the vicinity of the Umatilla River (E1, F2, R, S, T, U, Y, Q and Z). All wetlands identified as possibly having fish habitat were deemed impacted or degraded.

Water quality for all assessed wetlands was determined to be impacted or degraded. In large part this is due to irrigation drains or water-quality limited associations. The drains receive irrigation runoff, which comes from irrigated farm fields, or livestock pastures. As such the water is anticipated to be nutrient rich, and have warm temperatures.

Hydrologic control for 6 (27%) (E1, F2, T, W, X, Y) of the wetlands was intact, leaving the remaining 15 (73%) of wetlands with impacted or degraded hydrologic control. Only wetland E2 had lost its hydrologic control.

Only 2 (0.09%) (F2, Z) of the wetlands provided educational uses. These properties were open to the public. The remaining 20 (0.91%) of the wetlands were not appropriate for educational use. The majorities of the wetlands (73%) were not appropriate or did not provide recreational opportunity due to lack of public access or safety concerns. Four of the wetlands (18%) (R,S, T, U) provided some recreational opportunity, and 2 (F2, Z) wetlands located on public land provided recreational opportunities.

Aesthetic quality in large part was determined by the presence of noise or roads within the vicinity. Two wetlands were not applicable as there was no viewing area to observe from (A, B). Additionally, some speculation was made regarding aesthetic quality based on aerial imagery.

#### 6.0 SIGNIFICANT WETLAND DETERMINATION

#### 6.1 LOCALLY SIGNIFICANT WETLANDS CRITERIA

The Department of Land Conservation and Development (DLCD) and the Department of State Lands (DSL) developed specific requirements to meet statewide planning goals 5. Goal 5 addresses the protection of natural resources, scenic and historic areas, and open spaces (OAR 660-015-0000(5)). Resources include riparian corridors, wetlands, wildlife habitat, rivers, trails, and resource areas. Cities must develop and adopt a Local Wetland Inventory to identify and assess the function and conditions of wetlands. OAR 141-086-0300 directs procedures for determining if wetlands meet the requirements to be "significant wetlands." Table 8 describes criteria that must be met to be a "significant wetland."

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Locally Significant Wetland Criteria (ORS 141-086-0350)  Exclusions: Wetland cannot be designated as locally significant if the answer to any of the criteria is "Yes".  Is the wetland artificially created from upland and:  a. Created for the purpose of controlling, storing, or maintaining stormwater  b. Active surface mining or active log ponds  c. Ditches without a free and open connection to natural waters of the state and	YES	NC
of the criteria is "Yes".  Is the wetland artificially created from upland and:  a. Created for the purpose of controlling, storing, or maintaining stormwater  b. Active surface mining or active log ponds  c. Ditches without a free and open connection to natural waters of the state and	YES	NC
<ul> <li>a. Created for the purpose of controlling, storing, or maintaining stormwater</li> <li>b. Active surface mining or active log ponds</li> <li>c. Ditches without a free and open connection to natural waters of the state and</li> </ul>		
<ul> <li>a. Created for the purpose of controlling, storing, or maintaining stormwater</li> <li>b. Active surface mining or active log ponds</li> <li>c. Ditches without a free and open connection to natural waters of the state and</li> </ul>		
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish		
d. Less than one acre in size and created unintentionally as the result of irrigation or construction		
e. Created for the purpose of wastewater treatment, cranberry production, farm		
or stock watering, settling of sediment, cooling industrial water, or a golf course hazard		
Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes per the conditions of OR141-086-0350 1(b)		
Exclusion criteria satisfied?		1
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets		
one or more of the criteria listed below (using the OFWAM criteria).	YES	NO
1 Does the wetland provide diverse wildlife habitat?		
2 Is the wetland's fish habitat function intact?		***************************************
3 Is the wetland's water quality function intact?		
4 Is the wetland's hydrologic control function intact?		1
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?  6 Does the wetland contain rare plant communities?		-
		-
state listed sensitive, threatened or endangered?		
8 Does the wetland have direct surface water connection to stream segment mapped by ODFW as habitat for indigenous anadromous salmonids AND is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		
Mandatory Locally Significant Wetland criteria satisfied?		1
Optional Local Significant Wetland Criteria: Local governments may identify a		.1
vetland as significant if "yes" answered to any of the criteria below.	YES	NO
1 Does the wetland represent a locally unique native plant community AND provide diverse wildlife habitat or habitat for some species OR has and intact, or impacted or degraded fish habitat function OR has a intact, or impacted or degraded water quality function OR has a intact, or impacted or degraded hydrologic control function.	* *************************************	1110
Is the wetland publicly owned and used by a school or organization AND does the wetland provide <i>educational uses</i> ?		
Optional Locally Significant Wetland criteria satisfied?		-

# 6.2 APPLYING SIGNIFICANT WETLAND CRITERIA TO THE LWI STUDY AREA

All wetlands were summarized and analyzed using the OFWAM and finally the criteria for locally significant wetlands were applied (Appendix F). Table 9 displays the 9 out of 22 (41 %) wetlands that fit the criteria for significant wetlands.

Table 9. Locally Significant Wetlands (LSW) in Hermiston LWI

E1	F2	Q
R	S	Τ
U	X	Z

#### 7.0 PROJECT SUMMARY

In 2011 Schott and Associates was part of a team led by Johnson Reid LLC to conduct a Local Wetland Inventory as part of an update to the Hermiston Comprehensive Plans. The purpose of the inventory was to identify and asses the functions of wetlands to meet statewide Goal 5 and other planning responsibilities. Objectives of the study were to provide current mapping of wetland boundaries at a scale suitable for planning, determine whether additional wetlands not mapped on the NWI are present, calculate the area of wetlands and assess wetland functions and values.

Hermiston is located in northeastern Oregon in the northwest corner of Umatilla County, south of the Columbia River and adjacently east of the Umatilla River, with a drainage generally west to the Umatilla River. The Hermiston study area was comprised of approximately 8,980.4 acres of land. Wetlands were identified according to criteria outlined in the 1987 Corps of Engineers Wetlands Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region.

Field work was conducted in July 2012, identifying 22 wetlands comprising of approximately 120.30 acres identified by on-site and off-site investigations. Wetlands were mapped according to the Cowardin classification. Two types were identified within the study area boundaries: palustrine emergent (39%) and palustrine forest wetlands (60%). Additionally, 1 percent was documented as open water. Water regime varied and included groundwater fed semi-permanently flooded/saturated wetlands. Most wetlands within the study area were associated with leakage from irrigation systems within the city and proximity to the Umatilla River.

Wetland quality was evaluated using the *Oregon Freshwater Assessment Methodology*. All 22 provided habitat for some wildlife species. Only 9 (41%) (E1, F2, R, S, T, U, Y, Q, Z) of the wetlands were assessed for fish habitat due to their close proximity of the Umatilla River. All wetlands identified as possibly having fish habitat were deemed impacted or degraded. Water quality for all assessed wetlands was determined to be impacted or degraded. In large part this is due to irrigation drains or water-quality limited associations.

Hydrologic control for 6 (27%) (E1, F2, T, W, X, Y) of the wetlands was intact, leaving the remaining 15 (73%) of wetlands with impacted or degraded hydrologic control. Only wetland E2 had lost its hydrologic control. The majority of the wetlands (90%) were not appropriate for educational use or recreational opportunity (73%) due to the lack of public access or safety concerns. Additionally, 9 of the 22 wetlands met the criteria for "wetlands of special interest for protection" under the OFWAM assessment (E1, F2, Q, R, S, T, U, X, and Z).

Wetlands were further evaluated to determine if they met criteria to be considered a Locally Significant Wetland. A total of 22 wetlands were identified and 9 (41%) (Same as "wetlands of special interest or protection") of the wetlands were determined to be Locally Significant Wetlands.

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Tax lot map: www.ormap.org

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#### APPENDIX A: DEFINITIONS

These definitions are provided in OAR 141-086-200 to help define terms used within the Hermiston Local Wetland Inventory.

#### Cowardin Wetland Classification

The wetland classification according to the U.S. Fish and Wildlife Service's "Classification of Wetlands and Deepwater Habitats of the United States," (Cowardin et al., 1979).

### DSL or "Department"

Means the Oregon Department of State Lands.

#### Georeferenced

Linking geographic data to known coordinates on the surface of the earth.

## "GIS" or "Geographic Information System"

A system of hardware, software and data storage that allows for the analysis and display of information that has been geographically referenced.

# Hydrogeomorphic (HGM) Wetland Classification

"HGM class and subclass" means the hydrogeomorphic classification of the wetland based upon its landscape position and hydrology characteristics, according to the HGM classification developed by the Department.

### **Hydrophytic Vegetation**

"Plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of exvessive water content." (National Resource Council, 1995).

#### Indicator

The soil, vegetation, and hydrology characteristics or other field evidence that indicate that wetlands are present.

## Inventory

A systematic survey of an area to identify, classify and map the approximate boundaries of wetlands, and includes the supporting documentation required by these rules.

## **Mapping**

Representing the identified wetlands and their approximate boundaries on a map.

#### Offsite Determination

A wetland determination conducted without field verification using NWI maps, soils maps, and aerial photographs.

#### Other Waters

Waters of the state other than wetlands, such as streams and non-vegetated ponds.

#### Probable Wetland or PW

An area noted during the course of LWI development that appears to meet wetland criteria but is less than one half of an acre in size or is small and of undetermined size, and is mapped as a point rather than a polygon on the LWI maps.

## Sample Plot

A specific area on the ground where soils, vegetation and hydrology data are recorded on a field data form per OAR 141-90-0035(14) in order to make a wetland determination.

## Statewide Wetlands Inventory or SWI

An inventory that contains at minimum the location, type (e.g. classification) and approximate extent of wetlands in the State of Oregon. This inventory is continually revised as additional information is received or obtained by the Department.

#### Stream

A watercourse created by natural processes, or one that would be in a natural state if it were not for human-caused alterations. Stream includes a channelized or relocated stream.

### Visually confirm or visual confirmation

To walk over and/or visually check an area to make a wetland determination and map wetlands and other waters.

#### Wetlands

Areas that are inundated or saturated by surface or ground water at a frequency or duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (ORS 196.800(16)).



## **Wetland Delineation Report**

A written document that contains the methods, data, conclusions and maps used to determine if wetlands and/or other waters of the state are present on a land parcel and, if so, describes and maps their location and geographic extent. A wetland determination report documenting wetland presence or absence is included within this definition (OAR 141-090 et seq.).

## Wetland Determination

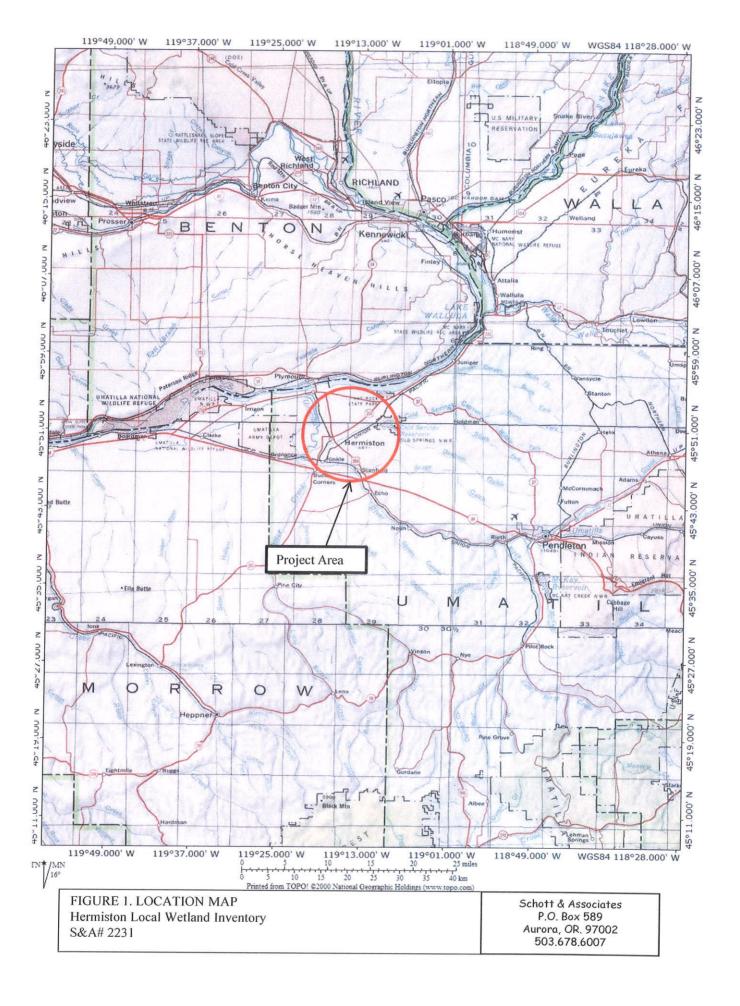
A decision that a site may, does, is unlikely to, or does not contain wetlands. A determination does not include the precise location or boundaries of any wetlands determined to be present (OAR 141-090 et seq).

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# **APPENDIX B: FIGURES**



# FIGURE 1. LOCATION MAP





# FIGURE 2. FIELD MAPS



# FIGURE 3. LOCAL WETLAND INVENTORY



# APPENDIX C: WETLAND CHARACTERIZATION SHEETS

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# Hermiston Local Wetland Inventory Wetland Characterization Sheet

Wetland Mapping Code:

2.61

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

Size (acres):

**PEM** 

**DCNP** 

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec. 2CD

Tax Lots:

Sec. 2CD TL #100

Other:

North E. Elm Ave., west of NE 4th St.

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Wanser loamy fine sand, 0 to 3 percent slopes

Hydrologic Source:

Seasonal high ground water table. The water table is probably high due to

leakage from the Hermiston Ditch, which is a little south of the wetland.

Vegetation

Off-site Determination. Wetland appeared to be dominated by grasses and grass-like species.

# Comments

Current Land Use:

This was an off-site determination, viewed from Tax Lot #200. The land use is open space, not being used for agricultural purposes. The wetland appeared to be in a depression. The hydrology most likely from a high water table due to leakage from the Hermiston Ditch, which is a little south of the wetland. The wetland is isolated. There is no apparent inlet, or outlet.

### Associated DSL WD Files:

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM=Palustrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI=River impounding	LFH=Lacustrine Fringe Headwater	LFV=Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO=Depressional outflow	DCP=Depressional Closed Permanent	
DCNP=Depressional Closed No	on-Permanent		

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# Hermiston Local Wetland Inventory Wetland Characterization Sheet

Wetland Mapping Code:

В

6.11

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

Size (acres):

PEM

**DCNP** 

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec. 2D

Tax Lots:

Sec. 2D TL #400

Other:

South of E. Theater Lane, and west of Vista Park Mobile Home Estate

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Wanser loamy fine sand, 0 to 3 percent slopes

Hydrologic Source:

The hydrology is probably due to a high water table. Which may or may not be related to irrigation. The City's map shows the M canal being just north of the wetland. The canal is no longer present, and has either been piped or filled.

## Vegetation

Off-site Determination. There was no view of this wetland. Appears to be dominated by emergent species.

#### Comments

Current Land Use:

This was an off-site determination. There was no view of this wetland, it looks to be open space. Based on aerial photographs the wetland appears to be a depression. The wetland appears isolated. There is no apparent inlet, or outlet.

Associated DSL WD Files:

WD2008-0255

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM®Palustrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI=River impounding	LFH=Lacustrine Fringe Headwater	LFV=Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO=Depressional outflow	DCP=Depressional Closed Permanent	
DCNP=Depressional Closed No	on-Permanent		

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	· .		

# Hermiston Local Wetland Inventory Wetland Characterization Sheet

Wetland Mapping Code:

С

Size (acres):

12.77

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

PEM

DCNP

Investigators:

MRS

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec. 11

Tax Lots:

Sec. 2D TL #500, 505

Other:

South of E Elm Avenue, between NE 4th Street and NE 10th Street

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Wanser loamy fine sand, 0 to 3 percent slopes

Hydrologic Source:

The hydrology is probably due leakage from the Hermiston drain. A portion of the drain has been piped by the Bureau of Reclamation, which has caused the

wetland to be drier. Prior to the piping the wetland was a pond.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

Typha latifolia

Broadleaf cattail

### Comments

#### Current Land Use:

Off-site Determination. This wetland is visible from E Elm Avenue. It is dominated by broadleaf cattail . Russian olive are around much of the edge of the wetland. Russian olives are a riparian species, rarely found growing in true wetlands. This wetland used to be significantly wetter. However, a portion of the Hermiston drain was piped causing the wetland to become drier. Land use appears to be open space.

#### Associated DSL WD Files:

DCNP=Depressional Closed Non-Permanent

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM=Palostrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI=River impounding	LFH=Lacustrine Fringe Headwater	LFV*Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO=Depressional outflow	DCP=Depressional Closed Permanent	

Wetland Mapping Code:

D

Size (acres):

7.77

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

PEM, PFO

**DCNP** 

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec. 11

Tax Lots:

Sec. 2D TL #500, 505

Other:

Wetland just south of Wetland C. South of E Elm Avenue, between NE 4th

Street and NE 10th Street

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Wanser loamy fine sand, 0 to 3 percent slopes

Hydrologic Source:

The hydrology is probably due leakage from the Hermiston drain. A portion of

the drain has been piped, which has caused the wetland to be drier.

# Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

Typha latifolia

Broadleaf cattail

Populus balsimifera

Cottonwood

# Comments

# Current Land Use:

Off-site Determination. This wetland is barely visible from E Elm Avenue. The wetland is just south of Wetland C. It is dominated by broadleaf cattail. Russian olive and a few cottonwood are around much of the edge of the wetland. Russian olives are a riparian species, rarely found growing in true wetlands. This wetland used to be significantly wetter. However, a portion of the Hermiston drain was piped causing the wetland to become drier. Appears to be open space.

### Associated DSL WD Files:

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM=Palustrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
R1=River impounding	LFH=Lacustrine Fringe Headwater	LFV=Lacustrine Fringe Valley	DB=Depressional Bog
DA∞Depressional Alkaline	DO=Depressional outflow	DCP=Depressional Closed Perma	nent

	1.	4	

Wetland Mapping Code:

EI

12.8

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

Size (acres):

PFO, PEM

**RFT** 

Investigators:

**MRS** 

Data Sheet Numbers:

7, 8, 27-32

Location

Legal:

T4N, R28E Sec. 4A0

Tax Lots:

TL# 400, 300, 500, 600, 1600, 1700, 800

Other:

North of Mconnell Ln and NW 15th St. corner. West of NW 11th St. East of

Umatilla River. Lower end of Hermiston drain.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Quincy loamy fine sand, 5-25 % slopes, Winchester sand, 0-6 % slopes

Hydrologic Source:

Wetland is located at lower end of Hermiston Drain, and along Umatilla River.

Hydrology associated with drain and river. The drain portion stays wet all summer, has a couple inches of water over most of the wetland. River portion is

associated with higher river flows and possible seeps and springs.

Vegetation

Trees/Shrubs

Herbs

Common Name

Scientific Elaeagnus angustolia Common Name

Typha latifolia

Scientific

Broadleaf cattail

Populus balsimifera

Russian Olive Cottonwood

Bulrush

Salix

Juncus balticus

Baltic Rush

Comments

# LOCALLY SIGNIFICANT WETLANDS Wetland of Special Interest

Current Land Use:

The portion along the river is within the 100 year flood plain. Land is owned by City of Hermiston. Open Space.

Associated DSL WD Files:

WD2009-0334

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP-Depressional Closed Permanent

Wetland Mapping Code:

E2

2.12

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

HGM Class(es):

PEM

21**71** 

RFT

Investigators:

MRS

Data Sheet Numbers:

Off-site

Location

Size (acres):

Legal:

T4N, R28E, Sec. 12A

Tax Lots:

Sec. 12A TL #702, 704, 1403, 1500, 1600, 1700, 1800, 1900, 1902, 2000, 2001.

2200

Other:

East end of Hermiston Drain, where it enters Hermiston's urban growth

boundary. West of Ott Road.

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Wanser loamy fine sand, 0 to 3 percent slopes

Hydrologic Source:

Hydrology from the Hermiston Drain going through middle of wetland. The

wetland is a low area adjacent to drain.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

Typha latifolia

Broadleaf cattail

# Comments

Current Land Use:

Off-site Determination. This wetland was viewed from Ott Road. Visible portion was dominated by broadleaf cattail. The north side was graded into the yard area for a house. The south side was bordered by Russian olive. Since the Hermiston Drain is a drain for irrigation water this wetland was probably the wettest during the irrigation months of April through October. Bureau of Reclamation is responsible for drain maintenance.

### Associated DSL WD Files:

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM≈estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM®Palustrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI=River impounding	LFH=Lacustrine Fringe Headwater	LFV=Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO∞Depressional outflow	DCP≈Depressional Closed Perma	nent

Wetland Mapping Code:

 $\mathbf{F}1$ 

Size (acres):

14.68

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

HGM Class(es):

**PFO** 

RFT

Investigators:

MRS

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec. 12A

Tax Lots:

Sec. 12A TL # 300, 302, 1300, 1304, 1400

Other:

East of S. Townsand Road where East Main St. T's into S. Townsand Rd.

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Adkins fine sandy loam, wet, 3 to 15 percent slopes

Hydrologic Source:

Wetland is within an irrigated pasture, appears to be associated with the

Hermiston Drain system.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

# Comments

# Current Land Use:

Off-site Determination. This wetland was partially viewed from S. Townsand Rd. Much of the mapped wetland may not be jurisdictional wetland, due to association with a drainage ditch. The spectral image on aerial photographs indicates it's a wetland, but irrigation produces essentially the same image as a true wetland.

# Associated DSL WD Files:

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS≕palustrine scrub/shrub	PEM=Palustrine emergent	POW≈palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI=River impounding	LFH=Lacustrine Fringe Headwater	LFV=Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO=Depressional outflow	DCP=Depressional Closed Perma	aenf

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Wetland Mapping Code:

F2

Size (acres):

32.37

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

PFO, PEM

**RFT** 

Investigators:

**MRS** 

Data Sheet Numbers:

45, 46, 9-12, 57, 59

Location

Legal:

T4N, R28E Sec. B000

Tax Lots:

TL# 8000, 8400, 8701, 9402, 9300, 8800, 8900, 9000, 1500

Other:

North of CO 1238 Rd, west of NW 13th St., East of Umatilla River

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Xerofluvents, 0-3 percent slopes.

Hydrologic Source:

Hermiston drain supplies much of the water for the wetland complex. The drain forks into two swales which drain to the river. Irrigation has been stopped to

much of the area, changing hydrology patterns.

Vegeta	tion
1 02 0 111	

Trees/Shrubs

Herbs

Common Name

Scientific Elaeagnus angustolia Populus balsimifera

Common Name Russian Olive

Scientific Typha latifolia

Broadleaf cattail

Cottonwood

Juncus balticus

Bulrush Baltic Rush

# Comments

# LOCALLY SIGNIFICANT WETLANDS Wetland of Special Interest

# Current Land Use:

Wetland complex has changed due to irrigation being stopped. Wetland has become smaller. Irigation ditches along top of low ridges appear to have been dry for the last couple summers. They are shallow swales between ridges, vegetation was wetland plants. In areas some plants had died due to lack of water. Appeared to be significantly less hydrology entering the swale than historically. This was based on conditions we observed and plant species within the swale. Property owned by Bureau of Reclamation.

#### Associated DSL WD Files:

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM=Palustrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine fringe Embayment	EFR=Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI≈River impounding	LFH=Lacustrine Fringe Headwater	LFV=Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO=Depressional outflow	DCP=Depressional Closed Permar	nent

Wetland Mapping Code:

G

5.16

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

Size (acres):

PEM

Slope

Investigators:

**MRS** 

**Data Sheet Numbers:** 

1, 2, 3, 4, 5, 6

Location

Legal:

T4N, R28E, Sec. 12D

Tax Lots:

TL # 190

Other:

Avril Lane

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Adkins fine sandy loam, wet, 3 to 15 percent slopes

Hydrologic Source:

This wetland forms immediately below the A-line Canal. Hydrology is most likely associated with the canal and irrigation. If the canal was lined, the wetland might become upland. Property owner stated a spring is on the property that

feeds part of wetland. Spring may be canal associated as well.

Vegetation

Trees/Shrubs Herbs Scientific Common Name Scientific Common Name Cynodon dactylon Bermuda Grass Juncus articus Artic Rush Agrostis stolonifera creeping Bent grass Trifolium repens White clover Holcus mollis Creeping soft grass

#### Comments

# Current Land Use:

Wetland forms immediately below the A-line Canal. Hydrology most likely associated with the canal and irrigation. However, the land owner mentioned a spring on the property, that fed part of the wetland. This could also be canal associated. The upper boundary of a portion of the wetland follows an irrigation ditch, it is essentially a straight line. Another irrigation ditch parallels the upper ditch. There are two small ponds on the property. They appears to have been constructed for cattle on the site. Cattle have trampled the irrigation ditches, causing spill over into a large area. Maintenance of irrigation ditches would probably reduce the size of the wetland.

#### Associated DSL WD Files:

COWARDIN CODES:	E2FO=estuarine forested	E2SS=estuarine scrub/shrub	E2EM=estuarine emergent
PFO=palustrine forested	PSS=palustrine scrub/shrub	PEM=Palustrine emergent	POW=palustrine open water
HGM CODES:	EFB=Estuarine Fringe Embayment	EFR∞Estuarine Fringe Riverine	RFT=Riverine Flow Through
RI=River impounding	LFH=Lacustrine Fringe Headwater	LFV≈Lacustrine Fringe Valley	DB=Depressional Bog
DA=Depressional Alkaline	DO=Depressional ontflow	DCP=Depressional Closed Perman	nent
DCNP≈Depressional Closed Non-Permanent		Slope	

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Wetland Mapping Code:

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3.54

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

Size (acres):

PFO

HGM Class(es):

Slope

Data Sheet Numbers: Off-site

Investigators:

MRS

Location

Legal:

T4N, R28E, Sec. 2CA

Tax Lots:

TL# 6400

Other:

Adjacent to the Maxwell Canal, west of Townsand Road and south of Hurlburt

Avenue. Wetland was viewed from Townsand Road.

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Adkins fine sandy loam, wet, 3 to 15 percent slopes

Hydrologic Source:

Due to close proximity of the Maxwell Canal, the hydrology for this wetland is

probably due to leakage from the canal.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

Typha latifolia

Broadleaf cattail

# Comments

Current Land Use:

Wetland was viewed from Townsand Road. A small portion of the wetland that was visible was dominated by cattails. Russian olives were adjacent to the cattails. Due to close proximity of the Maxwell Canal, the hydrology of the wetland is probably from leakage from the canal. Appears to be open space.

#### Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E288=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:
RI=River impounding

EFB=Estuarine Fringe Embayment LFH=Lacustrine Fringe Headwater

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

DA=Depressional Alkaline

DO=Depressional outflow

LFV\*\*Lacustrine Fringe Valley
DCP\*\*Depressional Closed Permanent

DB=Depressional Bog

DCNP=Depressional Closed Non-Permanent

Slope

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Wetland Mapping Code:

K

Size (acres):

1.44

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

PEM

HGM Class(es):

DCNP

Investigators:

MRS

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec. 13

Tax Lots:

TL# 100, 200

Other:

Between the airport and the A Line Canal

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Adkins fine sandy loam, 0 to 5 percent slopes

Quincy loamy fine sand, 5-25 percent slopes

Hydrologic Source:

Wetland appears to be created from leakage from US Feed Canal. No visible

connection to A Line Canal. No known connection to other water bodies.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

# Comments

### Current Land Use:

No visible access point for this wetland. Spectral images were used to identify features. Appears to be entirely man-made. It is located in the middle of an agricultural field.

# Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

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Wetland Mapping Code:

0.96

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

HGM Class(es):

Size (acres):

**DCP** 

Investigators:

MRS

Data Sheet Numbers:

Off-site

# Location

Legal:

T4N, R28E, Sec. 14DO

Tax Lots:

TL# Appears to be in a Railroad R/W

Other:

North of US Feed Canal and west of HWY 395

Watershed name:

Hermiston Ditch-Umatilla River (170701031305)

Soils

Mapped Series:

Adkins fine sandy loam, gravelly substratum 0 to 5 percent slopes

Hydrologic Source:

Irrigation runoff, or leakage from canal.

# Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

#### Comments

# Current Land Use:

No visible access/viewing point for this wetland. Wetland appears to be manmade. Formed at the toe of the railroad ballast. Small and isolated forested wetland.

# Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RlmRiver impounding

LFH=Lacustrine Fringe Headwater

LFV" Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

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Wetland Mapping Code:

Size (acres):

1.04

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es): HGM Class(es):

**PFO** 

**DCNP** 

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

#### Location

Legal:

T4N, R28E, Sec. 15

Tax Lots:

TL# 200

Other:

North of Maxwell Canal, east of where canal crosses the railroad.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Adkins fine sandy loam, gravelly substratrum 0 to 5 percent slopes

Hydologic Source:

Appears to be associated with irrigation canal.

# Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Populus balsimifera

Cottonwoods

# Comments

### Current Land Use:

No visible access/viewing point for this wetland. Apparent wetland consists of a narrow band of cottonwoods. The hydrology appears to be associated with the irrigation canal. This wetland may prove to be a false positive spectral image, and not actually be a wetland. Land use appears to be open space or agriculture.

#### Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM≈estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Emayment

EFR=Estuarine Fringe Riverine

RFT Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Finge Valley

DB∞Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

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Wetland Mapping Code:

Q

1.01

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

HGM Class(es):

Size (acres):

**PEM** 

RFT

Investigators:

**MRS** 

Data Sheet Numbers:

21, 22

Location

Legal:

T4N, R28E, Sec 1600

Tax Lots:

TL # 900, 1800

Other:

Minnehaha Spring, Just north of Minnehaha Rd, south of Umatilla River.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Quincy loamy fine sand, 0 to 25 percent slopes.

Hydrologic Source:

Perennial flow from spring. Wetland runs from where spring emerges to where it

connects to the Umatilla River.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Typha latifolia

Broadleaf cattail

Comments

LOCALLY SIGNIFICANT WETLANDS Wetland of Special Interest

Current Land Use:

Property owned by the city of Hermiston. Land is oppn space.

Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB≈Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP#Depressional Closed Permanent

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Wetland Mapping Code:

R

Size (acres):

0.7

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

HGM Class(es): Data Sheet Numbers: RFT

Off-site

Investigators:

**MRS** 

Location

Legal:

T4N, R28E, Sec 16

Tax Lots:

TL #3000

Other:

Southern bank of Umatilla River. North of Minnehaha Road, along western UGB

boundary.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Adkins fine sandy loam, gravelly substratrum 0 to 5 percent slopes

Hydrologic Source:

Riverine wetland located within the floodplain of the Umatilla River.

# Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Populus balsimifera

Cottonwoods

Comments	LOCALLY SIGNIFICANT WETLANDS	
Comments	Wetland of Special Interest	

### Current Land Use:

No visible access/viewing point for this wetland. Apparent wetland consists of a narrow band of cottonwoods. Wetland is Riverine and located within the floodplain of the Umatilla River. Land is open space.

#### Associated DSL WD Files:

COWARDIN CODES:

E2FO-estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrob/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estnarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Afkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

Wetland Mapping Code:

S

Size (acres):

4.23

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

**PFO** HGM Class(es):

RFT

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E, Sec 16D

Tax Lots:

TL # 1900

Other:

Eastern bank of Umatilla River. West of Rivercrest Ln.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Quincy Loamy Fine Sand, 5-25 percent slopes

Hydrologic Source:

Riverine wetland located within the floodplain of the Umatilla River. Hydrology

most likely from side slope seeps.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Populus balsimifera

Cottonwoods

Comments	LOCALLY SIGNIFICANT WETLANDS
Comments	Wetland of Special Interest

## Current Land Use:

No visible access/viewing point for this wetland. Apparent wetland consists of a narrow band of cottonwoods. Wetland is Riverine and located within the floodplain of the Umatilla River. Land appears to be open space.

#### Associated DSL WD Files:

COWARDIN CODES:

E2FO estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB∞Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

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Wetland Mapping Code:

Τ

1.73

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

PFO, PEM

HGM Class(es):

Size (acres):

RFT

Investigators:

MRS

Data Sheet Numbers: Off-site, had access to adjoining property. SP 23.

Location

Legal:

T4N, R28E, Sec 16BA

Tax Lots:

TL # 3000, 1300, 1401, 1400, 1500, 1600

Other:

Eastern bank of Umatilla River. South of W. Alleluia Ave.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Quincy Loamy Fine Sand, 5-25 percent slopes

Hydrologic Source:

Riverine wetland located within the floodplain of the Umatilla River. A portion

of wetland could be viewed from adjoining property. Water visible suggesting

seeps.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Populus balsimifera

Cottonwoods

Comments	LOCALLY SIGNIFICANT WETLANDS	
Comments	 Wetland of Special Interest	

Current Land Use:

Narrow band of cottonwoods. A portion of wetland could be viewed from an adjoining property, appeared to be water in the wetland. Appears to be open space.

### Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarme forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

R1=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

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Wetland Mapping Code:

Size (acres):

HGM Class(es):

1.11

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

PEM

RFT

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E Sec. B000

Tax Lots:

TL # 7300

Other:

Eastern bank of Umatilla River. Northwest of Riverfront Park.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Xerofluvents, 0-3 percent slopes.

Hydologic Source:

Riverine wetland located within the floodplain of the Umatilla River.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Populus balsimifera

Cottonwoods

Commonts	LOCALLY SIGNIFICANT WETLANDS	
Comments	Wetland of Special Interest	

### Current Land Use:

No visible access/viewing point for this wetland. Apparent wetland consists of a narrow band of cottonwoods. Wetland is Riverine and located within the floodplain of the Umatilla River. Appears to be open space via aerials.

#### Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Emayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Finge Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

	•	·.	•

Wetland Mapping Code:

W

Size (acres):

0.89

Date(es) of Fieldwork:

Cowardin Class(es):

**PFO** 

7/10/2012

HGM Class(es):

**DCNP** 

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E Sec.B000

Tax Lots:

TL # 1505

Other:

West of W Elm Ave, east of Umatilla River

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Xerofluvents, 0-3 percent slopes.

Hydrologic Source:

Hydrology appears to be from irrigation runoff.

# Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

# Comments

Current Land Use:

No visible access/viewing point for this wetland. Aerial photographs were referenced. Area appears to be dominated by Russian ofives. Area appears to be open space via aerial images.

#### Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB≈Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH-Lacustrine Fringe Headwater

LFV=Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

i		

Wetland Mapping Code:

X

Coue.

2.98

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

HGM Class(es):

Size (acres):

**PFO** 

RFT

Investigators:

**MRS** 

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E Sec.B000

Tax Lots:

TL#1503, 1504

Other:

Northwest of W Elm Ave, east of Umatilla River. North of Wetland W.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Xerofluvents, 0-3 percent slopes.

Hydrologic Source:

Hydrology appears to be from irrigation runoff.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

Comments

# LOCALLY SIGNIFICANT WETLANDS Wetland of Special Interest

Current Land Use:

No visible access/viewing point for this wetland. Aerial photographs were referenced. Area appears to be dominated by Russian olives and open space.

Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Embayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RJ=River impounding

LFH=Lacustrine Fringe Headwater

LFV∞Lacustrine Fringe Valley

DB=Depressional Bog

DA: Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

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Wetland Mapping Code:

Y

2.18

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

PFO, OW

HGM Class(es):

Size (acres):

RFT

Investigators:

MRS

Data Sheet Numbers:

Off-site

Location

Legal:

T4N, R28E Sec.4D0, 4A0

Tax Lots:

Sec. 4D0 TL# 1902, 1904, 1900

Sec. 4A0 TL# 1800, 1900

Other:

West of the terminus of McConnel Lane, west of NW 15th St. East of Umatilla

River

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Xerofluvents, 0-3 percent slopes.

Hydrologic Source:

Hydrology appears to be from irrigation runoff. Pond appears to be a dugout

livestock pond. Drainage from pond appears to be lined by Russian olives.

# Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

# Comments

#### **Current Land Use:**

No visible access/viewing point for this wetland. Aerial photographs were referenced. Area appears to be dominated by Russian olives. Appears to be open or livestock space via aerials.

# Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO=palustrine forested

PSS=palustrine scrub/shrub

PEM∞Palustrine emergent

POW=palustrine open water RFT=Riverine Flow Through

HGM CODES:
Rl=River impounding

EFB=Estuarine Fringe Embayment LFH=Lacustrine Fringe Headwater EFR=Estuarine Fringe Riverine

LFV=Lacustrine Fringe Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP\*Depressional Closed Permanent

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			`.	

Hermiston Local Wetland Iventory Wetland Characterization Sheet

Wetland Mapping Code:

Z

Size (acres):

2.01

Date(es) of Fieldwork:

7/10/2012

Cowardin Class(es):

PEM, PFO

HGM Class(es):

RFT

Investigators:

**MRS** 

Data Sheet Numbers:

13, 14, 15, 47

Location

Legal:

T4N, R28E, Sec B000

Tax Lots:

TL # 8000, 8701

Other:

North of corner to SW 23rd St and Co 1238 Rd. South of Hermiston River.

Northwest of wetland F2.

Watershed name:

Umatilla River (170701031306)

Soils

Mapped Series:

Quincy loamy fine sand, 0 to 25 percent slopes.

Hydologic Source:

Wetland recently formed after Bureau of Reclamation purposely broke a hole in

an irrigation siphon pipe. When irrigation water is in the pipe it flows out of the

break and down the swale that forms the wetland.

Vegetation

Trees/Shrubs

Herbs

Scientific

Common Name

Scientific

Common Name

Elaeagnus angustolia

Russian Olive

Typha latifolia

Broadleaf cattail

Phalarus arundinacea

Reed Canary Grass

Comments

LOCALLY SIGNIFICANT WETLAND
Wetland of Special Interest

Current Land Use:

Property of Buraeu of Reclamation, area appears to be open space.

Associated DSL WD Files:

COWARDIN CODES:

E2FO=estuarine forested

E2SS=estuarine scrub/shrub

E2EM=estuarine emergent

PFO≈palustrine forested

PSS=palustrine scrub/sbrub

PEM=Palustrine emergent

POW=palustrine open water

HGM CODES:

EFB=Estuarine Fringe Emayment

EFR=Estuarine Fringe Riverine

RFT=Riverine Flow Through

RI=River impounding

LFH=Lacustrine Fringe Headwater

LFV=Lacustrine Finge Valley

DB=Depressional Bog

DA=Depressional Alkaline

DO=Depressional outflow

DCP=Depressional Closed Permanent

DCNP=Depressional Closed Non-Permanent

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#### APPENDIX D: WETLAND DETERMINATION DATA FORMS



			- NO-1490/15500			
Project/Site: Hermiston LWI City/Coun	ty: Hermiston San	npling Date	e: 7/10	/12		
Applicant/Owner: State: OR S	ampling Point: 1					
Investigator(s): MRS Section, To	wnship, Range: T	4N, R28E,	Sec 1	2D		
Landform (hillslope, terrace, etc.): Hillslop	e Local relief (cor	ncave, con	vex, n	one):	None Slop	pe (%):7 %
Subregion (LRR):D Lat: 45.8414	Long: -119.2506	Datur			·	` '
Soil Map Unit Name: Adkins NWI classif	cation:					
Are climatic / hydrologic conditions on the		e time of va	22.2 V	/oc  ⊽	ĭ Ni⇔ □⊃ (If	no compain in Demanda N
Are Vegetation ☐, Soil ☐, or Hydrology						
						mstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology						n any answers in Remarks.)
SUMMARY OF FINDINGS - Att	ach site map	showing	san	nplin	ig point l	locations, transects, important features, etc
Hydrophytic Vegetation Present?	Yes ☐ No 🏻			le fi	ne Sampleo	d Area
Hydric Soil Present?	Yes 🔲 No 🔯				in a Wetla	
Wetland Hydrology Present? Remarks:	Yes ☐ No 🗵					
Remarks.						
VEGETATION						
<u>Tree Stratum</u> (Plot size: )		Absolute % Cover			Indicator	Dominance Test worksheet:
1.		70 OOVEI	T DEG	Pics I	Jiaius	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.			ļ			That Are OBL, FACW, or FAC: 0 (A)
3.		-				Total Number of Dominant Species Across All Strata: 1 (B)
4.						
		L	<u> </u>			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size:	Total Cover:					Prevalence Index worksheet:
1.		T			<del></del>	Total % Cover of: Multiply by:
2.						OBL species x 1 =
3.						FACW speciesx 2 =
4.						FAC species x 3 =
5.						FACU species x 4 =
			***************************************			UPL speciesx 5 =
Herb Stratum (Plot size: 5')	Total Cover:					Column Totals:(A)
1.Cynodon dactylon		100	X	<del></del>	FACU	Drovoloma Inday - D/A -
2.		100			1,700	Prevalence index = B/A =  Hydrophytic Vegetation Indicators:
3.			·····			Dominance Test is >50%
4.						Prevalence Index is =3.01
5.				_		☐ Morphological Adaptations¹ (Provide supporting
6.						data in Remarks or on a separate sheet)
7.						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8.						\$1. N
						<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
	Total Cover:	<u>100</u>			ŀ	
Woody Vine Stratum (Plot size: )						Hydrophytic
1.						Vegetation
2.	Talat O					Present? Yes No 🗵
	Total Cover:					Remarks:
% Bare Ground in Herb Stratum 0	% Cover	of Biotic C	rust		J	

TOTHE DESC	ription: (Describ	e to the de	pth needed to o	locument	the indica	tor or cor	firm the a	bsence of indicators.)
Depth	Matrix			Redox Fea		e Loc	······	du ma' Danna and ca
inches)	Color (moist)	%	Color (mois	1)7	<u>6 Typ</u>	e Loc		kture Remarks
0-9	2.5Y3/3	100					SL	
9-16	10YR4/1	95	10YR3/4	5	С	M	SL	
····								
		***						
***************************************								
		_ L				J		
vpe: C=Co	ncentration, D=D	epletion, RM	I=Reduced Matr	ix. <sup>2</sup> Loc	ation: PL=	Pore Linin	a. RC≔Roc	ot Channel, M=Matrix.
	ndicators: (Appl				noted.)			licators for Problematic Hydric Soils <sup>3</sup> :
Histosol	, ,		☐ Sandy F	Redox (S5)	)			1 cm Muck (A9) (LRR C)
	olpedon (A2)		☐ Strippe	•	•			2 cm Muck (A10) ( <b>LRR B</b> )
] Black Hi			☐ Loamy					Reduced Vertic (F18)
	en Sulfide (A4) Layers (A5) ( <b>LRF</b>	S (C)	☐ Loamy ☐ Deplete					Red Parent Material (TF2)
	ck (A9) ( <b>LRR D</b> )	(0)	☐ Redox				لسا	Other (Explain in Remarks)
	Below Dark Surfa	ce (A11)	☐ Deplete					
	k Surface (A12)		Redox					
	ıcky Mineral (S1)		☐ Vernal F	Pools (F9)			<sup>3</sup> inc	dicators of hydrophytic vegetation and
	eyed Matrix (S4)						1	wetland hydrology must be present.
	ayer (if present):						ŀ	
Type:								
Depth (inc	nes):						Hydi	ric Soil Present? Yes 🗌 No 🛛
etland Hyd	rology Indicators							Secondary Indicators (2 or more required
etland Hyd imary Indica	rology Indicators ators (any one ind							Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)
etland Hyd mary Indica Surface W	rology Indicators ators (any one ind /ater (A1)		☐ Salt C	, ,				<ul><li>☐ Water Marks (B1) (Riverine)</li><li>☐ Sediment Deposits (B2) (Riverine)</li></ul>
etland Hyd mary Indica Surface W High Wate	rology Indicators ators (any one ind /ater (A1) or Table (A2)		☐ Salt C	Crust (B12	-			<ul><li>☐ Water Marks (B1) (Riverine)</li><li>☐ Sediment Deposits (B2) (Riverine)</li><li>☐ Drift Deposits (B3) (Riverine)</li></ul>
etland Hyd mary Indica Surface W High Wate Saturation	rology Indicators ators (any one ind /ater (A1) or Table (A2) (A3)	icator is suff	☐ Salt C ☐ Biotic ☐ Aquatic	Crust (B12 Invertebra	ates (B13)			<ul> <li>□ Water Marks (B1) (Riverine)</li> <li>□ Sediment Deposits (B2) (Riverine)</li> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> </ul>
etland Hyd mary Indica Surface W High Wate Saturation Water Mar	rology Indicators ators (any one ind /ater (A1) or Table (A2) (A3) ks (B1) (Nonriver	icator is suff	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydro	Crust (B12 Invertebragen Suifide	ates (B13) Odor (C1	)		<ul> <li>□ Water Marks (B1) (Riverine)</li> <li>□ Sediment Deposits (B2) (Riverine)</li> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> </ul>
etland Hyd imary Indica Surface W High Wate Saturation Water Mark Sediment	rology Indicators ators (any one ind fater (A1) or Table (A2) (A3) ks (B1) (Nonriver Deposits (B2) (No	icator is suff ine) onriverine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydroţ ☐ Oxidiz	Crust (B12 Invertebragen Sulfide ed Rhizosp	ates (B13) Odor (C1 oheres alo	) ng Living F	Roots (C3)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Thin Muck Surface (C7)</li> </ul>
imary Indica Surface W High Wate Saturation Water Mari Sediment Drift Depo	rology Indicators ators (any one indicators (A1) ar Table (A2) (A3) as (B1) (Nonriver Deposits (B2) (No	icator is suff ine) onriverine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydroţ ☐ Oxidiz ☐ Preser	Crust (B12 Invertebragen Sulfide ed Rhizosp noe of Red	ates (B13) Odor (C1 oheres alou uced Iron (	) ng Living F (C4)	. ,	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Thin Muck Surface (C7)</li> <li>Crayfish Burrows (C8)</li> </ul>
etland Hyd imary Indica Surface W High Wate Saturation Water Mari Sediment Drift Depo Surface Se	rology Indicators ators (any one indicators (any one indicators (A1) or Table (A2) (A3) ks (B1) (Nonriver Deposits (B2) (Nosits (B3) (Nonriver) oil Cracks (B6)	icator is suff ine) enriverine) erine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydrog ☐ Oxidiz ☐ Preser ☐ Recen	Crust (B12 Invertebragen Sulfide ad Rhizospace of Red t Iron Red	ates (B13) Odor (C1 Theres alor uced fron ( uction in Pl	) ng Living F (C4)	. ,	☐ Sediment Deposits (B2) (Riverine) ☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C
etland Hyd imary Indica Surface W High Wate Saturation Water Mark Sediment Drift Depo Surface Se Inundation	rology Indicators ators (any one indicators (A1) ar Table (A2) (A3) as (B1) (Nonriver Deposits (B2) (No	icator is suff ine) enriverine) erine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydro; ☐ Oxidiz ☐ Preser ☐ Recen	Crust (B12 Invertebragen Sulfide ad Rhizospace of Red t Iron Red	ates (B13) Odor (C1 Theres alor uced fron ( uction in Pl	) ng Living F (C4)	. ,	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Thin Muck Surface (C7)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (€ Shallow Aquitard (D3)
etland Hyd imary Indica Surface W High Wate Saturation Water Mari Sediment Drift Depo Surface So Inundation Water-Sta	rology Indicators ators (any one indivater (A1) or Table (A2) (A3) as (B1) (Nonriver Deposits (B2) (Nosits (B3) (Nonriver bill Cracks (B6) Visible on Aerial med Leaves (B9)	icator is suff ine) enriverine) erine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydrog ☐ Oxidiz ☐ Preser ☐ Recen	Crust (B12 Invertebragen Sulfide ad Rhizospace of Red t Iron Red	ates (B13) Odor (C1 Theres alor uced fron ( uction in Pl	) ng Living F (C4)	. ,	□ Water Marks (B1) (Riverine)     □ Sediment Deposits (B2) (Riverine)     □ Drift Deposits (B3) (Riverine)     □ Drainage Patterns (B10)     □ Dry-Season Water Table (C2)     □ Thin Muck Surface (C7)     □ Crayfish Burrows (C8)     □ Saturation Visible on Aerial Imagery (Canada Canada Cana
etland Hyd imary Indica Surface W High Wate Saturation Water Mark Sediment Drift Depo Surface Se Inundation	rology Indicators ators (any one ind fater (A1) or Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (No sits (B3) (Nonrive bil Cracks (B6) Visible on Aerial ned Leaves (B9) attions:	ine) onriverine) erine) Imagery (B7	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydrog ☐ Oxidiz ☐ Preser ☐ Recen	Crust (B12 Invertebragen Sulfide ed Rhizospace of Red t Iron Reda Explain in	ates (B13) Odor (C1 Theres alor uced fron ( uction in Pl	) ng Living F (C4)	. ,	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Thin Muck Surface (C7)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (€ Shallow Aquitard (D3)
etland Hyd imary Indica Surface W High Wate Saturation Water Mari Sediment Drift Depo Surface So Inundation Water-Stal	rology Indicators ators (any one ind /ater (A1) or Table (A2) (A3) ks (B1) (Nonriver Deposits (B2) (No sits (B3) (Nonrive oil Cracks (B6) Visible on Aerial ined Leaves (B9) ations:	ine) porriverine) erine) Imagery (B7	Salt C Biotic Aquatic Hydrog Oxidize Preser Recen	Crust (B12 c Invertebragen Sulfide ed Rhizospace of Red t Iron Reda Explain in	ates (B13) Odor (C1 Theres alor uced fron ( uction in Pl	) ng Living F (C4)	. ,	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Thin Muck Surface (C7)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (€ Shallow Aquitard (D3)

flood irrigated

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date	: 7/10/	12	•
Applicant/Owner: State: OR Sampling Point: 2	-			
investigator(s): MRS Section, Township, Range: T4	N. R28E.	Sec. 1	20	
Landform (hillslope, terrace, etc.): Hillslope Local relief (con				06 (%)·6-7%
Subregion (LRR):D Lat: 45.8414 Long: -119.2506	Datur		nich ivone olog	76 (10):3-1 76
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classifi		11.		
		. 0. \	. <b>679 b</b>	
Are climatic / hydrologic conditions on the site typical for this				
Are Vegetation, Soil, or Hydrology significantly dist				mstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally proble			•	n any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	showing	sam	pling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☒ No ☐			Is the Sample	d Araa
Hydric Soil Present? Yes ⊠ No □			within a Wetla	
Wetland Hydrology Present? Yes ☒ No ☐				
Remarks:				
VEGETATION		****		
Tree Stratum (Plot size: )	Absolute % Cover		inant Indicator cies? Status	Dominance Test worksheet:
1.	T	T		Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
4.				Percent of Dominant Species
	1	1		That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover:				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: )_	T	1		Total % Cover of: Multiply by:
2.				OBL species x 1 =
3.				FACW speciesx 2 =
4.				FAC species x 3 =
5,				FACU species x 4 =
	L			UPL species x 5 =
Total Cover:				Column Totals: (A)
Herb Stratum (Plot size: 5')				(B)
1.Typha latifolia	20	Х	OBL	Prevalence Index = B/A =
2.Schoenoplectus tabernaemontani	20	х	OBL	Hydrophytic Vegetation Indicators:
3.Juncus articus	40	х	FACW	Dominance Test is >50%
4.Oenanthe sarmentosa	10		OBL	Prevalence Index is =3.01
5.Mimulus sp.	10		FACW	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.				, , , , , , , , , , , , , , , , , , , ,
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
W_4=1 A	100			be present.
Woody Vine Stratum (Plot size: )	<u>100</u>			
1.				Hydrophytic Vegetation
2.				Present? Yes No
Total Cover:				Remarks: Mimulus sp. assume FACW or wetter
% Bare Ground in Herb Stratum0	of Blotic C	Crust		

Sampling Point: 2

Profile Description	,	to the dept				or confi	rm the a	bsence of	indicato	rs.)	
Depth (inches)C	Matrix olor (moist)	%	Reaction Color (moist)	dox Featu %	es Type <sup>1</sup>	Loc <sup>2</sup>	 Te:	xture		Remar	ks
	10YR2/1	100					CL				
	101R2/1						CL			***************************************	
16-22	IUYR4/1	100					UL				
						***************************************					
							<u> </u>			•,	
L							1				
<sup>1</sup> Type: C=Concen	tration, D≕Depl	etion, RM=I	Reduced Matrix.	<sup>2</sup> Location	on: PL≔Po	re Lining,	RC≃Ro	ot Channel,	M=Matri	x.	
Hydric Soil Indica							Inc	licators for	Probler	natic Hyd	ric Soiis³:
☐ Histosol (A1)			☐ Sandy Red	lox (S5)				1 cm Mucl	(A9) (Li	RR C)	
Histic Epipedo			☐ Stripped N					2 cm Muck		•	
Black Histic (/			☐ Loamy Mu					Reduced \			
☐ Hydrogen Sul		• • •	Loamy Glo	•				Red Parer			
☐ Stratified Laye ☐ 1 cm Muck (As		•}	☐ Depleted I				نـا	Other (Exp	olain in R	emarks)	
Depleted Below		(A11)	☐ Redox Da ☐ Depleted I								
☑ Thick Dark Sur		(/ / / /	☐ Redox De								
Sandy Mucky N			☐ Vernal Poo		(. 0)		<sup>3</sup> Inc	dicators of I	vdrophy	tic vegeta:	tion and
Sandy Gleyed	Matrix (S4)			, ,				wetland hy			
Restrictive Layer	(if present):	, , , , , , , , , , , , , , , , , , , ,									
Туре:											
Depth (inches):							Hyd	ric Soil Pre	esent?	Yes ⊠	No 🗌
Remarks:							t			***************************************	
YDROLOGY											
Vetland Hydrolog	y Indicators:							Secondar	y Indicat	ors (2 or n	nore required)
Primary Indicators (	any one indica	tor is suffici	ent)		····			☐ Wate:	r Marks (	B1) ( <b>Rive</b> i	rine)
☐ Surface Water (	(A1)		☐ Salt Crus	t (B11)				☐ Sedin	nent Dep	osits (B2)	(Riverine)
☐ High Water Tab	le (A2)		☐ Biotic Cru	st (B12)						(B3) ( <b>Rive</b>	
☑ Saturation (A3)			☐ Aquatic In	vertebrate	s (B13)					erns (B10)	•
🗍 Water Marks (B1	i) (Nonriverine	<b>a</b> )	☐ Hydrogen	Sulfide O	dor (C1)			☐ Dry-S	eason W	ater Table	e (C2)
☐ Sediment Depo	sits (B2) ( <mark>Non</mark> r	iverine)	Oxidized	Rhizosphe	res along	Living Ro	ots (C3)				` .
Drift Deposits (E	33) ( <b>Nonriveri</b> r	1e)	Presence	of Reduc	ed Iron (C₄	<b>!</b> )		☐ Crayfi	sh Burro	ws (C8)	
Surface Soil Cra	` '		☐ Recent in	on Reduct	ion in Plow	ed Soils (	(C6)	☐ Satura	ation Visi	ble on Aei	rial Imagery (C9)
☐ Inundation Visib	le on Aerial Im	agery (B7)	☐ Other (Exp	olain in Re	marks)				w Aquita		, , ,
] Water-Stained L	.eaves (B9)							☐ FAC-I	Veutral T	est (D5)	
ield Observations	;										
urface Water Pres	ent? Yes	s 🗌 No 🛛	Depth (inches):								
√ater Table Presen	t? Ye	s 🗌 No 🛭	Depth (inches):								
aturation Present? ncludes capillary fr	inge)		Depth (inches):			ì		drology Pr	esent?	Yes 🗵	No 🗌
escribe Recorded	Data (stream g	auge, moni	toring well, aerial	photos, p	revious ins	pections)	, if availa	able:			
· · · · · · · · · · · · · · · · · · ·				**********							
emarks:											
ood irrigated -											

Project/Site: Hermiston LWI City/County: Hermiston Sai	mpling Date:	: 7/10/	12	
Applicant/Owner: State: OR Sampling Point: 3				
Investigator(s): MRS Section, Township, Range: 1	74N, R28E, 3	Sec. 1	2D	
Landform (hillslope, terrace, etc.): Hillsope Local relief (co.	ncave, conv	ex. no	ne): None Slop	e (%):5-7%
Subregion (LRR):D Lat: 45.8414 Long: -119.2506			, , , , , , , , , , , , , , , , , , , ,	
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classi		••		
Are climatic / hydrologic conditions on the site typical for th		ar2 V	oo 171 No 1771 784	Francisco de Damarka
• •	-			·
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly di				mstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally probl  SUMMARY OF FINDINGS — Attach site man		-	•	n any answers in Remarks.)  locations, transects, important features, etc.
7. Action of the Image		Jun	iping point	iodations, transcoto, important roatures, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			is the Sample	ed Area
Hydric Soil Present? Yes ☐ No ☒			within a Wetla	and? Yes 🗌 No 🔯
Wetland Hydrology Present? Yes ☐ No ☒ Remarks:				
Nomano.				
VEGETATION				
Tree Stratum (Plot size: )	Absolute % Cover		inant Indicator cies? Status	
1.	78 33 73.	<u> </u>	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.		<del> </del>		
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
		<u> </u>		That Are OBL, FACW, or FAC: 0 (A/B)
Total Cove	r:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')		,		Total % Cover of: Multiply by:
1.Rubus discolor	1		FACU	OBL species x1=
2.				FACW speciesx2 =
3.				FAC species x3=
4.				FACU species x 4 =
5.		<u> </u>		UPL species x 5 =
T-1-1-0	4			Column Totals: (A)
Total Cove <u>Herb Stratum</u> (Plot size: 5')	f: <u>1</u>			(B)
1.Calamagrostis rubescens	45	х	NOL	Prevalence Index = B/A =
2.Polypogon monspeliensis	5		FACW	Hydrophytic Vegetation Indicators:
3.Hordeum jubatum	10		FAC	Dominance Test is >50%
4.Cynodon dactylon	30	х	FACU	☐ Prevalence Index is =3.0¹
5.Cirsium arvense	1		FACU	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.Trifolium repens	1		FACU	Problematic Hydrophytic Vegetation¹ (Explain)
7.Medicago sativa	1		NOL	Problematic Hydrophytic Vegetation (Explain)
8.Lolium perenne	5		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	l	l	I , , , ,	be present.
Total Cove	r: <u>98</u>			
Woody Vine Stratum (Plot size: )				Hydrophytic
1.				Vegetation Present? Yes □ No ☑
2. Total Cove	۳.			
				Remarks:
% Bare Ground in Herb Stratum2 % Cov	er of Biotic (	Crust		

SOIL									Sampling Point: 3
Profile Descri	ption: (Describe	to the dep	th needed to do	cument th	e indicato	r or confi	rm the a	bsence o	of indicators.)
Depth	Matrix	•		dox Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Tex	ture	Remarks
0-9	10YR3/2	100					SL		
9-16	2.5Y3/1-2	98	10YR3/4	2	С	M	SL		-
			1						
							ļ		
									•
	centration, D=Dep			<sup>2</sup> Locati	on: PL≔Po	re Lining,			el, M=Matrix.
l	dicators: (Applic	able to all			oted.)				for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol (/	,		☐ Sandy Re						uck (A9) (LRR C)
Black Hist	pedon (A2)		Stripped I						ck (A10) (LRR B)
	Sulfide (A4)		☐ Loamy Mi☐ Loamy Gl						d Vertic (F18) rent Material (TF2)
	ayers (A5) (LRR (	C)	☐ Depleted						xplain in Remarks)
	(A9) (LRR D)	,	☐ Redox Da	,	•			04101 (2	Span in romana)
	elow Dark Surface	e (A11)	☐ Depleted						
	Surface (A12)		Redox De		(F8)				
1	ky Mineral (S1)		☐ Vernal Poo	ols (F9)					of hydrophytic vegetation and
Sandy Gley	er (if present):						1	wetland h	nydrology must be present.
Type:	ver (ii present).								
1	alı.						- I		
Depth (inche					******************************	****	Hyd	ric Soil F	Present? Yes 🗌 No 🗵
Remarks:									
								•	
HYDROLOGY	<i>(</i>								
Wetland Hydro	logy Indicators:							Second	dary Indicators (2 or more required)
Primary Indicate	ors (any one indica	ator is suffic	zient)						ter Marks (B1) (Riverine)
Surface Wa			☐ Salt Crus	t (B11)					diment Deposits (B2) (Riverine)
☐ High Water	Table (A2)		☐ Biotic Cra						t Deposits (B3) (Riverine)
☐ Saturation (A	(3)		☐ Aquatic In		es (B13)				inage Patterns (B10)
☐ Water Marks	(B1) (Nonriverin	<b>e</b> )	☐ Hydroger						-Season Water Table (C2)
☐ Sediment De	eposits (B2) ( <b>Non</b> i	riverine)			eres along	Living Ro	ots (C3)		Muck Surface (C7)
☐ Drift Deposit	s (B3) (Nonriveri	ne)			ed Iron (C4		, ,		yfish Burrows (C8)
☐ Surface Soil	Cracks (B6)		☐ Recent In	on Reduct	ion in Plow	ed Soils (	(C6)		uration Visible on Aerial Imagery (C9)
☐ Inundation V	isible on Aerial Im	agery (B7)	☐ Other (Ex			·	` '		illow Aquitard (D3)
☐ Water-Staine	ed Leaves (B9)								C-Neutral Test (D5)
Field Observati	ons:	·····				]			
Surface Water P	resent? Ye	s □ No 🏻	Depth (inches):						
Water Table Pre	sent? Ye	s □ No 🗵	Depth (inches):						
Saturation Prese			Depth (inches):			Wet	land Hv	droloav i	Present? Yes ☐ No ☒
(includes capillar	y fringe)		,						
Pascine Recold	ed Data (stream g	gauge, mor	ntoring well, aeria	photos, p	revious ins	pections)	, if availa	ble:	
Damadia					·				
Remarks:									

Project/Site: Hermiston LWI City/County: Hermiston Sat	npling Date:	7/10/12		
Applicant/Owner: State: OR Sampling Point: 4				
Investigator(s): MRS Section, Township, Range: 1	4N, R28E, \$	Sec. 12D		
Landform (hillslope, terrace, etc.): Hillslope Local relief (co	ncave, conv	ex, none)	): None Slope	e (%):5-7%
Subregion (LRR):D Lat: 45.8414 Long: -119.2506			`	
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classi	fication:			
Are climatic / hydrologic conditions on the site typical for th		ar? Yes l	⊠ No □ (If	no, explain in Remarks )
Are Vegetation □, Soil □, or Hydrology □ significantly di				nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally probl				any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map				
Hydrophytic Vegetation Present? Yes ⊠ No □				
Hydric Soil Present? Yes ☐ No ☒		ĺ	the Sampled	
Wetland Hydrology Present? Yes ☐ No ☒		WI	thin a Wetlai	nd? Yes □ No ⊠
Remarks:				
VEGETATION				
Tree Stratum (Plot size: )	Absolute % Cover		nt Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 3 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: <u>3</u> (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Total Cove	r:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')		r		Total % Cover of: Multiply by:
1.				OBL species x1 =
2. 3.				FACW species x 2 =
4.				FAC species x 3 =
5,				FACU species x 4 =
				UPL speciesx 5 =
Total Cover Herb Stratum (Plot size: 5')	·			Column Totals: (A)
1. Juncus articus	30	х	FACW	Prevalence Index = B/A =
2.Festuca arundinacea	5		FACU	Hydrophytic Vegetation Indicators:
3.Agrostis stolonifera	30	x	FACW	_ ☑ Dominance Test is >50%
4.Holcus mollis	20	х	FAC	Prevalence Index is =3.01
5.Trifolium repens	10		FACU	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.Cirsium vulgare	t		FACU	Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover	: <u>95</u>			
Woody Vine Stratum (Plot size: )				Hydrophytic
1.				Vegetation
2. Tatal Causa				Present? Yes No No
Total Cover  % Bare Ground in Herb Stratum 5 % Cover	: er of Biotic (			Remarks:

	ription: (Describe	to the de	epth needed to d	locument	the indica	itor or con	firm the ab	sence of in	dicators.)	
Depth	Matrix			Redox Fea	tures					
(inches)	Color (moist)	%	Color (mois	t) 9	<u>Typ</u>	e <sup>1</sup> Loc <sup>2</sup>	<u>Text</u>	ure	Re	emarks
0-3	7.5YRYR3/2	100					SL			
3-7	2.5Y3/2	98	2.5Y3/1	2			SL	fa	int	
7-12	2.5Y3/2	95	2.5Y3/3	5	С	М	SL			
		ļ								
	-									
		<u> </u>								
Type: C=Co	ncentration, D≃Der	oletion, RI	M=Reduced Matr	ix. <sup>2</sup> Loca	ation: PL=	Pore Lining	g, RC=Root	t Channel, M	1≕Matrix.	
lydric Soil Ir	ndicators: (Applic	cable to a	II LRRs, unless	otherwise	noted.)					: Hydric Solls³:
Histosol	• ,		☐ Sandy i						A9) ( <b>LRR C</b>	
☐ Histic Ep ☐ Black His	pipedon (A2)		☐ Strippe						410) (LRR E	3)
	n Sulfide (A4)		☐ Loamy ☐ Loamy	•				Reduced Ve		70.
	Layers (A5) (LRR	C)	☐ Deplete						Material (TF iin in Remar	
	ck (A9) (LRR D)	-,		Dark Surfa			L.,	outor (andro	anz in recinas	Ko)
	Below Dark Surface	e (A11)		ed Dark Su						
	k Surface (A12)			Depressior	ıs (F8)					
	cky Mineral (S1)		☐ Vernal f	Pools (F9)						getation and
	eyed Matrix (S4)									
actrictive I	ever (if procent):	***************************************					W	etland hydro	ology must b	pe present.
	ayer (if present):						w	etland hydro	ology must b	pe present.
Type:										
Type: Depth (incl								etland hydro		
Type: Depth (inchemarks:	nes):									
Type: Depth (incl	nes):									
Type: Depth (inchemarks:	nes):					~~~				
Type: Depth (inchemarks: edox is not d	nes): listinct.									
Type: Depth (inchemarks: edox is not d	nes): distinct.									
Type: Depth (inchemarks: edox is not defined the content of the co	nes):  Sistinct.  Siy  Cology Indicators:							ic Soil Pres	ent? Yes	
Type: Depth (inchemarks: edox is not defined the content of the co	nes):  listinct.  Y  ology Indicators: tors (any one indic	ator is suf	ficient)					ic Soil Pres	ent? Yes	No ⊠  No ⊠  2 or more required)
Type: Depth (inchemarks: edox is not defined the content of the co	nes):  ii ii iv ology Indicators: tors (any one indicator)	ator is suf	ficient) ☐ Salt C	rust (B11)			Hydri	ic Soil Pres Secondary Water N	ent? Yes Indicators (2 Marks (B1) (I	No ⊠  No ⊠  2 or more required)
Type: Depth (inchemarks: edox is not defended by the content of th	itors (any one indicator (A1) r Table (A2)	ator is suf	☐ Salt C	Crust (B12			Hydri	Secondary Water N	ent? Yes Indicators (2 Marks (B1) (I	No   No   or more required)  Riverine)  (B2) (Riverine)
Type: Depth (inchemarks: edox is not defended by the content of th	iy ology Indicators: tors (any one indicator (A1) r Table (A2)		☐ Salt C ☐ Biotic ☐ Aquatic	Crust (B12 Invertebra	ites (B13)		Hydri	Secondary Water N Sedime Drift De	Indicators (2 Marks (B1) (I ent Deposits posits (B3) ( ge Patterns (	2 or more required) Riverine) (B2) (Riverine) (Riverine)
Type: Depth (inchemarks: edox is not defended by the content of th	ology Indicators: tors (any one indicator (A1) r Table (A2) (A3) s (B1) (Nonriverin	ne)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydrog	Crust (B12 Invertebra gen Sulfide	ites (B13) Odor (C1	)	Hydri	Secondary Water N Sedime Drift De	ent? Yes  Indicators (2  Marks (B1) (I  int Deposits posits (B3) (	2 or more required) Riverine) (B2) (Riverine) (Riverine)
Type: Depth (inchemarks: edox is not defended by the color of the colo	listinct.  SY  clogy Indicators: tors (any one indicater (A1) r Table (A2) (A3) s (B1) (Nonriverin	ie) iriverine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydroţ ☐ Oxidiz	Crust (B12 Invertebra gen Sulfide ed Rhizosp	ites (B13) Odor (C1 heres alo	) ng Living R	Hydri	Secondary Water N Sedime Drift De Drainag Dry-Sea	Indicators (2 Marks (B1) (I Int Deposits posits (B3) (I IP Patterns (I IP Patterns (I IP Patterns (I	No  Property No  P
Type: Depth (inchemarks: edox is not defended by the content of th	ology Indicators: tors (any one indicator (A1) r Table (A2) (A3) s (B1) (Nonriverin Deposits (B2) (Nonriverin	ie) iriverine)	☐ Salt C ☐ Biotic ☐ Aquatic ☐ Hydroţ ☐ Oxidiz ☐ Preser	Crust (B12) Invertebragen Sulfide ed Rhizospace of Redu	ites (B13) Odor (C1 heres alo iced Iron	) ng Living R (C4)	Hydri	Secondary Water M Sedime Drift De Drainag Dry-Sea Thin Mu	Indicators (2 Marks (B1) (I int Deposits posits (B3) (I pe Patterns (I pe Patterns (I pe Surface (In Burrows (C	No  No  Property of the control of t
Type: Depth (inchemarks: edox is not defended by the content of th	nes):  iy  ology Indicators: tors (any one indicator (A1) r Table (A2) (A3) s (B1) (Nonriverind Deposits (B2) (Nonriverind (B3) (Nonriverind (B3) (Nonriverind (B3) (Nonriverind (B3) (Nonriverind (B3) (Nonriverind (B6))	ne) riverine) ine)	Salt C Biotic Aquatic Hydrog Oxidiz Preser	Crust (B12) Invertebragen Sulfide ad Rhizosp ace of Redu t Iron Redu	ites (B13) Odor (C1 heres alo iced Iron ction in P	) ng Living R (C4)	Hydri	Secondary Water M Sedime Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati	Indicators (2 Marks (B1) (I int Deposits posits (B3) (i pe Patterns ( pe Patterns ( pe Patterns ( pe Patterns ( pe Patterns ( pe Patterns (Con Water (Con Visible on	2 or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) (C8) n Aerial Imagery (C
Type: Depth (inchemarks: edox is not defended by the color of the colo	istinct.  iY  ology Indicators: tors (any one indicater (A1) r Table (A2) (A3) s (B1) (Nonrivering (B2) (Nonsits (B3) (Nonrivering (B3) (N	ne) riverine) ine)	Salt C Biotic Aquatic Hydrog Oxidiz Preser	Crust (B12) Invertebragen Sulfide ad Rhizosp ace of Redu t Iron Redu	ites (B13) Odor (C1 heres alo iced Iron ction in P	) ng Living R (C4)	Hydri doots (C3)	Secondary Water N Sedime Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati Shallow	Indicators (2 Marks (B1) (I ent Deposits posits (B3) (I pe Patterns (I ason Water (I ck Surface (I on Visible on Aquitard (D	2 or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) (C8) n Aerial Imagery (C
Type: Depth (inchemarks: edox is not defended by the content of th	istinct.  iy  ology Indicators: tors (any one indicator (A1) r Table (A2) (A3) is (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B	ne) riverine) ine)	Salt C Biotic Aquatic Hydrog Oxidiz Preser	Crust (B12) Invertebragen Sulfide ad Rhizosp ace of Redu t Iron Redu	ites (B13) Odor (C1 heres alo iced Iron ction in P	) ng Living R (C4)	Hydri doots (C3)	Secondary Water N Sedime Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati Shallow	Indicators (2 Marks (B1) (I int Deposits posits (B3) (i pe Patterns ( pe Patterns ( pe Patterns ( pe Patterns ( pe Patterns ( pe Patterns (Con Water (Con Visible on	2 or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) (C8) n Aerial Imagery (C
Type: Depth (inchemarks: edox is not defended by the content of th	ology Indicators: tors (any one indicator (A1) r Table (A2) (A3) s (B1) (Nonrivering (B2) (Nonsits (B3) (Nonrivering (B3	ne) iriverine) ine) nagery (B	Salt C Biotic Aquatic Hydrog Oxidiz Preser Recen 7) Other (	Crust (B12 Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	ites (B13) Odor (C1 heres alo iced Iron ction in P	) ng Living R (C4)	Hydri doots (C3)	Secondary Water N Sedime Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati Shallow	Indicators (2 Marks (B1) (I ent Deposits posits (B3) (I pe Patterns (I ason Water (I ck Surface (I on Visible on Aquitard (D	2 or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) (C8) n Aerial Imagery (C
Type: Depth (inchemarks: edox is not defended by the content of th	istinct.  iy  ology Indicators: tors (any one indicator (A1) r Table (A2) (A3) is (B1) (Nonrivering Deposits (B2) (Nonrivering (B3) (Nonri	ne) priverine) ine) nagery (B	Salt C Biotic Aquatic Hydrog Oxidiz Preser Recen 7) Other (i	Crust (B12 c Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	ites (B13) Odor (C1 heres alo iced Iron ction in P	) ng Living R (C4)	Hydri doots (C3)	Secondary Water N Sedime Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati Shallow	Indicators (2 Marks (B1) (I ent Deposits posits (B3) (I pe Patterns (I ason Water (I ck Surface (I on Visible on Aquitard (D	2 or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) (C8) n Aerial Imagery (C
Type: Depth (inchemarks: edox is not defended by the content of th	istinct.  iY  cology Indicators: tors (any one indicater (A1) r Table (A2) (A3) is (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (	ne) Iniverine) Inagery (B Inagery No	Salt C Biotic Aquatic Hydrog Oxidiz Preser Recen 7) Other (	Crust (B12) Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	ites (B13) Odor (C1 heres alo iced Iron ction in P	) ng Living R (C4) lowed Soils	Hydri doots (C3)	Secondary Water N Sedime Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati Shallow FAC-Ne	Indicators (2 Marks (B1) (I ent Deposits posits (B3) (I pe Patterns (I ason Water (I ck Surface (I on Visible on Aquitard (D	2 or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) (C8) n Aerial Imagery (C

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date:	7/10/	12		
Applicant/Owner: State: OR Sampling Point: 5					
Investigator(s): MRS Section, Township, Range: T4	1N, R28E, S	Sec. 1:	2D		
Landform (hillslope, terrace, etc.): Hillslope Local relief (con	icave, conv	ex, no	ne): N	None Slope	e (%):5-7%
Subregion (LRR):D Lat: 45.8414 Long: -119.2506	Datun		,	·	
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classifi	cation:				
Are climatic / hydrologic conditions on the site typical for this		ar? Yı	es 🔯	No □ (If	no explain in Remarks \
Are Vegetation □, Soil □, or Hydrology □ significantly dist					nstances" present? Yes 🖾 No 🔲
Are Vegetation □, Soil □, or Hydrology □ naturally proble					any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map				•	
Attach site map	snowing	Saiii	piiii	g point i	ocations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes ☒ No ☐			ls th	e Sampled	i Area
Hydric Soil Present? Yes ⊠ No ☐			with	in a Wetla	nd? Yes⊠ No 🏻
Wetland Hydrology Present? Yes ⊠ No ☐ Remarks:				,	
Tromano.					
VEGETATION					
Tree Stratum (Plot size: )	Absolute % Cover			Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1.	T	T			That Are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 2 (B)
4.					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover: Sapling/Shrub Stratum (Plot size: 5')	***************************************				Prevalence Index worksheet:
1.	1	Ι	Т		Total % Cover of: Multiply by:
2.					OBL species x1 =
3.			_		FACW species x 2 =
4.					FAC species x3 =
5.					FACU species x 4 =
					Column Totals:(A)
Total Cover: Herb Stratum (Plot size: 5')					(B)
1.Juncus arcticus	35	х		FACW	Prevalence Index = B/A =
2.Trifolium repens	10			FACU	Hydrophytic Vegetation Indicators:
3.Agrostis stolonifera	40	x		FACW	Dominance Test is >50%
4.Polypogon monspeliensis	10			FACW	Prevalence Index is =3.01
5.Holcus lanatus	5			FAC	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation¹ (Explain)
7.					
8.					¹Indicators of hydric soil and wetland hydrology must be present.
Total Cover:	100				De present
Woody Vine Stratum (Plot size: )	<u></u>	-			Hydrophytic
1.					Vegetation
2.					Present? Yes No No
Total Cover:					Remarks:
% Bare Ground in Herh Stratum 0 % Cove	r of Biotic (	Crust			1

Depth	Matrix		Rado	x Features				
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
0-14	10YR2/1	100				SL		
14-20	10YR4/1	100				SL		
14-20	101114/1	100				OL.		
							·	
				······································		L		
	entration, D=Dep			<sup>2</sup> Location: PL=Por	Lining,	RC≃Roo	t Channe	el, M=Matrix.
dric Soil Indi	icators: (Applica	able to all L	RRs, unless other	wise noted.)				or Problematic Hydric Soils <sup>3</sup> :
Histosol (A	•		☐ Sandy Redox	(S5)			1 cm Mu	ck (A9) (LRR C)
Histic Epipe	• /		Stripped Mat	• •			2 cm Muc	ok (A10) ( <b>LRR B</b> )
Black Histic	, ,		-	y Mineral (F1)				l Vertic (F18)
Hydrogen S			Loamy Gleye					ent Material (TF2)
	yers (A5) (LRR (	<b>&gt;</b> )	Depleted Ma				Other (E:	xplain in Remarks)
	(A9) ( <b>LRR D</b> ) low Dark Surface	. (Δ41)	Redox Dark Depleted Da					
Thick Dark S		(M11)	☐ Redox Depre	• •				
	y Mineral (S1)		☐ Vernal Pools			3ind	icatore of	f hydrophytic vegetation and
Sandy Gleye			C vernari oos	(1 0)				ydrology must be present.
	er (if present):							, , , , , , , , , , , , , , , , , , ,
Type:								
Depth (inches	s):					Hydr	ic Soil P	resent? Yes ⊠ No □
Depth (inchesemarks:						Hydr	ic Soil P	resent? Yes ⊠ No □
Depth (inchesemarks:						Hydr		
Depth (inches emarks:  DROLOGY etland Hydrold	ogy Indicators:					Hydr		resent? Yes ⊠ No □ ary Indicators (2 or more required)
Depth (inches emarks:  DROLOGY etland Hydrolomary Indicator	ogy Indicators: 's (any one indica	tor is sufficie				Hydr	Second:	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Depth (Inches emarks: DROLOGY etland Hydrole mary Indicator Surface Water	ogy Indicators: 's (any one indica er (A1)	itor is sufficie	nt) □ Salt Crust (I	311)		Hydr	Second:	ary Indicators (2 or more required)
Depth (inches emarks: DROLOGY etland Hydrole imary Indicator Surface Wate High Water T	ogy Indicators: 's (any one indica er (A1) 'able (A2)	ntor is sufficie	☐ Salt Crust (I☐ Biotic Crust	(B12)		Hydr	Seconda ☐ Wat ☐ Sed	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Depth (inches emarks: DROLOGY etland Hydrole imary Indicator Surface Water High Water T Saturation (A3	ogy Indicators: s (any one indica er (A1) able (A2)		☐ Salt Crust (I ☐ Biotic Crust ☐ Aquatic Inve	(B12) rtebrates (B13)		Hydr	Second:  Wat Sed	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)
Depth (inches emarks: DROLOGY etland Hydrolo imary Indicator Surface Wate High Water T Saturation (A3 Water Marks (	ogy Indicators: 's (any one indica er (A1) 'able (A2) 3) (B1) (Nonriverine	ə)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S	(B12) rtebrates (B13) ulfide Odor (C1)			Second:  Wat Sed Drift Drai	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine)
DROLOGY  etland Hydrole mary Indicator Surface Wate High Water T Saturation (A3 Water Marks ( Sediment De	ogy Indicators: 's (any one indicater (A1) Table (A2) (B1) (Nonrivering posits (B2) (Nonrivering (B2)	∍) riverine)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L	ving Ro		Second  Wat Sed Drift Drai	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Depth (inches emarks: DROLOGY etland Hydrolo imary Indicator Surface Water High Water T Saturation (A3 Water Marks ( Sediment Dep Drift Deposits	ogy Indicators: 's (any one indicator (A1) 'able (A2) (B1) (Nonrivering posits (B2) (Nonrivering (B3)	∍) riverine)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4)	-	ots (C3)	Secondaria   Wat   Sed   Drift   Drai   Dry-   Thin   Cray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
Depth (inches emarks:  DROLOGY etland Hydrole imary Indicator   Surface Water High Water T   Saturation (A3 Water Marks (Sediment Deposits Surface Soil (1)	ogy Indicators: 's (any one indicator (A1) 'able (A2) '3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B6))	∍) riverine) ne)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	-	ots (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8)
Depth (inches emarks:  DROLOGY etland Hydrologimary Indicator Surface Water High Water T Saturation (AS) Water Marks ( Sediment Deposits Surface Soil ( Inundation Vision	ogy Indicators: 's (any one indicater (A1) 'able (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (B	∍) riverine) ne)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	-	ots (C3)	Seconda  Wat Sed Drift Drai Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Nuter Table (C2) finage Water Table (C2) finage (C7) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (Inches emarks:  DROLOGY etland Hydrold imary Indicator Surface Water High Water T Saturation (A3 Water Marks ( Sediment Deposits Surface Soil ( Inundation Vis Water-Stainer	ogy Indicators: 's (any one indicater (A1) 'able (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3))	∍) riverine) ne)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	-	ots (C3)	Seconda  Wat Sed Drift Drai Thin Cray Satu Shal	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8)
Depth (inches emarks:  DROLOGY  etland Hydrolemary Indicator Surface Water T Saturation (AS Water Marks ( Sediment Deposits Surface Soil ( Inundation Vis Water-Stained Id Observation	ogy Indicators: s (any one indicators) (able (A2) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Non	e) riverine) ne) agery (B7)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent Iron☐ Other (Expla	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	-	ots (C3)	Seconda  Wat Sed Drift Drai Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Nuter Table (C2) finage Water Table (C2) finage (C7) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (Inchest marks:  DROLOGY belland Hydrole mary Indicator Surface Water High Water T Saturation (A3 Water Marks (Sediment Deposits Surface Soil (Inundation Visuater-Stained Observation face Water Programmer Stained Observation of the Pr	ogy Indicators: (any one indicators) (and (A1) (able (A2) (B1) (Nonrivering (B3) (No	e) riverine) ne) agery (B7) s □ No ⊠	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent Iron☐ Other (Expla☐ Depth (inches):	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	-	ots (C3)	Seconda  Wat Sed Drift Drai Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Nuter Table (C2) finage Water Table (C2) finage (C7) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (Inchest emarks:  DROLOGY etland Hydrole imary Indicator Surface Water High Water T Saturation (A3 Water Marks (Sediment Deposits Surface Soil (Inundation Viswater-Stained Observation face Water Programmer Stained Inchest Surface Water Programmer Surfac	ogy Indicators: (any one indicators) (and (A1) (able (A2) (B1) (Nonrivering (B3) (No	e) riverine) ne) agery (B7) s □ No ⊠	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent Iron☐ Other (Expla	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	-	ots (C3)	Seconda  Wat Sed Drift Drai Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Nuter Table (C2) finage Water Table (C2) finage (C7) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (inches emarks:  DROLOGY etland Hydrologimary Indicator Surface Water High Water T Saturation (A3 Water Marks ( Sediment Deposits Surface Soil ( Inundation Vis Water-Stained Water-Stained Indicator Presentation Presentation Presentation Presentation Presentation Scapillary	ogy Indicators: (any one indic	e) riverine) ne) agery (B7) s \( \text{No} \text{ \text{No} \( \text{S} \) s \( \text{No} \text{ \text{No} \( \text{C} \)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent iron☐ Other (Expla  Depth (inches):  Depth (inches):  Depth (inches): 3"	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe in in Remarks)	d Soils (	ots (C3)	Secondary Second	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Nuter Table (C2) finage Water Table (C2) finage (C7) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (inches emarks:  DROLOGY etland Hydrologimary Indicator Surface Water High Water T Saturation (A3 Water Marks ( Sediment Deposits Surface Soil ( Inundation Vis Water-Stained Id Observation face Water Protect Id Observation face Water Protect Id Preservation Preservation Preservation Index Capillary	ogy Indicators: (any one indic	e) riverine) ne) agery (B7) s \( \text{No} \text{ \text{No} \( \text{S} \) s \( \text{No} \text{ \text{No} \( \text{C} \)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent iron☐ Other (Expla  Depth (inches):  Depth (inches):  Depth (inches): 3"	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe	d Soils (	ots (C3)	Secondary Second	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cs) liow Aquitard (D3) S-Neutral Test (D5)
Depth (inches emarks:  DROLOGY  etland Hydrologimary Indicator  Surface Water High Water T Saturation (A3 Water Marks ( Sediment Deposits Surface Soil ( Inundation Vis Water-Stained Water-Stained eld Observation rface Water Presented Presented Presented Presented Social Present	ogy Indicators: (any one indic	e) riverine) ne) agery (B7) s \( \text{No} \text{ \text{No} \( \text{S} \) s \( \text{No} \text{ \text{No} \( \text{C} \)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent iron☐ Other (Expla  Depth (inches):  Depth (inches):  Depth (inches): 3"	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe in in Remarks)	d Soils (	ots (C3)	Secondary Second	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cs) liow Aquitard (D3) S-Neutral Test (D5)
Depth (inches emarks:  "DROLOGY etland Hydrole imary Indicator   Surface Water T   Saturation (A3   Water Marks ( Sediment Deposits Surface Soil ( Inundation Vis Water-Stained   Water Water Presented Observation   Incompare the present of the present of the property of the present of the pr	ogy Indicators: (any one indic	e) riverine) ne) agery (B7) s \( \text{No} \text{ \text{No} \( \text{S} \) s \( \text{No} \text{ \text{No} \( \text{C} \)	☐ Salt Crust (I☐ Biotic Crust☐ Aquatic Inve☐ Hydrogen S☐ Oxidized Rh☐ Presence of☐ Recent iron☐ Other (Expla  Depth (inches):  Depth (inches):  Depth (inches): 3"	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along L Reduced Iron (C4) Reduction in Plowe in in Remarks)	d Soils (	ots (C3)	Secondary Second	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cs) liow Aquitard (D3) S-Neutral Test (D5)

Project/Site: Hermiston LWI City/Coun	ty: Hermiston Sampling	Date: 7/1	0/12		
	Sampling Point: 6				
	ownship, Range: T4N, R	28F. Sec	12D		
Landform (hillslope, terrace, etc.): Hillslop				None Slon	06 (94) 5 794
Subregion (LRR):D Lat: 45.8414		, convex, i Datum:	юпо).	TVOITE GIOP	G (10).3-1 70
Soil Map Unit Name: Adkins Fine Sandy	•				
				71	
Are climatic / hydrologic conditions on the					
Are Vegetation ☐, Soil ☐, or Hydrology					mstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology					n any answers in Remarks.)
SUMMARY OF FINDINGS - Att	ach site map show	wing sar	mplir	ng point l	locations, transects, important features, etc
Hydrophytic Vegetation Present?	Yes ☐ No 🏻		is fi	ne Sample	d Δraa
Hydric Soil Present?	Yes 🗌 No 🔯		ļ	nin a Wetla	
Wetland Hydrology Present?	Yes ☐ No 🖾				
Remarks:					
VEGETATION					
<u>Tree Stratum</u> (Plot size: )		olute Do over Spe	minant ecies?	t Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1.					That Are OBL, FACW, or FAC: 0 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 1 (B)
4.					Percent of Dominant Species
	······································	······································			That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:				Prevalence Index worksheet:
1.		<del></del>			Total % Cover of: Multiply by:
2.			_		OBL species x1=
3.					FACW speciesx2 =
4.					FAC species x 3 =
5.					FACU species x 4 =
			L		UPL species x 5 =
	Total Cover:				Column Totals: (A)
Herb Stratum (Plot size: 5')					(B)
1.Juncus articus	1			FACW	Prevalence Index = B/A =
2.Trifolium repens	60	×		FACU	Hydrophytic Vegetation Indicators:
3.Festuca arundinacea	5			FAC	Dominance Test is >50%
4.Lolium perenne	5			FAC	Prevalence Index is =3.01
5.Holcus lanatus	1			FAC	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation¹ (Explain)
7.					(axpiain)
8.					¹Indicators of hydric soil and wetland hydrology must
	Total Cover: 72				be present.
Woody Vine Stratum (Piot size: )	10ta 00va, <u>12</u>				Uniterated
1.					Hydrophytic Vegetation
2.					Present? Yes No 🗵
	Total Cover:				Remarks:
% Bare Ground in Herb Stratum2	7 % Cover of E	Biotic Crus	ŧ		

	Matrix		th needed to do	edox Featu		5. 561111			- · · · · · · · · · · · · · · · · · · ·
Depth (inches)	Color (moist)	%	Color (moist)	% %	rres Type	e¹ Loc²	 Tex	ture	Remarks
0-2.5	10YR3/2	100				<u> </u>	SL		
2.5-12		95	10YR4/4	5	c	₩	CL.		
2.0"12	2.014/0	30	10114/4	ļ	-	IVI	- OL		
							ļ		
	ncentration, D=Deple				ion: PL=I	Pore Lining			el, M=Matrix.
	idicators: (Applica	ble to all			oted.)				for Problematic Hydric Soils <sup>3</sup> ;
Histosol (			☐ Sandy Re						uck (A9) (LRR C)
_	ipedon (A2)			Matrix (S6	•				ck (A10) (LRR B)
	n Sulfide (A4)		☐ Loamy M ☐ Loamy G	ucky Mine					d Vertic (F18)
	Layers (A5) (LRR C)	}		Matrix (F3					rent Material (TF2) Explain in Remarks)
	k (A9) (LRR D)	,		ark Surfac			Ш	Outol (L	especial in excitation
	3elow Dark Surface (	(A11)		Dark Surf					
	Surface (A12)			epressions					
	cky Mineral (S1)		☐ Vernal Po	ols (F9)			<sup>3</sup> lnc	icators c	of hydrophytic vegetation and
	yed Matrix (S4)						١	vetland i	hydrology must be present.
	yer (if present):								-
Type:									
Depth (inch	es):						. السدداد ا	はっ ひっぱし	Present? Yes 🔲 No ⊠
emarks:					****		Hydi		Tesenti Tes L. NO E.
emarks:							nydi	10 3011	Testill Test NO Ex
emarks: DROLOG	· <b>Y</b>						nyo.		
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DROLOG etland Hydra imary Indicat Surface Wa	Y ology Indicators: tors (any one indicat ater (A1)	or is suffic	☐ Salt Crus	. ,			- Hydi	Second Wa Second	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
DROLOG etland Hydro imary Indicat Surface Wa High Water	Y ology Indicators: tors (any one indicat ater (A1) r Table (A2)	or is suffic	☐ Salt Crus	ust (B12)	(540)		- Hydr	Second Wa	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> )
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PROLOG Petland Hydro Petland H	Y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine) Deposits (B2) (Nonri	) verine)	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc	Odor (C1) eres alon ced Iron (	ig Living Ro C4)	oots (C3)	Seconc  Wa  Sec  Drit  Dry  Thir	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) 7-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8)
emarks:  'DROLOG  etland Hydra imary Indicat    Surface Wa   High Water   Saturation (   Water Mark   Sediment E   Drift Depos   Surface So	Y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri ilts (B3) (Nonriverine	) verine) e)	Salt Crus Biotic Cr Aquatic II Hydroge Oxidized Presence	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc	Odor (C1) eres afon ced Iron ( etion in Pl	ig Living Ro	oots (C3)	Second  Wa  Sec  Drift  Dre  Dry  Thir	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C8)
DROLOG etland Hydra imary Indicat Surface Water High Water Saturation ( Water Mark Sediment D Drift Depos Surface So Inundation	Y  ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri its (B3) (Nonriverine il Cracks (B6)	) verine) e)	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc	Odor (C1) eres afon ced Iron ( etion in Pl	ig Living Ro C4)	oots (C3)	Second Wa Sec Drit Dra Dry Thir Cra Sat	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
DROLOG etland Hydromary Indicat Surface Water Saturation ( Water Mark Sediment E Drift Depos Surface So Inundation	Y  ology Indicators: tors (any one indicate ater (A1)  Table (A2)  A3) s (B1) (Nonriverine Deposits (B2) (Nonri ilts (B3) (Nonriverine il Cracks (B6)  Visible on Aerial Ima	) verine) e)	Salt Crus Biotic Cr Aquatic II Hydroge Oxidized Presence	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc	Odor (C1) eres afon ced Iron ( etion in Pl	ig Living Ro C4)	oots (C3)	Second Wa Sec Drit Dra Dry Thir Cra Sat	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C8)
Properties of the control of the con	Y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri its (B3) (Nonriverine il Cracks (B6) Visible on Aerial Ima	) verine) e) agery (B7)	Salt Crus Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II	ust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc xplain in R	Odor (C1) eres afon ced Iron ( etion in Pl	ig Living Ro C4)	oots (C3)	Second Wa Sec Drit Dra Dry Thir Cra Sat	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
emarks:  'DROLOG  etland Hydre imary Indicat    Surface Wat   High Water   Saturation (   Water Mark   Sediment E   Drift Depos   Surface So   Inundation   Water-Stair eld Observat	Y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri its (B3) (Nonriverine il Cracks (B6) Visible on Aerial Ima ned Leaves (B9) tions: Present? Yes	) (verine) e) agery (B7)	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II Other (Ex	ust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc plain in R	Odor (C1) eres afon ced Iron ( etion in Pl	ig Living Ro C4)	oots (C3)	Second Wa Sec Drit Dra Dry Thir Cra Sat	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
PROLOG Petland Hydromary Indicat Surface Water Saturation ( Water Mark Sediment E Drift Depos Surface So Inundation Water-Stair Eld Observat ater Table Pro	Y ology Indicators: tors (any one indicated (A1) r Table (A2) A3) s (B1) (Nonriverine (B2) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B4) (Nonriverin	iverine) iverine) ie) agery (B7) iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II Other (Ex	rust (B12) nvertebrat n Sulfide ( Rhizosph e of Reduc ron Reduc cplain in R	Odor (C1) eres afon ced Iron ( etion in Pl	ig Living Ro C4) owed Soils	oots (C3)	Second Wa Sec Drit Dre Dry Thir Cra Sat Sha	dary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
PROLOG Petland Hydro Imary Indicat Surface Wa High Water Saturation ( Water Mark Sediment D Drift Depos Inundation Water-Stair High Water Water So Inundation Water-Stair High Water Stair Table Prosturation Presidudes capilla	y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri ils (B3) (Nonriverine il Cracks (B6) Visible on Aerial Ima ned Leaves (B9) tions: Present? Yes esent? Yes ery fringe)	) (verine) e) agery (B7)   No S	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II Other (Ex	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc xplain in R	Odor (C1) teres afon ced Iron (i tion in Pla emarks)	g Living Ro C4) pwed Soils We	oots (C3) (C6)	Seconc  Wa Sec Drit Dra Dry Thir Cra Sat Sha	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
PROLOG Petland Hydro Imary Indicat Surface Wa High Water Saturation ( Water Mark Sediment D Drift Depos Inundation Water-Stair High Water Water So Inundation Water-Stair High Water Stair Table Prosturation Presidudes capilla	Y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri ilts (B3) (Nonriverine il Cracks (B6) Visible on Aerial Ima ned Leaves (B9) tions: Present? Yes esent? Yes	) (verine) e) agery (B7)   No S	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II Other (Ex	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc xplain in R	Odor (C1) teres afon ced Iron (i tion in Pla emarks)	g Living Ro C4) pwed Soils We	oots (C3) (C6)	Seconc  Wa Sec Drit Dra Dry Thir Cra Sat Sha	dary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
PROLOG Petland Hydrorimary Indicat Surface Water Saturation ( Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Hydrorimary Indicat Water-Stain Red Observat Urface Water Stain Presidudes capilla	y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri ils (B3) (Nonriverine il Cracks (B6) Visible on Aerial Ima ned Leaves (B9) tions: Present? Yes esent? Yes ery fringe)	) (verine) e) agery (B7)   No S	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II Other (Ex	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc xplain in R	Odor (C1) teres afon ced Iron (i tion in Pla emarks)	g Living Ro C4) pwed Soils We	oots (C3) (C6)	Seconc  Wa Sec Drit Dra Dry Thir Cra Sat Sha	dary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
PROLOG Petland Hydro Imary Indicat Surface Wa High Water Saturation ( Water Mark Sediment D Drift Depos Inundation Water-Stair Pld Observat Water Water Stair Table Prosecutes capilla	y ology Indicators: tors (any one indicate ater (A1) r Table (A2) A3) s (B1) (Nonriverine Deposits (B2) (Nonri ils (B3) (Nonriverine il Cracks (B6) Visible on Aerial Ima ned Leaves (B9) tions: Present? Yes esent? Yes ery fringe)	) (verine) e) agery (B7)   No S	Salt Crue Biotic Cr Aquatic II Hydroge Oxidized Presence Recent II Other (Ex	rust (B12) nvertebrat n Sulfide ( l Rhizosph e of Reduc ron Reduc xplain in R	Odor (C1) teres afon ced Iron (i tion in Pla emarks)	g Living Ro C4) pwed Soils We	oots (C3) (C6)	Seconc  Wa Sec Drit Dra Dry Thir Cra Sat Sha	dary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Investigator(s): MRS Section, To Landform (hillslope, terrace, etc.): River T Subregion (LRR):D Lat: 45.8600 Soil Map Unit Name: Quicny Loamy Fine Are climatic / hydrologic conditions on the	ampling Point: 7 wnship, Range: T4 errace Local relief Long: -119.3140 Sand NWI classific site typical for this	N, R28E, S (concave, Datum cation: time of ye	Sec. 4 conve i: ar? Y	ex, no es ⊠	l No □ (If	no, explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology Are Vegetation ☐, Soil ☐, or Hydrology	-					mstances" present? Yes ⊠ No ∏ n any answers in Remarks.)
			,			locations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes ⊠ No ☐ Yes ⊠ No ☐ Yes ⊠ No ☐				e Sample in a Wetla	
VEGETATION			~~~~ <u>~</u>			
Tree Stratum (Plot size: )		Absolute % Cover			Indicator Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2. 3.						Total Number of Dominant Species Across All Strata: 1 (B)
4.	Total Cover:					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover.					Prevalence Index worksheet:
1.						
2.						FACW species x 2 =
3.						FAC species x 3 =
4.						FACU species x 4 =
5.	***************************************					UPL speciesx 5 ≃
Herb Stratum (Plot size: 5')	Total Cover:					Column Totals: (A)
1,Phalaris arundinacea	***************************************	95	×	T	FACW	Prevalence Index = B/A =
2.						Hydrophytic Vegetation Indicators:
3.						☐ Dominance Test is >50%
4.						Prevalence Index is =3.01
5.						Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.						
8.					×	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: ) 1. 2.	Total Cover:	<u>95</u>				Hydrophytic Vegetation Present? Yes ⊠ No □
	Total Cover:					Remarks:
% Bare Ground in Herb Stratum	% Cover	of Biotic (	Crust			

inches)	Color (moist)	%	Color (moist)	edox Featu %	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
0-14	10YR3/2	90	10YR4/6	10	С	М			
								:	
				<u> </u>					
									1
ype: C≓Cond	centration, D≕Depl	letion, RM=	Reduced Matrix.	<sup>2</sup> Locati	on: PL≖Por	e Lining, F	RC=Roo	t Channe	el, M=Matrix.
dric Soil Inc	licators: (Applica	able to all I	LRRs, unless ot	herwise n	oted.)				or Problematic Hydric Soils <sup>3</sup> :
Histosol (A	•		☐ Sandy Re					1 cm Mu	ck (A9) (LRR C)
Histic Epip			☐ Stripped					2 cm Muc	ck (A10) ( <b>LRR B</b> )
Black Hist	, ,			ucky Miner					ł Vertic (F18)
	Sulfide (A4)		Loamy G						ent Material (TF2)
	ayers (A5) (LRR C	;)	·	Matrix (F3				Other (E:	xplain in Remarks)
	(A9) ( <b>LRR D</b> ) slow Dark Surface	(011)	☐ Redox Da						
	Surface (A12)	(A11)	☐ Depleted ☐ Redox De						
	ky Mineral (S1)		☐ Vernal Po		(ГО)		3 <sub>lnd</sub>	inatara ai	f hydrophytic vegetation and
•	ed Matrix (S4)		LL VEITIGHT OF	Jis (1 <i>3)</i>					ydrology must be present.
strictive Lay				***************************************			*	vouenu is	ydrology must be present.
	oi (ii picəciit).								
-	ei (ii pieseiic).								
Type:							Lively	ia Sall D	roomt? Voc N. N. I'''
Type: Depth (inche							Hydr	ic Soll P	resent? Yes ⊠ No 🗆
Type: Depth (inche marks:	s):						Hydr	ic Soil P	resent? Yes ⊠ No 🗆
Type: Depth (inche	s):						Hydr		
Type: Depth (inchermarks: DROLOGY	s): , logy Indicators:						Hydr	Seconda	ary Indicators (2 or more reguired)
Type: Depth (inche marks:  DROLOGY etland Hydro mary Indicato	s):  logy Indicators: rs (any one indica	tor is suffic					Hydr	Seconda	
Type: Depth (inchestance) DROLOGY Stiand Hydro mary Indicato Surface Wat	s):  logy Indicators: rs (any one indica er (A1)	tor is suffic	☐ Salt Crus				Hydr	Second:	ary Indicators (2 or more reguired)
Type: Depth (inches marks:  DROLOGY etland Hydro mary Indicato Surface Wat High Water	s):  logy Indicators: rs (any one indica er (A1)  Table (A2)	tor is suffic	☐ Salt Crus	ust (B12)			Hydr	Second: □ Wat	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Type: Depth (inchesemarks:  DROLOGY etland Hydro mary Indicato Surface Wat High Water Saturation (A	s):  logy Indicators: rs (any one indicator (A1) Fable (A2) 3)		☐ Salt Crus	ust (B12)	s (B13)		Hydr	Second:	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (inchesemarks:  DROLOGY etland Hydro imary Indicato Surface Wat High Water Saturation (A Water Marks	s): logy Indicators: rs (any one indicators (A1) lable (A2) 3) (B1) (Nonriverine	e)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydrogei	ust (B12) overtebrate o Sulfide O	dor (C1)			Second:  Wat Sed Drift Drai	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Type: Depth (inchesemarks:  DROLOGY etiand Hydro imary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De	s): logy Indicators: rs (any one indica er (A1) Table (A2) 3) (B1) (Nonriverine	e) iverine)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir	ust (B12) overtebrate o Sulfide O	dor (C1)	ving Roo		Secondary  Wat  Sed  Drift  Drai  Dry-	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine) nage Patterns (B10)
Type: Depth (inchesemarks:  DROLOGY etiand Hydro imary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De	s):  logy Indicators: rs (any one indicators): rs (any one indicators): rable (A2) 3) (B1) (Nonriverine indicators): s (B3) (Nonriverine indicators):	e) iverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic Ir ☐ Hydroges ☑ Oxidized	ust (B12) ivertebrate i Sulfide O Rhizosphe	dor (C1)	ving Roo		Secondary  Wat  Sed  Drift  Drai  Dry- Thin	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Type: Depth (inchesemarks:  DROLOGY etiand Hydro imary indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil	s):  logy Indicators: rs (any one indicator (A1) Table (A2) 3) (B1) (Nonriverine (B2) (Nonriverine (B3) (B6)	a) iverine) ne)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroges ☑ Oxidized ☐ Presence	ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along L		ts (C3)	Secondary  Wat Sed Drift Drai Dry- Thin Cray	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8)
Type: Depth (inche emarks:  DROLOGY etland Hydro imary indicate Surface Water Saturation (A Water Marks Sediment Deposit Surface Soil Inundation V	s):  logy Indicators: rs (any one indicators): rs (any one indicators): rs (A1) Table (A2) 3) (B1) (Nonriverine posits (B2) (Nonriverine (B3) (Nonriverine (	a) iverine) ne)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroges ☑ Oxidized ☐ Presence	ust (B12) overtebrate overtebr	dor (C1) eres along L ed Iron (C4) ion in Plowe		ts (C3)	Second:  Wat Sed Drift Drai  Dry- Thin Cray	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Type: Depth (inche emarks:  DROLOGY etland Hydro imary indicate Surface Water Saturation (A Water Marks Sediment Deposit Surface Soil Inundation V	s):  logy Indicators: rs (any one indicator (A1) Table (A2) 3) (B1) (Nonriverine (B2) (Nonriverine (B3) (B6)	a) iverine) ne)	Salt Crus Biotic Cri Aquatic Ir Hydroger Oxidized Presence	ust (B12) overtebrate overtebr	dor (C1) eres along L ed Iron (C4) ion in Plowe		ts (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (C
Type: Depth (inche emarks:  DROLOGY etland Hydro mary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine	s):  logy Indicators: rs (any one indicater (A1) Table (A2) 3) (B1) (Nonriverine (B2) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B4))	a) iverine) ne)	Salt Crus Biotic Cri Aquatic Ir Hydroger Oxidized Presence	ust (B12) overtebrate overtebr	dor (C1) eres along L ed Iron (C4) ion in Plowe		ts (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (C
Type: Depth (inche emarks:  DROLOGY etland Hydro mary Indicato Surface Wat High Water Saturation (A Water Marks Sediment Deposit Surface Soil Inundation V Water-Staine Id Observation	s):  logy indicators: rs (any one indicater (A1) Table (A2) 3) (B1) (Nonriverine (B2) (Nonriverine (B3) (Nonriverine (B3	a) iverine) ne) agery (B7)	Salt Crus Biotic Cri Aquatic Ir Hydroger Oxidized Presence	ust (B12) Ivertebrate In Sulfide O Rhizosphe In Greduct In Reduct In Reduct In Reduct In Reduct In Reduct	dor (C1) eres along L ed Iron (C4) ion in Plowe		ts (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (C
Type: Depth (inchesemarks:  DROLOGY etland Hydro mary Indicato Surface Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Id Observation face Water P	s):  logy Indicators: rs (any one indicators): rs (any one indicators): re (A1)  (B1) (Nonriverine (B2) (Nonriverine (B3) (Nonriverine (B3	e) iverine) ne) agery (B7)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroges ☐ Oxidized ☐ Presences ☐ Recent Ir ☐ Other (Ex	ust (B12) Ivertebrate In Sulfide O Rhizosphe In Greduct In Reduct In Reduct In Reduct In Reduct In Reduct	dor (C1) eres along L ed Iron (C4) ion in Plowe		ts (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (C
Type: Depth (inchesemarks:  DROLOGY etland Hydro mary Indicato Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Id Observation face Water P ter Table Prese	s):  logy Indicators: rs (any one indicators): rs (any one indicators): rs (any one indicators): rs (B1) (Nonriverine indicators): (B3) (Nonriverine indicators): (B3) (Nonriverine indicators): (Cracks (B6) isible on Aerial Image Leaves (B9) isible on Aerial Image Leaves (B9) isible on Aerial Image Leaves (B9) isible on Aerial Image Im	e) iverine) agery (B7)  S \( \text{No} \text{ \text{No} \text{ \text{S}}}  No \( \text{S} \text{ \text{No} \text{ \text{S}}}	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☑ Oxidized ☐ Presence ☐ Recent Ir ☐ Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduce plain in Re	dor (C1) bres along L ed Iron (C4) ion in Plowe marks)	d Soils (C	ts (C3)	Seconda Wat Sed Drift Drai Thin Cray Satu Shal FAC	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (C
Type: Depth (inchesemarks:  DROLOGY etiand Hydro imary indicate Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Ind Observation frace Water P ster Table Prese cludes capillar	s):  logy Indicators: rs (any one indicators: rs (any one indicators) rable (A2) 3) (B1) (Nonriverine (B2) (Nonriverine (B3) (Nonriverine	e) iverine) agery (B7)  S \( \text{No} \text{ \text{No} \text{ \text{S}}}  No \( \text{S} \text{ \text{No} \text{ \text{S}}}	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☑ Oxidized ☐ Presence ☐ Recent Ir ☐ Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduce plain in Re	dor (C1) bres along L ed Iron (C4) ion in Plowe marks)	d Soils (C	ts (C3)	Seconda Wat Sed Drift Drai Thin Cray Satu Shal FAC	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (Cllow Aquitard (D3) -Neutral Test (D5)
Type: Depth (inche emarks:  DROLOGY etiand Hydro imary indicate Surface Wate High Water Saturation (A Water Marks Sediment Deposit Surface Soil Inundation V Water-Staine aid Observation face Water Peter Table Presturation Presecludes capillar scribe Record	s):  logy Indicators: rs (any one indicators): rs (any one indicators): rs (any one indicators): rs (B1) (Nonriverine indicators): (B3) (Nonriverine indicators): (B3) (Nonriverine indicators): (Cracks (B6) isible on Aerial Image Leaves (B9) isible on Aerial Image Leaves (B9) isible on Aerial Image Leaves (B9) isible on Aerial Image Im	e) iverine) agery (B7)  S \( \text{No} \text{ \text{No} \text{ \text{S}}}  No \( \text{S} \text{ \text{No} \text{ \text{S}}}	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☑ Oxidized ☐ Presence ☐ Recent Ir ☐ Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduce plain in Re	dor (C1) bres along L ed Iron (C4) ion in Plowe marks)	d Soils (C	ts (C3)	Seconda Wat Sed Drift Drai Thin Cray Satu Shal FAC	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (Cllow Aquitard (D3) -Neutral Test (D5)
Type: Depth (inchesemarks:  DROLOGY etiand Hydro imary indicate Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Id Observation face Water P iter Table Presecutes capillar	s):  logy Indicators: rs (any one indicators): rs (any one indicators): rs (any one indicators): rs (B1) (Nonriverine indicators): (B3) (Nonriverine indicators): (B3) (Nonriverine indicators): (Cracks (B6) isible on Aerial Image Leaves (B9) isible on Aerial Image Leaves (B9) isible on Aerial Image Leaves (B9) isible on Aerial Image Im	e) iverine) agery (B7)  S \( \text{No} \text{ \text{No} \text{ \text{S}}}  No \( \text{S} \text{ \text{No} \text{ \text{S}}}	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☑ Oxidized ☐ Presence ☐ Recent Ir ☐ Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduce plain in Re	dor (C1) bres along L ed Iron (C4) ion in Plowe marks)	d Soils (C	ts (C3)	Seconda Wat Sed Drift Drai Thin Cray Satu Shal FAC	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) Iration Visible on Aerial Imagery (Cllow Aquitard (D3) -Neutral Test (D5)

Project/Site: Hermiston LWI	concave, co Datun fication: s time of ye sturbed? ematic?	onvex, n; ar? Y Ard (If	none): Side S es ⊠ No □ e "Normal Circ needed, expl	(If no, explain in Remarks.) cumstances" present? Yes ⊠ No □ ain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling poin	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☐ Hydric Soif Present? Yes ☐ No ☐ Wetland Hydrology Present? Yes ☐ No ☐ Remarks:			is the Samp	
VEGETATION				
Tree Stratum (Plot size: )  1.	Absolute % Cover		inant Indicat cies? Status	1
2. 3.				Total Number of Dominant Species Across All Strata: 4 (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover   Sapling/Shrub Stratum (Plot size: 5')	<u> </u>			Prevalence Index worksheet:
1.Salix alba	60	х	FACW	Total % Cover of: Multiply by:
2. Cornus alba	10		FACW	OBL species x1=
3.				FACW species x 2 =
4.				FAC species x3 =
5.		<del>                                     </del>		FACU species x4=
		<b></b>		UPL species x 5 =
Total Cover <u>Herb Stratum</u> (Plot size: 5')	: <u>70</u>			(B)
1.Phalaris arundinacea	20	х	FACW	Prevalence Index = B/A =
2.Distichlis spicata	10	х	FAC	Hydrophytic Vegetation Indicators:
3.				Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover Woody Vine Stratum (Plot size: )  1. Clematis ligusticifolia  2.	:: <u>30</u> 40	x	FAC	Hydrophytic Vegetation Present? Yes 🔯 No 🔲
Total Cove	r: 40			Remarks:
% Bare Ground in Herb Stratum 60 % Co	ver of Biotic	: Crust	<del>\</del>	

CSL	Depth inches)	Matrix Color (moist)	%	Color (moist)	dox Feature%	Type <sup>1</sup>	Loc²	<u>Tex</u>	ture .	Remarks
Indicator for Problematic Hydric Soils*:   Histor (A1)	0-14	10YR3/2	100					CSIL		
Indicators (Applicable to all LRRs, unless otherwise notad.)  Indicators (Applicable to all LRRs, unless otherwise notad.)  Indicators (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise notad.)  I c mw. (Applicable (Applicable to all LRRs, unless otherwise (Explain in Remarks)  I c mw. (Applicable (Explain in Remark									·	
Indicators (Applicable to all LRRs, unless otherwise noted.)  Indicators (Applicable to all LRRs, unless otherwise noted.)  Indicators (Applicable to all LRRs, unless otherwise noted.)  I c m Muck (A9) (LRR C)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR B)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A10) (LRR			<del> </del>							
Indicators (Applicable to all LRRs, unless otherwise noted.)  Indicators (Applicable to all LRRs, unless otherwise noted.)  Indicators (Applicable to all LRRs, unless otherwise noted.)  I c m Muck (A9) (LRR C)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR B)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A9) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A10) (LRR C)  I c m Muck (A10) (LRR	+						,			
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Indicators (Applicable to all LRRs, unless otherwise noted.)   I com Muck (A9) (LRR C)   I com Muck (A9) (LRR C)   Black Histic (A3)   Loamy Mucky Mineral (F1)   Red Develored Vertic (F18)   Hydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Red Parent Material (T12)   Stratified Layers (A5) (LRR C)   Depleted Matrix (F2)   Red Parent Material (T12)   I com Muck (A9) (LRR D)   Redox Depressions (F8)   Depleted Below Dark Surface (A11)   Depleted Dark Surface (F7)   Thick Dark Surface (A12)   Redox Depressions (F8)   Sandy Mucky Mineral (S1)   Vernal Pools (F9)   Administrative vegetation and wetland hydrology must be present.   Sarticitive Layer (if present): Type:   Depth (Inches):   Hydric Soil Present?			7							
Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators: (Applicable to all LRRs, unless otherwise noted.)  I cm Muck (A9) (LRR C)  I cm Muck (A9) (LRR C)  I cm Muck (A9) (LRR D)  I cm Muck (A10) (LRR B)  I cm Muck (A10) (LR	***************************************									
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators (A1)							***************************************			
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Indicators (Applicable to all LRRs, unless otherwise noted.)   I com Muck (A9) (LRR C)   I com Muck (A9) (LRR C)   Black Histic (A3)   Loamy Mucky Mineral (F1)   Red Develored Vertic (F18)   Hydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Red Parent Material (T12)   Stratified Layers (A5) (LRR C)   Depleted Matrix (F2)   Red Parent Material (T12)   I com Muck (A9) (LRR D)   Redox Depressions (F8)   Depleted Below Dark Surface (A11)   Depleted Dark Surface (F7)   Thick Dark Surface (A12)   Redox Depressions (F8)   Sandy Mucky Mineral (S1)   Vernal Pools (F9)   Administrative vegetation and wetland hydrology must be present.   Sarticitive Layer (if present): Type:   Depth (Inches):   Hydric Soil Present?										
Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators: (Applicable to all LRRs, unless otherwise noted.)  I cm Muck (A9) (LRR C)  I cm Muck (A9) (LRR C)  I cm Muck (A9) (LRR D)  I cm Muck (A10) (LRR B)  I cm Muck (A10) (LR			<u> </u>			<u></u>	······································			
Histosol (A1)					<sup>2</sup> Locatio	n: PL≕Po	e Lining,			
Histo Epipedon (A2)			able to all L			ted.)				•
Black Histic (A3)		· ,								
Hydrogen Sulfide (A4)					, ,	J /E4)				
Stratified Layers (A5) (LRR C)		, ,								
Tem Muck (A9) (LRR D)			C)		-	(12)				• •
Depleted Below Dark Surface (A11)			,	•	, ,	(F6)		لسا	J (L	reposit in Frontains)
Thick Dark Surface (A12)	Depleted E	Below Dark Surface	e (A11)			. ,				
Sandy Gleyed Matrix (S4) wetland hydrology must be present.  strictive Layer (if present): Type:  Depth (inches):  Mary Indicators:  Mary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Salt Crust (B12)  Mater Table (A2)  Salt Crust (B12)  Saturation (A3)  Water Marks (B1) (Riverine)  Aquatic Invertebrates (B13)  Mater Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Plowed Soils (C6)  Saturation Visible on Aerial Imagery (B7)  d Observations:  face Water Present?  Yes No Depth (inches):  wration Present?  Yes No Dep				Redox De	oressions (	F8)				
Secondary Indicators (2 or more required)  Type:  DROLOGY  tland Hydrology Indicators:  Secondary Indicators (2 or more required)  Mater Marks (B1) (Riverine)  Surface Water (A1)  Surface Water (A1)  Salt Crust (B11)  Salt Crust (B12)  Saturation (A3)  Aquatic Invertebrates (B13)  Mater Marks (B1) (Ronriverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Thin Muck Surface (C7)  Dry-Season Water Table (C2)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Thin Muck Surface (C7)  Dry-Season Water Table (C2)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Thin Muck Surface (C7)  Dry-Season Water Table (C2)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Thin Muck Surface (C7)  Dry-Season Water Table (C2)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Thin Muck Surface (C7)  Dry-Season Water Table (C2)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Thin Muck Surface (C7)  Dry-Season Water Table (C2)  Sediment Deposits (B3)  Triangle Patients  Secondary Indicators (2 or more required)  Mater Marks (B1) (Riverine)  Drift Deposits (B3)				☐ Vernal Poo	ls (F9)					
Depth (Inches):    Depth (Inches):									wetland h	ydrology must be present.
Depth (inches):    Mydric Soll Present? Yes   No	Strictive La	(yer (if present):								
DROLOGY  Itland Hydrology Indicators:  Mary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Dry-Season Water Table (C2)  Sediment Deposits (B2) (Nonriverine)  Dry-Season Water Table (C2)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Plowed Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  d Observations:  face Water Present?  Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  water Present?  Yes No Depth (inches):  water Present?  Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  water Stailed Leaves (B4)  Wetland Hydrology Present? Yes No Depth (inches):  water Present? Yes No Depth (inche	<del>-</del>									
DROLOGY    Stand Hydrology Indicators:   Secondary Indicators (2 or more required)										
Secondary Indicators (2 or more required)  Mater Marks (B1) (Riverine)  Surface Water (A1)	Depth (inch							Hydi	ric Soll P	'resent? Yes ☐ No ⊠
Mary Indicators (any one indicator is sufficient)  Surface Water (A1)	Depth (inch marks:	es):						Hydi	ric Soll P	'resent? Yes ☐ No ☒
Surface Water (A1)	Depth (inch marks: DROLOG	es): Y						Hydi		
High Water Table (A2)	Depth (inch marks: DROLOG	es): Y ology Indicators:	ator is suffici	ent)				Hydi	Second	ary Indicators (2 or more required)
Saturation (A3)	Depth (inch marks: DROLOG etland Hydro mary Indicat	es):  Y  plogy Indicators: ors (any one indica	ator is suffici		· (B11)			Hydi	Second	ary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Depth (inch marks: DROLOG etland Hydro mary Indicat Surface Wa	es):  Y  ology Indicators: ors (any one indicators)	ator is suffici	☐ Salt Crus				Hydi	Second  Wat	ary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> )
Sediment Deposits (B2) (Nonriverine)	Depth (inch marks: DROLOG etland Hydro mary Indicat Surface Wa High Water	Y plogy Indicators: cors (any one indicater (A1) Table (A2)	ator is suffici	☐ Salt Crust	st (B12)	s (B13)		Hydı	Second  Wat  Sed	ary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> )
Drift Deposits (B3) (Nonriverine)	Depth (inchemarks:  DROLOGetland Hydromary Indicated High Water Saturation (inchemary)	Y plogy Indicators: ors (any one indicater (A1) Table (A2)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	st (B12) vertebrates	· · · · · · · · · · · · · · · · · · ·		Hydı	Second  Wat  Sed  Driff  Draf	ary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
Surface Soil Cracks (B6)	Depth (inchemarks:  DROLOG  etland Hydromary Indicat  Surface Water High Water Saturation (inchemarks)	Y cology Indicators: cors (any one indicater (A1) Table (A2) A3) s (B1) (Nonriverin	e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	st (B12) vertebrates Sulfide Oc	dor (C1)	iving Ro		Second  Wat  Sed  Drift  Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Inundation Visible on Aerial Imagery (B7)	Depth (inchemarks:  DROLOG  etland Hydromary Indicat  Surface Water  High Water  Saturation (A	Y  pology Indicators: cors (any one indicater (A1) Table (A2) A3) s (B1) (Nonriverin	e) riverine)	☐ Salt Crusi ☐ Biotic Cru ☐ Aquatic In: ☐ Hydrogen ☐ Oxidized	st (B12) vertebrates Sulfide Oo Rhizosphei	dor (C1) res along l			Second  Wat  Sed  Drift  Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Id Observations:  Iface Water Present? Yes No Depth (inches):  Iter Table Present? Yes No Depth (inches):  Ite	Depth (inchemarks:  DROLOG etland Hydre imary Indicat Surface Wa High Water Saturation (inchemark) Water Marks Sediment D Drift Deposit	es):  Y  plogy Indicators: cors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin Deposits (B2) (Nonits (B3) (Nonriverin	e) riverine)	☐ Salt Crusi ☐ Biotic Cru ☐ Aquatic In: ☐ Hydrogen ☐ Oxidized I	st (B12) vertebrates Sulfide Oo Rhizosphei of Reduce	dor (C1) res along I d Iron (C4	)	ots (C3)	Second  Wate Sed  Driff  Drait  Dry- Thin  Cray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
rface Water Present? Yes No Depth (inches): ster Table Present? Yes	Depth (inchemarks:  DROLOG etland Hydro mary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi	y  pology Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin Deposits (B2) (Nonits (B3) (Nonriverin) of (Cracks (B6))	e) riverine) ne)	Salt Crusi Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along l d Iron (C4 on in Plow	)	ots (C3)	Second  Wat Sed Driff Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) aration Visible on Aerial Imagery (C5)
ter Table Present?  Yes No Depth (inches):  uration Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inchemarks:  DROLOG etland Hydromary Indicat Surface Water Saturation (inchemarks) Water Marks Sediment D Drift Deposi Surface Soi Inundation (inchemarks)	Y plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (	e) riverine) ne)	Salt Crusi Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along l d Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Driff  Drai  Pry- Thin  Cray  Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct
uration Present? Yes ☐ No ☒ Depth (inches):  dudes capillary fringe)  scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:	Depth (inchemarks:  DROLOG  etland Hydromary Indicat  Surface Water Saturation (inchemarks) Water Marks Sediment D Drift Deposi Surface Soil Inundation (inchemarks)	Y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonriverin Deposits (B2) (Non its (B3) (Nonriveri il Cracks (B6) Visible on Aerial Im ned Leaves (B9)	e) riverine) ne)	Salt Crusi Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along l d Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Driff  Drai  Pry- Thin  Cray  Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct
uration Present? Yes ☐ No ☒ Depth (inches):  dudes capillary fringe)  scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inchemarks:  DROLOG  etland Hydromary Indicat  Surface Water Saturation (A) Water Marks Sediment D Drift Deposi Surface Soi Inundation (A) Water-Stain Id Observat	y  pology Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin Deposits (B2) (Non its (B3) (Nonriveri il Cracks (B6) Visible on Aerial Im ned Leaves (B9) tions:	e) riverine) ne) nagery (B7)	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized Int Presence Recent Iro Other (Exp	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along l d Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Driff  Drai  Pry- Thin  Cray  Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inchemarks:  DROLOG  etland Hydro  mary Indicat  Surface Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain Id Observat face Water F	y  pology Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Non its (B3) (Nonrivering if Cracks (B6) Visible on Aerial Impled Leaves (B9) tions: Present?	e) riverine) ne) nagery (B7) es  No  🖂	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized Presence Recent Int Other (Exp	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along l d Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Driff  Drai  Pry- Thin  Cray  Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct
narks:	Depth (inchemarks:  DROLOG etland Hydro mary Indicat Surface Water Saturation (inchemary Indicater) Water Marks Sediment D Drift Deposi Surface Soi Inundation (inchemary Indicater) Water-Stain Id Observat face Water Filter Table Presuration Pres	y cology Indicators: cors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	e) riverine) ne) nagery (B7) es  No  so	Salt Cruss Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In Other (Exp	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along l d Iron (C4 on in Plow	ed Soils (	ots (C3)	Second  Wat Sed Drift Dry- Thin Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C6) llow Aquitard (D3) C-Neutral Test (D5)
	Depth (inchemarks:  DROLOG  etland Hydro  mary Indicat  Surface Water Marks  Sediment D  Drift Deposi  Surface Soi  Inundation V  Water-Stain  Id Observat  face Water I  ster Table Prosecutation Presecutes capilia	es):  Y  ology Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonits (B3) (Nonrivering	e) riverine) ne) nagery (B7) s \( \text{No} \text{ \text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\texi{\text{\texi{\texit{\texi{\texi\texi{\text{\texi{\texi{\texi\texi{\texi\texi{\texi{\texi}\texit{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized Presence Recent Int Other (Exp	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reductio	dor (C1) res along I d Iron (C4 on in Plow narks)	ed Soils (	ots (C3)	Second  Sed  Driff  Drai  Thin  Cray  Satu  FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C6) llow Aquitard (D3) C-Neutral Test (D5)
	Depth (inchemarks:  DROLOG  etland Hydro imary Indicat  Surface Water Saturation (A) Water Marks Sediment D Drift Deposi Surface Soi Inundation (A) Water-Stain Id Observate rface Water Forter Table Presidudes capilia	es):  Y  ology Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonits (B3) (Nonrivering	e) riverine) ne) nagery (B7) s \( \text{No} \text{ \text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\texi{\text{\texi{\texit{\texi{\texi\texi{\text{\texi{\texi{\texi\texi{\texi\texi{\texi{\texi}\texit{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized Presence Recent Int Other (Exp	st (B12) vertebrates Sulfide Oc Rhizospher of Reduce on Reductio	dor (C1) res along I d Iron (C4 on in Plow narks)	ed Soils (	ots (C3)	Second  Sed  Driff  Drai  Thin  Cray  Satu  FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C6) llow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston S	ampling Date:	7/10/12	!	
Applicant/Owner: State: OR Sampling Point:	9			
Investigator(s): MRS Section, Township, Range	: T4N, R28E, S	Sec. 9		
Landform (hillslope, terrace, etc.): Drainage Ditch Local	relief (concave	e, convex	x, none): Conc	cave Slope (%):1%
Subregion (LRR):D Lat: 45.8421 Long: -119.323	37 Datum	1:		
Soil Map Unit Name: Xerofluvents NWI classification:				
Are climatic / hydrologic conditions on the site typical for	this time of ve	ar? Yes	⊠ No □ (If	no. explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly				nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally pro				any answers in Remarks.)
······ / ····		·	·	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No [			41 61	
Hydric Soil Present? Yes ⊠ No ☐			s the Sampled tithin a Wetlar	
Wetland Hydrology Present? Yes ⊠ No □		, w	numi a vveudi	IIII IES 🖂 NO 🔯
Remarks:				
VEGETATION				
Tree Stratum (Plot size:	Absolute % Cover		ant Indicator s? Status	Dominance Test worksheet: Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 3 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: <u>3</u> (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Total Co	ver:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')		r <del></del>		Total % Cover of: Multiply by:
2.				OBL species x1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5,				FACU species x 4 =
				UPL species x 5 =
Total Co Herb Stratum (Plot size: 5')	ver:			Column Totals: (A)
1.Phalaris arundinacea	30	х	FACW	Prevalence Index = B/A =
2.Typha latifolia	20	X	OBL	Hydrophytic Vegetation Indicators:
3.Solanum dulcamara	50	х	FAC	□ Dominance Test is >50%
4.Rumex crispus	t		FAC	Prevalence Index is ≈3.0¹
5.Mentha sp.	t			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Co	ver: 100			
Woody Vine Stratum (Plot size: )				Hydrophytic
1.				Vegetation
2. Total Co	ver: 40			Present? Yes No 🗆
		7 m / m ł		Remarks:
% Bare Ground in Herb Stratum 0 % C	over of Biotic (	ノいいろし		

1 TOING DESCI	ription: (Describe	to the de	pth needed to do	cument tl	he indicate	or or confi	rm the abs	sence of inc	dicators.)
Depth	Matrix			edox Feat		1 ( 2	<b></b>		ъ.
(inches)	Color (moist)	%	Color (moist)	%	Type	1 Loc2	Textu	ıre	Remarks
0-14	2.5Y4/2	97	19YR3/4	3	С	M	S		
					***************************************				
								***************************************	
***************************************									
					***************************************			***************************************	
				·					
		1					1	i,i	
Type: C≕Cor	ncentration, D=Dep	oletion, RM	≃Reduced Matrix	<sup>2</sup> i ocat	lion PI ≃P	ore Linina	RC=Root	Channel, M	=Matriv
lydric Soil In	dicators: (Applic	able to all	LRRs, unless of	herwise r	noted.)	ore Entiring,			roblematic Hydric Soils <sup>3</sup> :
Histosol (			⊠ Sandy Re		,				A9) (LRR C)
	ipedon (A2)		☐ Stripped		5)				10) (LRR B)
Black His	· •		Loamy N				□R	leduced Ver	tic (F18)
	n Sulfide (A4) Layers (A5) (L <b>RR</b> (	<b>^</b>	☐ Loamy G						Material (TF2)
	Layers (A5) (L <b>RR</b> 1 k (A9) (L <b>RR D</b> )	<b>(</b> )	☐ Depleted ☐ Redox D					ther (Explai	n in Remarks)
	Below Dark Surface	e (A11)	and the second s	Dark Surf					
	Surface (A12)	- ( /		epressions					
	cky Mineral (S1)		☐ Vernal Po	•			<sup>3</sup> India	ators of hyd	Irophytic vegetation and
	yed Matrix (S4)								logy must be present.
	yer (if present):								
Type:							1		
Depth (inch	es);					·	Hydric	: Soil Prese	ent? Yes⊠ No⊡
	es);			***************************************			Hydric	: Soil Prese	ent? Yes⊠ No 🗆
Depth (inch	es):						Hydric	Soil Prese	ent? Yes⊠ No□
Depth (inch	es);						Hydric	: Soil Prese	ent? Yes⊠ No⊡
Depth (inch	es):		·····	•		· · · · · · · · · · · · · · · · · · ·	Hydrid	: Soil Prese	ent? Yes⊠ No 🗌
Depth (inch emarks:						·····	Hydrid	: Soil Prese	ent? Yes⊠ No □
Depth (inchitemarks:	Y								
Depth (inch temarks: DROLOG /etland Hydro	Y Plogy Indicators:	ator is suffi	cient) .					Secondary I	ndicators (2 or more required
Depth (inchesemarks:  DROLOG  Vetland Hydrorimary Indicate	Y plogy Indicators: ors (any one indica	ator is suffi		St (B11)				Secondary I	ndicators (2 or more required arks (B1) ( <b>Riverine</b> )
Depth (inchesemarks:  */DROLOG* /etland Hydrorimary Indicate*  *  Surface Wa	Y plogy Indicators: ors (any one indicater (A1)	ator is suffi	☐ Sait Cru					Secondary I	ndicators (2 or more required larks (B1) (Riverine) nt Deposits (B2) (Riverine)
Depth (inch temarks: 'DROLOG' /etland Hydro rimary Indicate Surface Wa High Water	Y plogy Indicators: ors (any one indica ater (A1) Table (A2)	ator is suffi	☐ Salt Crue	ust (B12)	es (B13)		S [	Secondary I Water M Sedimer Drift Dep	ndicators (2 or more required larks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine)
Depth (inches lemarks:  /DROLOG' /etland Hydrorimary Indicate   Surface Water   High Water   Saturation (/	Y plogy Indicators: ors (any one indica ater (A1) Table (A2)		☐ Salt Crue ☐ Biotic Cr ☐ Aquatic I	ust (B12) nvertebrat			S [	Secondary   Water M Sedimer Drift Dep	ndicators (2 or more required larks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10)
Depth (inch Remarks: PROLOGI Vetland Hydrorimary Indicate Surface Wall High Water Saturation (value)	Y plogy Indicators: ors (any one indicater (A1) Table (A2)	<b>e</b> )	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic II ☐ Hydroge	ust (B12) nvertebrat n Sulfide (	Odor (C1)	Living Ro	S 	Secondary I Water M Sedimer Drift Dep Drainage Dry-Sea	ndicators (2 or more required arks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2)
Depth (inch Remarks: 'DROLOG' Vetland Hydro rimary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin	e) riverine)	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic II ☐ Hydroge	ust (B12) nvertebrat n Sulfide ( Rhizosph	Odor (C1) eres along	Living Ro	S [ [ [ [ [ ] []	Secondary I  Water M  Sedimer  Drift Dep  Drainage  Dry-Seae  Thin Muc	ndicators (2 or more required arks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2) k Surface (C7)
Depth (inches Remarks:  YDROLOG  Yetland Hydro  rimary Indicate  Surface Wa  High Water  Saturation (inches)  Water Marks  Water Marks  Sediment D  Drift Deposi  Surface Soi	Y plogy Indicators: ors (any one indicators (A1) Table (A2) A3) s (B1) (Nonriverin eposits (B2) (Nonriverin its (B3) (Nonriveri	e) riverine) ne)	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Ii ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii	ust (B12) nvertebrati n Sulfide ( Rhizosph e of Reduc	Odor (C1) eres along ced Iron (C	4)		Secondary I  Water M Sedimer Drift Dep Drainage Dry-Sear Thin Muc Crayfish	ndicators (2 or more required arks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8)
Depth (inch Remarks: /DROLOG' /etland Hydro rimary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \	Y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	e) riverine) ne)	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Ii ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii	ust (B12) nvertebrate n Sulfide ( Rhizosph e of Reduction Reduc	Odor (C1) eres along ced Iron (C tion in Ploy	4)		Secondary    Water M  Sedimer  Drift Dep  Drainage  Dry-Sead Thin Muc  Crayfish  Saturatic	ndicators (2 or more required larks (B1) (Riverine) at Deposits (B2) (Riverine) cosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8) on Visible on Aerial Imagery (Carrows (C8)
Depth (inch Remarks: /DROLOG /etland Hydrorimary Indicata 3 Surface Wa 3 High Water 3 Saturation (including the second 3 Water Marks 4 Sediment Day 10 Drift Depositation (including the second	Y  ology Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	e) riverine) ne)	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Ii ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii	ust (B12) nvertebrate n Sulfide ( Rhizosph e of Reduction Reduc	Odor (C1) eres along ced Iron (C tion in Ploy	4)	S [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Secondary    Water M  Sedimer  Drift Dep  Drainage  Dry-Sear  Thin Muc  Crayfish  Saturatic  Shallow	ndicators (2 or more required arks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8)
Depth (inch Remarks:  /DROLOG /etland Hydro rimary Indicat / Surface Wa / High Water / Saturation (/ / Water Marks / Sediment D / Drift Deposi / Surface Soi / Inundation \ / Water-Stain / Water-Stain / Eld Observat	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	e) riverine) ne)	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Ii ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii	ust (B12) nvertebrate n Sulfide ( Rhizosph e of Reduction Reduc	Odor (C1) eres along ced Iron (C tion in Ploy	4)	S [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Secondary    Water M  Sedimer  Drift Dep  Drainage  Dry-Sear  Thin Muc  Crayfish  Saturatic  Shallow	ndicators (2 or more required larks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8) on Visible on Aerial Imagery (CAquitard (D3)
Depth (inch Remarks:  /DROLOG /etland Hydro rimary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain	Y plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nongits (B2) (Nongits (B3) (Nonrivering (B3) (Nongits (B6)) Visible on Aerial Impled Leaves (B9) ions:	e) riverine) ne) nagery (B7	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Ii ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii	ust (B12) nvertebraten Sulfide ( Rhizosph e of Reduction Reduction plain in Re	Odor (C1) eres along ced Iron (C tion in Ploy	4)	S [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Secondary    Water M  Sedimer  Drift Dep  Drainage  Dry-Sear  Thin Muc  Crayfish  Saturatic  Shallow	ndicators (2 or more required larks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8) on Visible on Aerial Imagery (CAquitard (D3)
Depth (inches Remarks:  **TOROLOG**  Vetland Hydrorimary Indicate**    Surface Water     Saturation (inches     Water Markster     Sediment Deposite     Drift Deposite     Surface Soite     Inundation (inches	Y  plogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverin leposits (B2) (Nonriverin I Cracks (B6) visible on Aerial Imed Leaves (B9) ions: Present? Ye	e) riverine) ne) nagery (B7	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Is ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Is ☐ Other (Ex	ust (B12) nvertebrate n Sulfide ( Rhizosph e of Reduct ron Reduct plain in Re	Odor (C1) eres along ced Iron (C tion in Ploy	4)	S [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Secondary    Water M  Sedimer  Drift Dep  Drainage  Dry-Sear  Thin Muc  Crayfish  Saturatic  Shallow	ndicators (2 or more required larks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8) on Visible on Aerial Imagery (CAquitard (D3)
Depth (inch temarks: /DROLOG' /etland Hydro rimary Indicat   Surface Wa   High Water   Saturation (   Water Marks   Sediment D   Drift Deposi   Surface Soi   Inundation \   Water-Stain   Water Face Water F	Y  plogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverin teposits (B2) (Nonriverin I Cracks (B6) Visible on Aerial Im ted Leaves (B9) tions: Present? Yesent? Yesent? Yesent? Yesent? Yesent?	e) riverine) ne) nagery (B7 es ⊠ No [ es □ No [	☐ Salt Crue ☐ Biotic Cr ☐ Aquatic Ii ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii ) ☐ Other (Ex	ust (B12) nvertebrati n Sulfide ( Rhizosph e of Reduction Reduction ron Reduction Reduction plain in Re	Odor (C1) eres along ced Iron (C tion in Ploy	4) wed Soils (	S [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	Secondary    Water M  Sedimer  Drift Dep  Drainage  Dry-Seat  Thin Muc  Crayfish  Saturatic  Shallow  FAC-Neu	ndicators (2 or more required larks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2) k Surface (C7) Burrows (C8) on Visible on Aerial Imagery (CAquitard (D3)

Project/Site: Hermiston LWI City/County: Hermiston Sar	mpling Date:	7/10/	12			
Applicant/Owner: State: OR Sampling Point: 10	1					
Investigator(s): MRS Section, Township, Range: 1	T4N, R28B, S	Sec. 9				
Landform (hillslope, terrace, etc.): Terrace Local relief (cor	ncave, conve	ex, no	ne): N	lone Slope	e (%):0-3	
Subregion (LRR):D Lat: 45.8421 Long: -119.3237			,	•		
Soil Map Unit Name: Xerofluvents NWI classification:		.,				
Are climatic / hydrologic conditions on the site typical for th	is time of vo	ar2 V	os M	No.□ (If	no evolain in Remarks \	
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly di	•					<b></b>
					mstances" present? Yes ⊠ No [	<del>-</del> T
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally probl	ematic?	(11	need	led, explain	n any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point l	ocations, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			la ti	ie Sample	d Arna	
Hydric Soil Present? · Yes ☐ No 🗵				in a Wetla		
Wetland Hydrology Present? Yes ☐ No ☒			** 14.1	iiii a vvoila		
Remarks:						
VEGETATION						
Tree Stratum (Plot size:	Absolute % Cover			Indicator Status	Dominance Test worksheet:	
1.		ī			Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.		<del> </del>			Total Number of Dominant	
3.		<del> </del>			Species Across All Strata:	<u>2</u> (B)
4.		<b></b> -			Percent of Dominant Species	
		<b></b>	1.		That Are OBL, FACW, or FAC:	0 (A/B)
Total Cove	r:				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 5')		<u></u>			Total % Cover of:	Multiply by:
2.					OBL species	
3,		ļ			FACW species	x 2 =
4.		ļ			FAC species	x 3 =
5.		ļ			FACU species	x 4 =
0.		L				x 5 =
Total Cove	Γ;				Column Totals:(B)	(A)
Herb Stratum (Plot size: 5')  1.Bromus tectorum	10	T		NOL	Prevalence Index = B/A =	
2. Triticum sp.	40	x	_	NOL	Hydrophytic Vegetation Indica	
3.Onopordum acanthium	30	X		NOL	☐ Dominance Test is >50%	
4.Lactuca serriola	5	-		FACU	Prevalence Index is =3.0	1
5.Arctium sp.		ļ			Morphological Adaptation	
6.					data in Remarks or on a	
7.					Problematic Hydrophytic	: Vegetation' (Explain)
8.					<sup>1</sup> Indicators of hydric soil and we	tland hydrology must
		L			be present.	aana nyarotogy must
Total Cove	r: <u>85</u>					
Woody Vine Stratum (Plot size: )					Hydrophytic	
1.					Vegetation Present? Yes	No <u>⊠</u>
2. Total Cove	r: 40					
		-			Remarks:	
9/ Para Ground in Herb Stratum 15 % Co	wer of Biotic	Crust	1		1	

Sampling Point: 10

	Color (moist)	<u>%</u>	Color (moist)	%_	Type <sup>1</sup>	<u>Loc²</u>	Tex	ture		Rer	narks	
0-14	2.5Y4/3	100			I		s		T			
				ļ							······································	
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	<u></u>	L		J	<u>.</u>	L	l		J			
Type: C=Cond	entration, D≃Deple	tion, RM≂R	teduced Matrix.	<sup>2</sup> Locatio	on: PL=Po	ore Linina.	RC=Roo	t Channe	el. M=Ma	atrix.		
lydric Soil Ind	licators: (Applicat	ole to all LI	RRs, unless ot	herwise no	oted.)		Indi	cators f	or Probl	ematic F	lydric Soils <sup>3</sup> :	
] Histosol (A	<b>\1)</b>		☐ Sandy Re	dox (S5)						(LRR C)		
] Histic Epip	edon (A2)		☐ Stripped I							(LRR B)		
] Black Histi			□ Loamy M	ucky Miner	al (F1)				d Vertic (			
	Sulfide (A4)		Loamy Gl					Red Par	ent Mate	rial (TF2)	)	
	ayers (A5) (LRR C)		Depleted					Other (E	xplain in	Remarks	s)	
	(A9) (LRR D)		Redox Da									
	elow Dark Surface (	A11)		Dark Surfa								
	Surface (A12) ky Mineral (S1)		☐ Redox De		(F8)		3, ,,					
	ed Matrix (S4)		☐ Vernal Po	ois (F9)							etation and present.	
<u></u>	er (if present):				·····		v	velianu i	iyarology	/ must be	present.	
	( p. 000).											
Type:												
Type:	e):						11					
Depth (inche	s):						Hydr	ic Soil F	resent?	Yes [	□ No 🗵	<del></del>
Depth (inche emarks:		·					Hydr	ic Soil F	resent?	Yes [	□ No 🛚	
Depth (inche emarks:	•						Hydr					
Depth (inche emarks:  'DROLOGY  'etland Hydrol	, logy indicators:	ar is sufficient	nt)				Hydr	Second	ary Indic	ators (2 o	or more reguire	<u>d)</u>
Depth (inche emarks:  'DROLOGY etland Hydrol rimary Indicato	, logy Indicators: rs (any one indicato	or is sufficie					Hydr	Second	ary Indic	ators (2 o	or more require	<u>a)</u>
Depth (inche emarks:  DROLOGY  etland Hydrol rimary Indicato   Surface Wat	, logy Indicators: rs (any one indicato er (A1)	or is sufficie	☐ Salt Crus	•			Hydr	Second Wa	ary Indic ter Marks liment Do	eators (2 c s (B1) ( <b>Ri</b> eposits (E	or more require iverine) 32) (Riverine)	<u>d)</u>
Depth (inche emarks:  DROLOGY  etland Hydrol imary Indicato  Surface Wat  High Water 1	logy Indicators: rs (any one indicato er (A1) Fable (A2)	or is sufficie	☐ Salt Crus	ust (B12)	- (542)		Hydr	Second  Wa Sec	ary Indic ter Marks liment Do t Deposit	ators (2 des (B1) (Riese) (B2) (B2) (B3) (Riese)	or more require iverine) 32) (Riverine) liverine)	<u>d)</u>
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Depth (inche emarks:  "DROLOGY  etland Hydrol rimary Indicato    Surface Wate    High Water    Saturation (A    Water Marks	rogy Indicators: rs (any one indicato er (A1) Γable (A2) 3) (Β1) (Nonriverine)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic Ir ☐ Hydroges	ust (B12) overtebrate o Sulfide O	dor (C1)			Second  Wa Sec Drif Dra Dry	ary Indic ter Marks liment Do t Deposit inage Pa -Season	ators (2 d s (B1) (Ri eposits (B is (B3) (R atterns (B Water Ta	or more require iverine) 32) (Riverine) tiverine) 10) able (C2)	<u>d)</u>
Depth (inche lemarks:  /DROLOGY /etland Hydrol rimary Indicate ] Surface Wat ] High Water 1 ] Saturation (A ] Water Marks ] Sediment De	logy Indicators: rs (any one indicato er (A1) Table (A2) 3) (B1) (Nonriverine) eposits (B2) (Nonriv	/erine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic Ir ☐ Hydrogei ☐ Oxidized	ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_		Second  Wa Sec Drif Dra Dry Thin	ary Indic ter Marks liment Do t Deposit inage Pa -Season Muck St	eators (2 c s (B1) (Ri eposits (E is (B3) (R itterns (B Water Ta urface (C	or more require iverine) 32) (Riverine) tiverine) 10) able (C2)	<u>d)</u>
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Depth (inche Remarks:  YDROLOGY  Vetland Hydrol rimary Indicato Surface Wat High Water 1 Saturation (A Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Water-Staine eld Observatio urface Water Presenter Table Presenter	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Table (A2) 3) (B1) (Nonriverine) eposits (B2) (Nonriverine) rs (B3) (Nonriverine) Cracks (B6) isible on Aerial Image ad Leaves (B9) cons: resent? Yes sent? Yes	/erine) 5) gery (B7) □ No ⊠ □ No ⊠ I	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydrogei ☐ Oxidized ☐ Presencei ☐ Recent Ir ☐ Other (Ex	ust (B12) overtebrate on Sulfide O Rhizosphe e of Reduct on Reduct plain in Re	dor (C1) eres along ed Iron (C4 ion in Plow	4) ved Soils (	ots (C3)	Second  Wa Sec Drif Dra Dry Thin Cra Satt Sha	ary Indic ter Marks liment Do t Deposit inage Pa Season Muck So Wick So Wick So Muck So Wick S	ators (2 descriptions) atterns (Bay atterns (Bay atterns (Bay atterns (Cay atterns (Cay atterns (Cay atterns (Cay atterns (Day atterns	or more require iverine) 32) (Riverine) tiverine) 10) able (C2) 7) Aerial Imagery	
Depth (inche temarks:  **PROLOGY**  **Proceed of the process of th	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Table (A2) 3) (B1) (Nonriverine) eposits (B2) (Nonriverine) rs (B3) (Nonriverine) Cracks (B6) isible on Aerial Image ad Leaves (B9) cons: resent? Yes sent? Yes	/erine)  i)  gery (B7)  □ No ⊠  □ No ⊠  □ No ⊠	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydrogei ☐ Oxidized ☐ Presencei ☐ Recent Ir ☐ Other (Ex  Depth (inches): Depth (inches):	ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct plain in Re	dor (C1) eres along ed Iron (C4 ion in Plow marks)	yed Soils (	ots (C3) C6)	Second  Wa Sec Drif Dra Dry Thin Cra Satt Sha FAC	ary Indic ter Marks liment Do t Deposit inage Pa Season Muck So Wick So Wick So Muck So Wick S	ators (2 descriptions) atterns (Butterns (Butterns (Butterns (Carows (	or more require iverine) 32) (Riverine) 10) able (C2) 7) b) Aerial Imagery )	
Depth (inche Remarks:  PROLOGY  Potland Hydrol rimary Indicato  Surface Wate  High Water 1  Saturation (A  Water Marks  Sediment De  Drift Deposite  Surface Soil  Inundation Vi  Water-Staine  eld Observation  urface Water Presented Pres	logy Indicators: rs (any one indicators) (B1) (Nonriverine) reposits (B2) (Nonriverine) recks (B6) isible on Aerial Image ad Leaves (B9) resent? resent? Yes sent? Yes rt? Yes y fringe)	/erine)  i)  gery (B7)  □ No ⊠  □ No ⊠  □ No ⊠	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydrogei ☐ Oxidized ☐ Presencei ☐ Recent Ir ☐ Other (Ex  Depth (inches): Depth (inches):	ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct plain in Re	dor (C1) eres along ed Iron (C4 ion in Plow marks)	yed Soils (	ots (C3) C6)	Second  Wa Sec Drif Dra Dry Thin Cra Satt Sha FAC	ary Indic ter Marks liment Do t Deposit inage Pa Season Muck So Wick So Wick So Muck So Wick S	ators (2 descriptions) atterns (Butterns (Butterns (Butterns (Carows (	or more require iverine) 32) (Riverine) 10) able (C2) 7) b) Aerial Imagery )	
Depth (inche temarks:  PROLOGY  Petland Hydrol rimary Indicato  Surface Wate  High Water 1  Saturation (A  Water Marks  Sediment De  Drift Deposite  Surface Soil  Inundation Vi  Water-Staine  eld Observation  ater Table Presented and Presented Secondary  ater Table Presented Secondary	logy Indicators: rs (any one indicators) (B1) (Nonriverine) reposits (B2) (Nonriverine) recks (B6) isible on Aerial Image ad Leaves (B9) resent? resent? Yes sent? Yes rt? Yes y fringe)	/erine)  i)  gery (B7)  □ No ⊠  □ No ⊠  □ No ⊠	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydrogei ☐ Oxidized ☐ Presencei ☐ Recent Ir ☐ Other (Ex  Depth (inches): Depth (inches):	ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct plain in Re	dor (C1) eres along ed Iron (C4 ion in Plow marks)	yed Soils (	ots (C3) C6)	Second  Wa Sec Drif Dra Dry Thin Cra Satt Sha FAC	ary Indic ter Marks liment Do t Deposit inage Pa Season Muck So Wick So Wick So Muck So Wick S	ators (2 descriptions) atterns (Butterns (Butterns (Butterns (Carows (	or more require iverine) 32) (Riverine) 10) able (C2) 7) b) Aerial Imagery )	

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date	: 7/10/	12		
Applicant/Owner: State: OR Sampling Point: 11					
Investigator(s): MRS Section, Township, Range: Te	4N, R28E, 3	Sec. 9			
Landform (hillslope, terrace, etc.): Terrace Local relief (con-	cave, conve	ex, no	ne): N	lone Slope	(%):0-3%
Subregion (LRR):D Lat: 45.8421 Long: -119.3237	Datum	1:			
Soil Map Unit Name: Xerofluvents NWI classification:					
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ar? Y	es 🛚	No ∏ (If r	no, explain in Remarks.)
Are Vegetation □, Soil □, or Hydrology □ significantly dis					nstances" present? Yes 🔯 No 🗀
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally proble	matic?				any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			ie th	e Sampled	Area
Hydric Soil Present? Yes ☐ No 🗵				in a Wetlar	
Wetland Hydrology Present? Yes ☐ No ☒			******	113 G 71001GI	
Remarks:					
VEGETATION					
Tree Stratum (Plot size: )	Absolute % Cover			Indicator Status	Dominance Test worksheet:
1.					Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 2 (B)
4.					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 0 (A/B)
Total Cover: Sapling/Shrub Stratum (Plot size: 5')					Prevalence Index worksheet:
1.	T	<u> </u>	$\overline{}$		Total % Cover of: Multiply by:
2.					OBL species x 1 =
3.					FACW species x 2 =
4.					FAC species x 3 =
5.					FACU species x 4 =
	<u> </u>				UPL species x 5 =
Herb Stratum (Plot size: 5')	***************************************				Column Totals:(A)(B)
1.Phalaris arundinacea	5			FACW	Prevalence Index = B/A =
2. Triticum sp.	10	****		NOL	Hydrophytic Vegetation Indicators:
3.Onopordum acanthium	60	X	1	NOL	Dominance Test is >50%
4.Salsola kali	20	х		NOL	Prevalence Index is =3.01
5.					Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.					
8.		·			<sup>1</sup> indicators of hydric soil and wetland hydrology must be present.
Total Cover:	<u>95</u>				•
Woody Vine Stratum (Plot size: )					Hydrophytic
1.					Vegetation Present? Yes □ No ⊠
2. Total Cover:					
•					Remarks:
% Bare Ground in Herb Stratum 5 % Cover	r of Biotic C	rust			l

Depth	iption: (Describe to	the dept	h needed to docu	ment the indicat	or or confir	m the a	absence of indicators.)	
	Matrix		Redo	ox Features	<del></del>			
(inches)	Color (moist)		Color (moist)	% Type	e <sup>1</sup> Loc <sup>2</sup>	<u>Te</u>	exture Remarks	
0-16	2.5Y4/3	100				S		
					_			
					_			
						·······		
ype: C≔Con	ncentration, D=Deplet	ion, RM=l	Reduced Matrix.	<sup>2</sup> Location: PL=I	ore Lining,	RÇ≈Roc	ot Channel, M=Matrix.	
ydric Soil In	dicators: (Applicab	le to all L	RRs, unless othe	rwise noted.)	······································		dicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (	(A1)		☐ Sandy Redo	ox (S5)			1 cm Muck (A9) (LRR C)	
	ipedon (A2)		☐ Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)	
Black His	• •		Loamy Muc				Reduced Vertic (F18)	
	Sulfide (A4)		Loamy Gley				Red Parent Material (TF2)	
	Layers (A5) (LRR C)		Depleted M				Other (Explain in Remarks)	
	k (A9) ( <b>LRR D</b> ) Below Dark Surface ( <i>F</i>	1441	Redox Dark					
	Surface (A12)	X11)		ark Surface (F7)				
	cky Mineral (S1)		☐ Redox Depr ☐ Vernal Pools			3	Marker of the second of the se	
	yed Matrix (S4)		LI Vernai Poois	(F8)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.		
	yer (if present):					<u> </u>	welland hydrology must be present.	
Type:								
Depth (inche	ec).					Un sale	lute Call Conserved A. C. D. D. C.	
emarks:				······		пуш	lric Soil Present? Yes ☐ No 🗵	
DROLOGY	Υ							
tland Hydro	ology Indicators:	····					Cocondon Indicate (C	
	ors (any one indicato	r ie euffield	nné)				Secondary Indicators (2 or more require	
		i io sumon		· · · · · · · · · · · · · · · · · · ·			☐ Water Marks (B1) (Riverine)	
							☐ Sediment Deposits (B2) (Riverine)	
Surface Wa	Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)						Drift Deposits (B3) (Riverine)	
Surface Wa High Water	• •				Duning to Date (DAG)			
Surface Wa High Water Saturation (A	43)				☐ Drainage Patterns (B10)			
Surface Wa High Water Saturation (A Water Marks	A3) s (B1) (Nonriverine)		☐ Hydrogen 5	ertebrates (B13) Sulfide Odor (C1)			☐ Dry-Season Water Table (C2)	
Surface Wa High Water Saturation (A Water Marks Sediment De	A3) 5 (B1) (Nonriverine) eposits (B2) (Nonriv		☐ Hydrogen S	Sulfide Odor (C1) hizospheres alon		ts (C3)	☐ Dry-Season Water Table (C2)☐ Thin Muck Surface (C7)	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit	A3) s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine		☐ Hydrogen S☐ Oxidized R☐ Presence o	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C	24)		☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8)	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil	A3) s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine l Cracks (B6)	)	Hydrogen S Oxidized R Presence o Recent Iron	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C I Reduction in Pla	24)		☐ Dry-Season Water Table (C2)☐ Thin Muck Surface (C7)	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil Inundation V	A3) 5 (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) /isible on Aerial Imag	)	☐ Hydrogen S☐ Oxidized R☐ Presence o	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C I Reduction in Pla	24)		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery</li> <li>□ Shallow Aquitard (D3)</li> </ul>	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil Inundation V Water-Stain	A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) /isible on Aerial Imaged Leaves (B9)	)	Hydrogen S Oxidized R Presence o Recent Iron	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C I Reduction in Pla	24)		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery</li> </ul>	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil Inundation V Water-Stained	A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //sible on Aerial Imaged Leaves (B9) lions:	) ery (B7)	☐ Hydrogen S ☐ Oxidized RI ☐ Presence o ☐ Recent Iron ☐ Other (Expla	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C I Reduction in Pla	24)		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery</li> <li>□ Shallow Aquitard (D3)</li> </ul>	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil Inundation V Water-Staine Id Observati face Water P	A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //sible on Aerial imaged Leaves (B9) ions: Present? Yes [	) ery (B7) ☐ No 🏽	☐ Hydrogen S ☐ Oxidized RI ☐ Presence o ☐ Recent Iron ☐ Other (Expla	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C I Reduction in Pla	24)		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery</li> <li>□ Shallow Aquitard (D3)</li> </ul>	
Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil Inundation V Water-Staine Id Observati	A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) Cracks (B6) //sible on Aerial Imaged Leaves (B9) ions: Present? Yes [ esent? Yes [	) ery (B7) ☐ No 🏽	☐ Hydrogen S ☐ Oxidized RI ☐ Presence o ☐ Recent Iron ☐ Other (Expla	Sulfide Odor (C1) hizospheres alon f Reduced Iron (C I Reduction in Pla	24)		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery</li> <li>□ Shallow Aquitard (D3)</li> </ul>	

Project/Site: Hermiston LWI City/County:	Hermiston Sampling Date	: 7/10/	12						
Applicant/Owner: State: OR Sampling Point: 12									
	nship, Range: T4N, R28E,	Sec. 9	ı						
Landform (hillslope, terrace, etc.): Terrace I	* *			None Slone	e (%):0-3%				
	ong: -119.3237 Datum		,.						
Soil Map Unit Name: Xerofluvents NWI class	•	••							
Are climatic / hydrologic conditions on the si		~*2 V	· 157	71 No. 1777 / 16	ina ambala la Danada N				
Are Vegetation ☐, Soil ☐, or Hydrology ☐									
					mstances" present? Yes ⊠ No □				
Are Vegetation , Soil , or Hydrology					n any answers in Remarks.)				
SUMMARY OF FINDINGS - Attac	n site map snowing	sam	ıplın	ig point l	locations, transects, important features, o	etc.			
Hydrophytic Vegetation Present?	∕es ☐ No ⊠		le fi	he Sampled	d Δrea				
	∕es ☐ No 🏻	[		hin a Wetla					
	∕es ☐ No ⊠								
Remarks:									
VEGETATION									
Tree Stratum (Plot size: )	Absolute % Cover			t Indicator Status	Dominance Test worksheet:				
1.Eleagnus angustifolia	55	Ι×		NOL	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)				
2.					, ,				
3.					Total Number of Dominant Species Across All Strata: 3 (B)				
4.		<u> </u>			Percent of Dominant Species				
		I			That Are OBL, FACW, or FAC: 33 (A/B)				
Cooling/Chruh Circlum (Dist size, 51)	Total Cover: 55				Prevalence Index worksheet:				
Sapling/Shrub Stratum (Plot size: 5')		······							
2.					OBL species x 1 =				
3.					FACW species x 2 =	******			
4.					FAC species x 3 =				
5.					FACU species x 4 =				
		L.,			UPL species x 5 =				
	Total Cover:				Column Totals: (A)				
Herb Stratum (Plot size: 5')	PPTPTPTTALALAN								
1.Chenopodium album	5			FACU	Prevalence Index = B/A =				
2.Distichlis spicata	30	Х		FAC	Hydrophytic Vegetation Indicators:				
3.Onopordum acanthium	15	X		NOL	Dominance Test is >50%				
4.					Prevalence Index is =3.01				
5.		***************************************			Morphological Adaptations¹ (Provide supportir data in Remarks or on a separate sheet)	ıg			
6.					Problematic Hydrophytic Vegetation¹ (Explain	1)			
7.									
8.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.				
	Total Cover: 50				DO PROSONE.				
Woody Vine Stratum (Plot size: )					Hydrophytic				
1.					Vegetation				
2.					Present? Yes No 🗵				
	Total Cover:				Remarks:				
% Bare Ground in Herb Stratum50_	% Cover of Biotic	Crust							

	10 .			
an	nollr	ng Pr	oint:	12
				—

Profile Description: (Describe to the dep				r or confi	rm the a	bsence (	of indicators.)
Depth Matrix (inches) Color (moist) %	Color (moist)	dox Featur %	es Type <sup>1</sup>	Loc²	Tev	dure	Remarks
	COIOI (ISIOISI)			LOC			Kemarks
0-16 2.5Y4/3 100					S		
						·	
True					<b>4</b>	***************************************	
¹Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all	Reduced Matrix.	Locatio	on: PL=Po	re Lining,	RC=Roc	t Chann	el, M=Matrix. for Problematic Hydric Soils³:
☐ Histosol (A1)	☐ Sandy Red		ziou.)				uck (A9) (LRR C)
☐ Histic Epipedon (A2)	☐ Stripped N						ck (A10) (LRR B)
Black Histic (A3)	☐ Loamy Mu	, ,					d Vertic (F18)
☐ Hydrogen Sulfide (A4)	Loamy Gl						rent Material (TF2)
☐ Stratified Layers (A5) (LRR C)	☐ Depleted						Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )	Redox Da	rk Surface	(F6)				,
Depleted Below Dark Surface (A11)	Depleted i						
Thick Dark Surface (A12)	Redox De		(F8)		9.		
☐ Sandy Mucky Mineral (S1) ☐ Sandy Gleyed Matrix (S4)	☐ Vernal Poo	ols (F9)					of hydrophytic vegetation and
Restrictive Layer (if present):					· · · · · · · · · · · · · · · · · · ·	wettand i	hydrology must be present.
Type:							
Depth (inches):							
Remarks:					Hydi	ric Soil F	Present? Yes 🗌 No 🛛
YDROLOGY							
Vetland Hydrology Indicators:						Secono	dary Indicators (2 or more required)
rimary Indicators (any one Indicator is suffic	ient)						ter Marks (B1) (Riverine)
Surface Water (A1)	□ Salt Crus	f (R11)	***************************************				•
High Water Table (A2)	☐ Biotic Crus	. ,					diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Saturation (A3)	☐ Aquatic In	-	c (R13)				
] Water Marks (B1) (Nonriverine)	☐ Hydroger						inage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	☐ Oxìdized		, ,	Livina Pa	ote (C3)		-Season Water Table (C2)  Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	☐ Presence		_	_	uis (Ca)		, ,
Surface Soil Cracks (B6)	☐ Recent In		•	•	Ce)		yfish Burrows (C8)
Inundation Visible on Aerial Imagery (B7)				rea cons (	CO)		uration Visible on Aerial Imagery (C9
Water-Stained Leaves (B9)		ZIGIII III I KGI	iliaiks)				allow Aquitard (D3)
eld Observations:			<del></del>	···		11 LW	C-Neutral Test (D5)
	Depth (inches):						
	Depth (inches):			Ì			
							<u> </u>
ncludes capillary fringe)	Depth (inches):			1			Present? Yes 🗌 No 🛛
escribe Recorded Data (stream gauge, mor	itoring well, aerial	photos, pr	revious ins	pections)	, if availa	ble:	
				·			
emarks:							
	٠						

Decide (City) Harminton IVII City/County Harminton	Compline Date:	7/40/40	<u>,</u>	
Project/Site: Hermiston LWI City/County: Hermiston		1/10/12	<u> </u>	
Applicant/Owner: State: OR Sampling Poin				
Investigator(s): MRS Section, Township, Ran				
Landform (hillslope, terrace, etc.): Swale Local relief	(concave, convex	(, none):	: Concave Slop	pe (%):0-3%
Subregion (LRR):D Lat: 45.8405 Long: -119.3	3291 Datum	:		
Soil Map Unit Name: Xerofluvent NWI classification:				
Are climatic / hydrologic conditions on the site typical t	or this time of yea	ar? Yes	s⊠ No 🔲 (If r	no, explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significan	tly disturbed?	Are '	"Normal Circum	nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally		(If n	eeded, explain	any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site n	nap showing	samp	ling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No		1	s the Sampled	i Area
Hydric Soil Present? Yes ⊠ No	Ω		vithin a Wetlar	
Wetland Hydrology Present? Yes ⊠ No	· 🗆			
Remarks:				
VEGETATION				
	Absolute		nant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: )	% Cover	Specie	es? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
1.				That Are OBL, PACTY, OF AC. 2 (A)
2.				Total Number of Dominant Species Across All Strata: 3 (B)
3.				Species Across Air Strata. 9 (b)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: 63 (A/B)
	Cover:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')		r		Total % Cover of: Multiply by:
1.				OBL species x1=
2.				FACW speciesx 2 =
3.				FAC species x 3 =
4.				FACU species x 4 =
5.		<u> </u>		UPL speciesx 5 =
	Cover:			Column Totals:(A)
Herb Stratum (Plot size: 5')		<del>,</del>		
1.Phalaris arundinacea	35	X	FACW	Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:
2.Cirsium arvense	20	х	FACU	☐ Dominance Test is >50%
3.Rumex crispus	30	х	FAC	Prevalence Index is =3.01
4.Polygonum sp.	15			☐ Morphological Adaptations¹ (Provide supporting
5.				data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				¹Indicators of hydric soil and wetland hydrology must be present.
Total	Cover: 100			
Woody Vine Stratum (Plot size: )				Hydrophytic
1.				Vegetation
2.				Present? Yes No No
Total	Cover:			Remarks:
% Bare Ground in Herb Stratum 0 %	6 Cover of Biotic	Crust		

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	ŧ,	1	ł	

Sampling Point: 13

Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks  0-14 10YR2/2 100 SL  Type: C=Concentration, D=Depletion, RM=Reduced Matrix    Type: C=Concentration, D=De	Depth	Matrix		Redo	x Features	or confirm the a				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix		Color (moist)	%			Loc <sup>2</sup> Te	xture	Remarks		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix   PLocation: PL=Pore Lining, RC=Root Channel, M=Matrix   Plydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histoso (Ar)   Sandy Redox (S5)   1 cm Muck (A8) (LRR C)   Histo Epipedon (A2)   Stripped Matrix (S5)   2 cm Muck (A8) (LRR C)   Hydrogen Suilide (A4)   Loamy Mucky Mineral (F1)   Reduced Vertic (F18)   Hydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Loamy Gleyed Matrix (F2)   Reduced Vertic (F18)   Plydrogen Suilide (A4)   Reduced Vertic (F18)   Reduced V	0-14	10YR2/2	100			SL				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)		-					1			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)		-								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)			<u> </u>							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)		-								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)		-								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histocol (A1)	1				5		***************************************			
Histosal (A1)					<sup>2</sup> Location: PL=Pore	Lining, RC=Ro	ot Channel, M=M	atrix.		
Histic Epipedon (A2)			IDIE (C all L		•					
Black Histic (A3)	•	•								
Hydrogen Sulfide (A49)							•	, ,		
Stratified Layers (A5) (LRR C)						_				
□ cm Muck (A9) (LRR D)  □ pelpeted Below Dark Surface (A11) □ Depleted Dark Surface (F7) □ Thick Dark Surface (A12) □ pelpeted Dark Surface (F7) □ Thick Dark Surface (A12) □ Redox Depressions (F8) □ Sandy Mucky Mineral (S1) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present.    Sandy Gleyed Matrix (S4)   Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present.    Restrictive Layer (if present):			;)			*******				
Thick Dark Surface (A12)	1 cm Muck	(A9) (LRR D)				<del></del>	A	( ) ( ) ( )		
Sandy Mucky Mineral (S1)			(A11)							
Sandy Gleyed Matrix (S4)   wetland hydrology must be present.										
Restrictive Layer (if present): Type: Depth (inches):  Remarks: Re				☐ Vernal Pools	(F9)					
Type: Depth (inches):  Remarks: Due to recent changes in the wetlands hydrology the area now has wetland hydrology and the soils have not had a chance to form wetland haracteristics. The Bureau of Reclamation in 2013, intentionally put a hole in a irrigation syphon pipe allowing water to flow when irrigation water is resent.    VPROLOGY   Vetland Hydrology Indicators:							wetland hydrolog	y must be present.		
Depth (Inches):    Hydric Soil Present?   Yes   No	-	er (ii present).								
Remarks:  Due to recent changes in the wetlands hydrology the area now has wetland hydrology and the soils have not had a chance to form wetland haracteristics. The Bureau of Reclamation in 2013, intentionally put a hole in a irrigation syphon pipe allowing water to flow when irrigation water is resent.    VPROLOGY		. 1.				1		_		
Due to recent changes in the wetlands hydrology the area now has wetland hydrology and the soils have not had a chance to form wetland haracteristics. The Bureau of Reclamation in 2013, intentionally put a hole in a irrigation syphon pipe allowing water to flow when irrigation water is resent.    VOROLOGY		s);				Hyd	Iric Soil Present	? Yes⊠ No□		
Present   Pres										
PROLOGY   Vetland Hydrology Indicators:   Secondary Indicators (2 or more required)   Water Marks (B1) (Riverine)   Sediment Deposits (B2) (Riverine)   High Water Table (A2)   Biotic Crust (B11)   Drift Deposits (B3) (Riverine)   Drift Deposits (B3) (Riverine)   Hydrogen Sulfide Odor (C1)   Dry-Season Water Rable (C2)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living Roots (C3)   Thin Muck Surface (C7)   Drift Deposits (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Crayfish Burrows (C8)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soils (C6)   Saturation Visible on Aerial Imagery (C9)   Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Shallow Aquitard (D3)   FAC-Neutral Test (D5)   Saturation Present? Yes   No   Depth (inches): Surface Saturation Prese	Due to recent ch	nanges in the wetla	ands hydrolo	ogy the area now ha	s wetland hydrology	, and the soils h	ave not had a ch	ance to form wetland		
Secondary Indicators (2 or more required)	resent.	ine Duleau oi Nec	Jamanom	2013, intentionally	put a noie in a irriga	tion sypnon pipe	e allowing water t	o flow when irrigation water is		
Secondary Indicators (2 or more required)										
Secondary Indicators (2 or more required)										
Surface Water (A1)	/DROLOGY	, ,								
rimary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B12)  Aquatic Invertebrates (B13)  Water Marks (B1) (Riverine)  Prift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Recent Iron Reduction in Plowed Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Indicator Yes No Depth (inches): Surface Vater Table Present?  Yes No Depth (inches): Surface Coillary fringe)  Water Marks (B1) (Riverine)  Sediment Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  Trayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No Columbia	Vetland Hydrol	ogy Indicators:	<del></del>				Secondary Indi	cators (2 or more required)		
Surface Water (A1)	rimary Indicato	rs (any one indicat	tor is sufficie	ent)						
High Water Table (A2)					311)			' ''		
Saturation (A3)					<u>=</u>					
Water Marks (B1) (Nonriverine)								•		
Sediment Deposits (B2) (Nonriverine)	] Saturation (A	3)		_ ,						
Drift Deposits (B3) (Nonriverine)  ☐ Presence of Reduced Iron (C4)  ☐ Crayfish Burrows (C8)  Surface Soil Cracks (B6)  ☐ Recent Iron Reduction in Plowed Soils (C6)  ☐ Saturation Visible on Aerial Imagery (C9)  Inundation Visible on Aerial Imagery (B7)  ☐ Other (Explain in Remarks)  ☐ Shallow Aquitard (D3)  Water-Stained Leaves (B9)  ☐ FAC-Neutral Test (D5)  eld Observations:  urface Water Present?  Yes ☐ No ☐ Depth (inches): Surf fater Table Present?  Yes ☐ No ☐ Depth (inches):  aturation Present?  Yes ☐ No ☐ Depth (inches): Surf folloudes capillary fringe)	_ '	•	•)							
Surface Soil Cracks (B6)	] Water Marks	(B1) (Nonriverine	•	-	, ,	ing Roots (C3)				
Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  eld Observations:  urface Water Present? Yes ☐ No ☐ Depth (inches): Surf  ater Table Present? Yes ☐ No ☐ Depth (inches):  aturation Present? Yes ☐ No ☐ Depth (inches): Surf  aturation Present? Yes ☐ No ☐ Depth (inches): Surf  coludes capillary fringe)  Wetland Hydrology Present? Yes ☐ No ☐	] Water Marks ] Sediment De	(B1) (Nonriverine posits (B2) (Nonri	iverine)	Oxidized Rhi	izospheres along Liv	ing Roots (C3)	Thin Muck S	Surface (C7)		
Water-Stained Leaves (B9)	Water Marks Sediment De Drift Deposits	(B1) (Nonriverine eposits (B2) (Nonri s (B3) (Nonriverin	iverine)	☐ Oxidized Rhi☐ Presence of	izospheres along Liv Reduced Iron (C4)		☐ Thin Muck S ☐ Crayfish Bu	Surface (C7) rrows (C8)		
eld Observations:  urface Water Present? Yes  No Depth (inches): Surf  ater Table Present? Yes  No Depth (inches):  aturation Present? Yes  No Depth (inches): Surf  cludes capillary fringe)  Wetland Hydrology Present? Yes  No Depth (inches): No Depth (inches): No Depth (inches): Surf	] Water Marks ] Sediment De ] Drift Deposits ] Surface Soil	(B1) (Nonriverine eposits (B2) (Nonri s (B3) (Nonriverin Cracks (B6)	iverine) e)	Oxidized Rhi Presence of Recent Iron I	izospheres along Liv Reduced Iron (C4) Reduction in Plowed		☐ Thin Muck S ☐ Crayfish Bu ☐ Saturation \	Surface (C7) rrows (C8) Visible on Aerial Imagery (C9)		
ater Table Present?  Yes \sum No \sum Depth (inches):  Aturation Present?  Yes \sum No \sum Depth (inches): Surf  Solution State Table Present?  Yes \sum No \sum Depth (inches): Surf  Wetland Hydrology Present? Yes \sum No \sum Inches No \sum Inc	Water Marks Sediment De Drift Deposits Surface Soil ( Inundation Vi	(B1) (Nonriverine sposits (B2) (Nonri s (B3) (Nonriverin Cracks (B6) Isible on Aerial Ima	iverine) e)	Oxidized Rhi Presence of Recent Iron I	izospheres along Liv Reduced Iron (C4) Reduction in Plowed		☐ Thin Muck S☐ Crayfish Bu☐ Saturation \☐ Shallow Aq	Surface (C7) rrows (C8) /Isible on Aerial Imagery (C9) ultard (D3)		
ater Table Present?  Yes  No Depth (inches):  Aturation Present?  Yes  No Depth (inches): Surf  Coludes capillary fringe)  Wetland Hydrology Present? Yes No C	Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Water-Staine	(B1) (Nonriverine sposits (B2) (Nonri s (B3) (Nonriverin Cracks (B6) isible on Aerial Ima d Leaves (B9)	iverine) e)	Oxidized Rhi Presence of Recent Iron I	izospheres along Liv Reduced Iron (C4) Reduction in Plowed		☐ Thin Muck S☐ Crayfish Bu☐ Saturation \☐ Shallow Aq	Surface (C7) rrows (C8) /Isible on Aerial Imagery (C9) ultard (D3)		
aturation Present? Yes 🗵 No 🗌 Depth (inches): Surf  cludes capillary fringe)  Wetland Hydrology Present? Yes 🗵 No 🗌	Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Water-Staine	(B1) (Nonriverine posits (B2) (Nonris (B3) (Nonriverin Cracks (B6) disible on Aerial Imaded Leaves (B9)	iverine) ne) agery (B7)	☐ Oxidized Rhi☐ Presence of☐ Recent Iron I☐ Other (Explain	izospheres along Liv Reduced Iron (C4) Reduction in Plowed n in Remarks)		☐ Thin Muck S☐ Crayfish Bu☐ Saturation \☐ Shallow Aq	Surface (C7) rrows (C8) /Isible on Aerial Imagery (C9) ultard (D3)		
cludes capillary fringe)	Water Marks Sediment De Drift Deposits Surface Soil ( Inundation Vi Water-Staine eld Observation	(B1) (Nonriverine posits (B2) (Nonris (B3) (Nonriverin Cracks (B6) disible on Aerial Imad Leaves (B9) cons:	iverine) agery (B7) B No	☐ Oxidized Rhi ☐ Presence of ☐ Recent Iron I ☐ Other (Explain	izospheres along Liv Reduced Iron (C4) Reduction in Plowed n in Remarks)		☐ Thin Muck S☐ Crayfish Bu☐ Saturation \☐ Shallow Aq	Surface (C7) rrows (C8) /Isible on Aerial Imagery (C9) ultard (D3)		
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks Sediment De Drift Deposits Surface Soil ( Inundation Vi Water-Staine leid Observation urface Water Prosentation Presentation Presentatio	(B1) (Nonriverine aposits (B2) (Nonriverine aposits (B2) (Nonriverine as (B3) (Nonriverine as (B6) as (B4) as	iverine) agery (B7)  No  No  No  No  No  No	☐ Oxidized Rhi ☐ Presence of ☐ Recent Iron I ☐ Other (Explain  Depth (inches): Su  Depth (inches):	izospheres along Liv Reduced Iron (C4) Reduction in Plowed n in Remarks)	d Soils (C6)	☐ Thin Muck S ☐ Crayfish Bu ☐ Saturation \ ☐ Shallow Aqı ☐ FAC-Neutra	Surface (C7) rrows (C8) /isible on Aerial Imagery (C9) uitard (D3) ii Test (D5)		
	Water Marks Sediment De Drift Deposits Surface Soil ( Inundation Vi Water-Staine Grace Water Pr Sater Table Presented Table Presented Sediment Pre	(B1) (Nonriverine posits (B2) (Nonrius (B3) (Nonriverine Cracks (B6) disible on Aerial Imade Leaves (B9) dons: resent?  yes yes yfringe)	iverine) agery (B7) S No S No S No S	Oxidized Rhi Presence of Recent Iron I Other (Explain  Depth (inches): Su Depth (inches): Su	izospheres along Liv Reduced Iron (C4) Reduction in Plowed n in Remarks)	Soils (C6)  Wetland Hy	☐ Thin Muck S ☐ Crayfish Bu ☐ Saturation \ ☐ Shallow Aqı ☐ FAC-Neutra	Surface (C7) rrows (C8) /isible on Aerial Imagery (C9) ultard (D3) il Test (D5)		

Investigator(s): MRS Section, Too Landform (hillslope, terrace, etc.): Swale	ampling Point: 14 wnship, Range: T4t Local relief (concav Long: -119.3291 assification:	N, R28E, B /e, convex, Datum	:000 none)	): Coi		
Are climatic / nydrologic conditions on the Are Vegetation □, Soli □, or Hydrology [						nstances" present? Yes 🛛 No 🗍
Are Vegetation ☐, Soil ☐, or Hydrology [						any answers in Remarks.)
			,			
SUMMARY OF FINDINGS - Att	ach site map s	nowing	Sain	hiiii	g pont i	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes ⊠ No ☐ Yes ⊠ No ☐ Yes ⊠ No ☐		1		e Sampled in a Wetlar	
AFORTATION!						
VEGETATION  Tree Stratum (Plot size: )		Absolute % Cover			Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1.						That Are OBL, FACW, or FAC: 2 (A)
2.						Total Number of Dominant
3.						Species Across All Strata: 2 (B)
4.						Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:					Prevalence Index worksheet:
		Τ	[			Total % Cover of: Multiply by:
1.	<del>,, , , , , , , , , , , , , , , , , , ,</del>					OBL species x1 =
3,						FACW species x 2 =
4.						FAC species x 3 =
5.			<u> </u>			FACU species x 4 =
		1	ļ	L		UPL speciesx 5 =
Herb Stratum (Plot size: 5')	Total Cover:					Column Totals: (A)
1.Phalaris arundinacea		40	×		FACW	Prevalence Index = B/A =
2.Scirpus acuta		20	×		OBL	Hydrophytic Vegetation Indicators:
3.Typha latifolia		10			OBL	□ Dominance Test is >50%
4.Carex sp.		5			FAC	☐ Prevalence Index is =3.0¹
5.						Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.						Problematic Hydrophytic Vegetation¹ (Explain)
7.	***************************************		ļ			Trobonicas rijaroprijas vagasasii (zipiani)
8.						<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: ) 1. 2.	Total Cover:					Hydrophytic Vegetation Present?  Yes No Remarks: vegetation remnant from last year
% Bare Ground in Herb Stratum	25 litter %	Cover of	Biotic	Crus	ţ	

Depth _		s to the dop	th needed to do	ocument th	e indicato	or confi	rm the abser	nce of indicators.)	
-1	Matrix		R	ledox Featu	res			·	
(inches)	Color (moist)	%	Color (moist)	) %	Type <sup>1</sup>	Loc²	Texture	Remarks	
0-14	10YR4/2	90	10YR3/4	10	С	M	SL		
******	-								
							i		
				_					
		<b></b>					<u> </u>		
Type: C=Cond	centration, D=De	pletion, RM=	Reduced Matrix	<sup>2</sup> Locati	on: PL=Po	re Lining,	RC=Root Ch	annel, M=Matrix.	
Hydric Soil Inc	dicators: (Appli	cable to all	LRRs, unless o	therwise n	oted.)	······································		ors for Problematic Hydric Soils <sup>3</sup> :	
☐ Histosol (A	•		☐ Sandy Re	edox (S5)			☐ 1 cn	n Muck (A9) (LRR C)	
☐ Histic Epip			Stripped	Matrix (S6	)		☐ 2 cm	Muck (A10) (LRR B)	
☐ Black Histi			Loamy N					luced Vertic (F18)	
	Suffide (A4)	•	Loamy C	•	, ,			Parent Material (TF2)	
	ayers (A5) (LRR (A9) (LRR D)	<b>C</b> }	☐ Depleted				☐ Othe	er (Explaín in Remarks)	
	।(ਮੁਝ) ( <b>LKK ਹ</b> ) elow Dark Surfac	o (A11)	Redox D						
Thick Dark		e (ATT)	☐ Depleted ☐ Redox D						
	ky Mineral (S1)		☐ Vernal Po		(ГФ)		3 Indicators of hydrock the		
☐ Sandy Gley			L VOITIGET C	2013 (1 0)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.		
	er (if present):						Wede	and hydrology must be present.	
Type;									
Depth (inche	·s):								
Remarks:	-,.						Liudria C	oil Broconto Von Na Na III	
vernarks.		***************************************					Hydric S	oil Present? Yes 🛭 No 🗌	
vamaiks.		***************************************					Hydric S	oil Present? Yes ⊠ No □	
volitatiks.							Hydric S	oil Present? Yes ⊠ No □	
vemarks.							Hydric S	oil Present? Yes ⊠ No □	
	,						Hydric S	oil Present? Yes ⊠ No □	
YDROLOGY									
YDROLOGY Vetland Hydro	logy Indicators:		sient)				Sec	condary Indicators (2 or more required)	
YDROLOGY Vetland Hydro Irimary Indicato	logy Indicators:			set /R11\			Sec	condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )	
YDROLOGY Vetland Hydro Primary Indicato ☑ Surface Wat	logy Indicators: rs (any one indic er (A1)		☐ Sait Cru				Sec	condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )	
YDROLOGY Vetland Hydrol Primary Indicato ☑ Surface Wat ☑ High Water 1	logy Indicators: urs (any one indic er (A1) Table (A2)		☐ Salt Cru	rust (B12)	ne (B13)		Sec	condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> )	
YDROLOGY Vetland Hydrol Trimary Indicato Surface Wat High Water	logy Indicators: rs (any one indic er (A1) Table (A2) 3)	ator is suffic	☐ Salt Cru☐ Biotic C☐ Aquatic I	rust (B12) Invertebrate			Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)	
YDROLOGY Vetland Hydro Inimary Indicato Surface Wat High Water Saturation (A Water Marks	logy Indicators: urs (any one indic er (A1) Table (A2) 3) (B1) (Nonriverir	ator is suffic	☐ Sait Cru ☐ Biotic C ☐ Aquatic I ☐ Hydroge	rust (B12) invertebrate en Sulfide C	dor (C1)	iving Po	Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	
YDROLOGY Vetland Hydro Indicato Surface Wate High Water Saturation (A Water Marks Sediment De	logy Indicators: urs (any one indic er (A1) Table (A2) 3) (B1) (Nonriverir	ator is suffic ne) iriverine)	☐ Salt Cru☐ Biotic C☐ Aquatic I☐ Hydroge☐ Oxidized	rust (B12) invertebrate en Sulfide C d Rhizosphe	dor (C1) eres along		Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)	
YDROLOGY Vetland Hydroi Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De	logy Indicators: urs (any one indicators) urs (A1) Table (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering)	ator is suffic ne) iriverine)	☐ Salt Cru ☐ Biotic C ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presend	rust (B12) invertebrate en Sulfide C d Rhizospho e of Reduc	odor (C1) eres along i ed Iron (C4	)	Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)	
YDROLOGY Vetland Hydroi Trimary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil	logy Indicators: urs (any one indicators) urs (A1) Table (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering s (B3) (Nonrivering Cracks (B6)	ator is suffic ne) uriverine) ine)	☐ Salt Cru ☐ Biotic C ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presend ☐ Recent I	rust (B12) invertebrate en Sulfide C d Rhizosphe e of Reduc Iron Reduct	odor (C1) eres along ed Iron (C4 ion in Plow	)	Sec 	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	
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Project/Site: Hermiston LWI City/County	/: Hermiston Sam	pling Date:	7/10/	12					
Applicant/Owner: State: OR Sampling Point: 15									
Investigator(s): MRS Section, Tox	wnship, Range: T4	N, R28E, 8	Sec. B	3000					
Landform (hillslope, terrace, etc.): Terrace	Local relief (cond	ave, conve	ex, no	ne): N	lone Slope	∋ (%):			
Subregion (LRR):D Lat: 45.8405	Long: -119.3291	Datum	):						
Soil Map Unit Name: Xerofluvents NWI cl.	assification:								
Are climatic / hydrologic conditions on the	site typical for this	time of ye	ar? Y	es 🛚	No ☐ (If	no, explain in Remarks.)			
Are Vegetation □, Soil □, or Hydrology [	☐ significantly dist	urbed?	Ar	e "Noi	rmal Circur	mstances" present? Yes ⊠ No □			
Are Vegetation [], Soil [], or Hydrology [	naturally proble	matic?	(If	need	ed, explair	n any answers in Remarks.)			
SUMMARY OF FINDINGS - Atta	ach site map s	howing	sam	plin	g point	locations, transects, important features, etc.			
Hydrophytic Vegetation Present?	Yes ☐ No 🏻			is th	e Sample	d Area			
Hydric Soil Present?	Yes ☐ No 🗵				in a Wetla				
Wetland Hydrology Present?  Remarks:	Yes ☐ No 🛛								
Tromans.									
VEGETATION									
Tree Stratum (Plot size: )		Absolute % Cover			Indicator Status	Dominance Test worksheet:  Number of Dominant Species			
1.						That Are OBL, FACW, or FAC: 0 (A)			
2.						Total Number of Dominant			
3.						Species Across All Strata: 2 (B)			
4.						Percent of Dominant Species			
	Total Cover:					That Are OBL, FACW, or FAC: 0 (A/B)			
Sapling/Shrub Stratum (Plot size: 5')	Total Gover.					Prevalence Index worksheet:			
1.						Total % Cover of: Multiply by:			
2.						OBL species x 1 = FACW species x 2 =			
3.						FAC species x 3 =			
4.						FACU species x 4 =			
5.						UPL species x 5 =			
Herb Stratum (Plot size: 5')	Total Cover:	***************************************				Column Totals: (A)			
1.Sisymbrium altissimum		35	Х		FACU	Prevalence Index = B/A =			
2.Cirsium arvense		20	Х		FACU	Hydrophytic Vegetation Indicators:			
3.						Dominance Test is >50%			
4.						Prevalence Index is =3.01			
5.						Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)			
6.						Problematic Hydrophytic Vegetation¹ (Explain)			
7,									
8.						<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
	Total Cover:	55							
Woody Vine Stratum (Plot size: )		_				Hydrophytic			
1.						Vegetation			
2.	Tatal Carre					Present? Yes No 🖂			
	Total Cover:			_		Remarks:			
% Bare Ground in Herb Stratum 45	5 litter %	Cover of E	Biotic (	Crust					

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
0-14	10YR3/2	100					SL		
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ype: C=Con vdric Soil Inc	centration, D≔Depl dicators: (Applica	etion, RM≔l able to all I	Reduced Matrix.	Location erwise not	n: PL=Po	re Lining,			el, M=Matrix. or Problematic Hydric Soils³:
] Histosol (/		to an E	Sandy Red		icu.,				ck (A9) (LRR C)
	pedon (A2)		☐ Stripped N						ck (A10) (LRR B)
Black Hist			☐ Loamy Mu	cky Mineral	l (F1)				Vertic (F18)
	Sulfide (A4)		Loamy Gle		(F2)				ent Material (TF2)
	.ayers (A5) ( <b>LRR C</b> : (A9) ( <b>LRR D</b> )	;)	☐ Depleted N		(EC)			Other (E:	xplain in Remarks)
	elow Dark Surface	(A11)	☐ Redox Dar						
	Surface (A12)	Ç,	☐ Redox Der						
	ky Mineral (S1)		☐ Vernal Poo		,		3Inc	licators of	f hydrophytic vegetation and
0 0	red Matrix (S4)							watland h	ydrology must be present.
							······································	Wolland II	, 3) p
strictive Lay	yer (if present):	***							, , , , , , , , , , , , , , , , , , ,
estrictive Lay Type:	yer (if present):								
estrictive Lay Type: Depth (inche	yer (if present):								Present? Yes □ No ⊠
estrictive Lay Type: Depth (inche emarks:	yer (if present): es):								
estrictive Lay Type: Depth (Inche emarks:	yer (if present): es):							ric Soil P	Present? Yes ☐ No ⊠
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estrictive Lay Type: Depth (inches marks:  DROLOG) etland Hydro mary Indicate Surface War	yer (if present):  es):  f  logy Indicators:  ors (any one indicator (A1)	tor is suffici	☐ Salt Crust					Second	Present? Yes No  ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
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Type: Depth (incherents: Depth (incherents: DROLOG) etland Hydro imary Indicate Surface War High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Ind Observati Inface Water Peter Table Presecutes capillar	yer (if present):  pes):  plogy Indicators: pres (any one indicators (any one indicators (any one indicators));  (B1) (Nonriverine (B1) (Nonriverine (B3) (N	e) iverine) agery (B7)  No 🖾 No 🖾	☐ Salt Crust ☐ Blotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized If ☐ Presence ☐ Recent Inc ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates Sulfide Odi Rhizosphere of Reduced on Reductio	lor (C1) es along d Iron (C4 on in Plow narks)	ed Soils (	Hydrotts (C3)	Second Second Sed Drift Drai Cray Satu Shai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct.) tilow Aquitard (D3) c-Neutral Test (D5)

Project/Site: Hermiston LWI	ncave, conve Datum is time of ye sturbed?	ex, no n: ar? Y Ar	ne): Non ′es ⊠ No re "Norma	o	
SUMMARY OF FINDINGS - Attach site map	showing	sam	npling	point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes □ No □  Yes □ No □  Yes □ No □  No □				Samplec a Wetlar	
VEGETATION					
Tree Stratum (Plot size: )	Absolute <u>% Cover</u>		ninant in cies? S		Dominance Test worksheet:  Number of Dominant Species That Are ORL FACIAL as FACIAL (A)
1. 2. 3.					That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across All Strata: 1 (B)
4.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Total Cove	r:				Prevalence Index worksheet:
1.		T			Total % Cover of: Multiply by:
2.					OBL species x 1 =
3.					FACW species x 2 =
4.		<del> </del>			FAC species x 3 =
5.		<b></b>			FACU species x 4 =
	1	L			UPL species x 5 =  Column Totals: (A)
Total Cove	r:				(B)
1.Alopecurus pratensis	60	х	F.A	ACW	Prevalence index = B/A =
2.Lactuca sp.	5				Hydrophytic Vegetation Indicators:
3.Cirsium arvense	15		FA	4CU	_ ☑ Dominance Test is >50%
4.					Prevalence Index is =3.01
5.					Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation¹ (Explain)
7.					- Tobalitation ( - Apicility
8.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cove  Woody Vine Stratum (Plot size: )  1.  2.  Total Cove					Hydrophytic Vegetation Present?  Yes No Remarks:
% Bare Ground in Herb Stratum 20 litter	% Cover of	Biotic	Crust		

Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Features %	Type <sup>1</sup>	Loc²	Tex	ture	Remarks
0-14	10YR2/2	100					SiCL		
						***************************************			
				***************************************				······································	
								·····	
					<u></u>				
'vne: G≂Cor	ncentration, D=Dep	letion RM≍F	Reduced Matrix	<sup>2</sup> Location:	PI =Pore	Linina	RC=Roc	ot Channe	al M=Matrix
	ndicators: (Applic			erwise noted	<u>، بی – ، ۱۵۱۵</u> ا.)	cirining,			or Problematic Hydric Soils <sup>3</sup> :
] Histosol (			☐ Sandy Red		,				ck (A9) (LRR C)
] Histic Epi	ipedon (A2)		Stripped M						ck (A10) (LRR B)
Black His	stic (A3)		☐ Loamy Mu	icky Mineral (F	<sup>-</sup> 1)				d Vertic (F18)
	n Sulfide (A4)		Loamy Gle	•	2)			Red Pare	ent Material (TF2)
	Layers (A5) (LRR (	3)	Depleted I	, ,				Other (E:	xplain in Remarks)
	k (A9) (LRR D)	(4.4.4)	Redox Dai						
	Below Dark Surface Surface (A12)	(A11)	Depleted [	,					
	cky Mineral (S1)		☐ Redox Dep ☐ Vernal Poo	, ,	)		31		E las relaciones de la companya de estado de la companya de la companya de estado de la companya del companya de la companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya del la companya de la companya del co
	yed Matrix (S4)		□ Veinai F00	is (F8)					f hydrophytic vegetation and lydrology must be present,
								wonding n	iyarology mast be present,
estrictive La	yer (if present):		***************************************					,,,,	
e <b>strictive La</b> Type:	yer (if present):								
Type: Depth (inch								ric Soil P	'resent? Yes ☐ No ⊠
Type: Depth (inch emarks:	nes):							ric Soil P	Present? Yes ☐ No ⊠
Type: Depth (inch emarks: DROLOG	nes):								
Type: Depth (inchemarks:  DROLOG etland Hydro	Y ology Indicators:	tor is sufficient	not)					Second	ary Indicators (2 or more required)
Type: Depth (inchemarks: DROLOGetland Hydroimary Indicat	Y ology indicators: tors (any one indica	itor is sufficie						Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (inchemarks:  DROLOG etland Hydremary Indicate Surface Wa	Y ology Indicators: tors (any one indicators)	ator is sufficie	Salt Crust					Second  Wat	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
Type: Depth (inchemarks:  DROLOG etland Hydre mary Indicate Surface Wa	Y ology Indicators: tors (any one indicator (A1) Table (A2)	itor is sufficie	☐ Salt Crusi	st (B12)				Second  Wat  Sed	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Type: Depth (inch emarks:  DROLOG etland Hydre imary Indicat Surface Wa High Water Saturation (	Y ology Indicators: tors (any one indicator (A1) Table (A2) A3)		☐ Salt Crust☐ Biotic Cru☐ Aquatic In	st (B12) vertebrates (B				Second  Wat  Sed  Drift  Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Type: Depth (inch emarks:  DROLOG etland Hydre imary Indicat Surface Wa High Water Saturation ( Water Marks	Y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering	e)	☐ Salt Crust☐ Biotic Cru☐ Aquatic In☐ Hydrogen	st (B12) vertebrates (B Sulfide Odor	(C1)		Hydi	Second  Wat  Sed  Drift  Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Type: Depth (inchemarks:  DROLOG etland Hydro imary Indicat Surface Wa High Water Saturation ( Water Marks	Y ology Indicators: tors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering	e) riverine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized	st (B12) vertebrates (B Sulfide Odor Rhizospheres	(C1) along Li	ving Roo	Hydi	Second  Wat Sed Drift Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Type: Depth (inchemarks: DROLOG etland Hydro imary Indicat Surface Water High Water Saturation (inchemarks) Water Marks Sediment D Drift Deposi	y ology Indicators: tors (any one indicator (A1) r Table (A2) A3) s (B1) (Nonrivering Opensits (B2) (Nonrivering (B3) (N	e) riverine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir	(C1) along Li ron (C4)		Hydi	Second Wat Sed Drift Drai Dry- Thin	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
Type: Depth (inch emarks:  DROLOG etland Hydre imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi	Y ology Indicators: tors (any one indicators) ater (A1) r Table (A2) A3) s (B1) (Nonriverina Deposits (B2) (Nonriverina Deposits (B3) (Nonriverina Il Cracks (B6)	e) riverine) ne)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Litron (C4) in Plowed		Hydi	Second  Wat Sed Drift Drai Dry- Thin Cray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C5)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation (	Y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering (Deposits (B2) (Nonrivering (B3) (	e) riverine) ne)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Litron (C4) in Plowed		Hydi	Second  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) Illow Aquitard (D3)
Type: Depth (inch emarks:  DROLOG etland Hydre imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Depos Surface Soi Inundation ( Water-Stain	Y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonriverin	e) riverine) ne)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Litron (C4) in Plowed		Hydi	Second  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C5)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain Id Observat	y ology Indicators: tors (any one indicators (any one indicators) ater (A1) r Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Nonrivering il Cracks (B6) Visible on Aerial Immed Leaves (B9) tions:	e) riverine) ne) agery (B7)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized Int ☐ Presence ☐ Recent Int ☐ Other (Exp	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Litron (C4) in Plowed		Hydi	Second  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) Illow Aquitard (D3)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain eld Observat	Y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Nonrivering District (B3) (N	e) riverine) ne) agery (B7) s □ No ⊠	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Irc ☐ Other (Exp	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Litron (C4) in Plowed		Hydi	Second  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) Illow Aquitard (D3)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain eld Observat rface Water I ater Table Pre-	Y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrius (B3) (Nonrivering (B	e) riverine) ne) agery (B7) s □ No ☒ s □ No ☒	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized Int ☐ Presence ☐ Recent Int ☐ Other (Exp	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Litron (C4) in Plowed	Soils (	Hydrots (C3)	Second  Sed  Drift  Drai  Thin  Cray  Satu  Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) -Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) Illow Aquitard (D3)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat   Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain eld Observat rface Water I ater Table Pro turation Pres cludes capilla	Y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrius (B3) (Nonrivering (B	e) riverine) ne) agery (B7) s □ No ☒ s □ No ☒ s □ No ☒	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Li ron (C4) in Plowed	d Soils (	Hyding Hyding Hydrogen (C3)	Second Sed Sed Drift Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat   Surface Water   Saturation (inch   Water Marks   Sediment Did Drift Deposition (inches Soil Inundation (inches Water Stain   Sediment Did Observater (inches Water Stain   Sediment Did Observater (inches Soil Inundation (inches Soil	y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Nonrivering il Cracks (B6) Visible on Aerial Immed Leaves (B9) tions: Present? ye esent? ye ery fringe)	e) riverine) ne) agery (B7) s □ No ☒ s □ No ☒ s □ No ☒	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Li ron (C4) in Plowed	d Soils (	Hyding Hyding Hydrogen (C3)	Second Sed Sed Drift Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inch emarks:  DROLOG etland Hydro imary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain eld Observat rface Water I ater Table Pre turation Pres cludes capilla scribe Recon	y ology Indicators: tors (any one indicater (A1) r Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Nonrivering il Cracks (B6) Visible on Aerial Immed Leaves (B9) tions: Present? ye esent? ye ery fringe)	e) riverine) ne) agery (B7) s  No  s No  s No  s	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches): Depth (inches): oring well, aerial	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced Ir on Reduction i olain in Remar	(C1) along Liron (C4) in Plowed	d Soils (	Hyding Hyding Hydrogen (C3)	Second Sed Sed Drift Drai Cray Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston Sa Applicant/Owner: State: OR Sampling Point: 1 Investigator(s): MRS Section, Township, Range: Landform (hillslope, terrace, etc.): Flat Local relief (conca Subregion (LRR):D Lat: 45.8368 Long: -119.3082 Soil Map Unit Name: Adkins urban land complex NWI cla Are climatic / hydrologic conditions on the site typical for the	7 T4N, R28E, ve, convex, r Datun	Sec. 10 none): No	one Slope(%	
Are Vegetation $\square$ , Soil $\square$ , or Hydrology $\square$ significantly d	isturbed?	Are "i	Normal Circur	mstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally prob				n any answers in Remarks.) locations, transects, important features, etc.
	, snowing	Sampi	ing point i	ocations, transects, important reatures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes ☐ No ☒  Yes ☐ No ☒  Yes ☐ No ☒  Yes ☐ No ☒		İ	the Sampled	
VEGETATION				
Tree Stratum (Plot size: )	Absolute % Cover		ant Indicator s? Status	Dominance Test worksheet:  Number of Dominant Species
1. 2. 3.				That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across All Strata: 2 (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
Total Cove	er:			Prevalence Index worksheet:
1.Salix alba	30	х	FAC	Total % Cover of: Multiply by:
2. Rubus discolor	75	х	FACU	OBL species x1 =
3.				FACW species x 2 = FAC species x 3 =
4.				FAC species x 3 = FACU species x 4 =
5.				UPL species x 5 =
Total Cove	er: <u>105</u>			Column Totals: (A)
1.			Т	Prevalence Index = B/A =
2.				Hydrophytic Vegetation Indicators:
3.				Dominance Test is >50%
4.				Prevalence Index is =3.01
5.	<del></del>			☐ Morphological Adaptations¹ (Provide supporting
6.				data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
7.				Froblematic Hydrophytic Vegetation (Explain)
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cove	er: _			
Woody Vine Stratum (Plot size: )  1.				Hydrophytic Vegetation Present?  Yes □ No ☑
2.	\#'			
Total Cove		_		Remarks:
% Bare Ground in Herb Stratum0 % Co	ver of Biotic	Crust		

inches) !	Matrix Color (moist)	%	Color (moist)	dox Features	Type' Lo	<u> </u>	exture	Remarks
0-10	10YR3/1	100				S		
				2, .,				
	ntration, D=Deple ators: (Applica							el, M=Matrix. for Problematic Hydric Soits <sup>3</sup> :
Histosol (A1		Die to all Li	Sandy Red		,	_	_	<del>-</del>
Histic Epipe	•		Stripped N	` '				ick (A9) ( <b>LRR C</b> ) ck (A10) ( <b>LRR B</b> )
Black Histic				icky Mineral (F	1)			d Vertic (F18)
Hydrogen Si	` '			eyed Matrix (F2				ent Material (TF2)
	ers (A5) (LRR C	)	Depleted N		- /			Explain in Remarks)
1 cm Muck (A			Redox Dai	rk Surface (F6)	)		•	,
	ow Dark Surface	(A11)		Dark Surface (F	7)			
Thick Dark Su				pressions (F8)		a		
Sandy Mucky Sandy Gleyed	` '		☐ Vernal Poo	ils (F9)		31		f hydrophytic vegetation and
strictive Layer							wetland r	nydrology must be present.
-	(ii present).							
Type: Rock	, ,					Н	ødric Soil F	Present? Yes □ No.⊠
Type: Rock Depth (inches)	, ,					Ну	ydric Soil F	Present? Yes ☐ No ⊠
Type: Rock Depth (inches) marks:	, ,					Ну	rdric Soil F	Present? Yes ☐ No ⊠
Type: Rock Depth (inches) marks:  DROLOGY	: 10"					Hy		
Type: Rock Depth (inches) marks:  DROLOGY itland Hydrolo	gy Indicators:	or is sufficie	nf)			Hy	Second	lary Indicators (2 or more required)
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo nary Indicators	gy Indicators:	or is sufficie		+(F214)		Hy	Second	lary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo nary Indicators Surface Water	gy Indicators: (any one indicat	or is sufficie	☐ Sait Crus			H <sub>3</sub>	Second Wa	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo nary Indicators Surface Water High Water Ta	gy Indicators: (any one indicators) (A1) (ble (A2)	or is sufficie	☐ Saft Crust	ıst (B12)	121	H <sub>3</sub>	Second  Wa Sec	dary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> )
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo nary Indicators Surface Water High Water Ta Saturation (A3)	gy Indicators: (any one indicators) (A1) (ble (A2)		☐ Salt Crust☐ Blotic Cru☐ Aquatic In	ist (B12) vertebrates (B	•	H <sub>3</sub>	Second  Wa Sec	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo mary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E	gy Indicators: (any one indicators) (A1) (ble (A2) (Nonriverine	<b>&gt;</b>	☐ Saft Crusi ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	ist (B12) vertebrates (B¹ Sulfide Odor (	(C1)		Second  Wa Sec Drif Dra Dra	dary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) it Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2)
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo mary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Dep	gy Indicators: (any one indicators) (A1) (ble (A2) (Nonriverine) osits (B2) (Nonri	) verine)	Saft Crusi Biotic Cru Aquatic In Hydrogen Oxidized	ist (B12) vertebrates (B¹ i Sulfide Odor ( Rhizospheres :	(C1) along Living		Second  Wa  Sec  Drif  Dra  Dry  Thin	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Type: Rock Depth (inches) marks:  DROLOGY offland Hydrolo mary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Depo	gy Indicators: (any one indicators) (A1) (ble (A2) (B1) (Nonriverine osits (B2) (Nonri	) verine)	Saft Crust Biotic Cru Aquatic In Hydrogen Oxidized	ist (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Ira	(C1) along Living on (C4)	Roots (C:	Second  Wa Sec Drif Dra Dry Ory Thin	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) I Muck Surface (C7) yfish Burrows (C8)
Type: Rock Depth (inches) marks:  DROLOGY Itland Hydrolo mary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Depo	gy Indicators: (any one indicators) (A1) (B1) (Nonriverine osits (B2) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B3) (Nonriverine (B6))	) verine) e)	Saft Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres a of Reduced Iron Reduction in	(C1) along Living on (C4) n Plowed So	Roots (C:	Second  Wa Sec Drif Dra Dry S) Thin Cra	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo mary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Dep Drift Deposits ( Surface Soil C Inundation Visi	gy Indicators: (any one indicators) (A1) (ble (A2) (Nonriverine) osits (B2) (Nonriverine) (B3) (Nonriverine) (B3) (Nonriverine)	) verine) e)	Saft Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	ist (B12) vertebrates (B Sulfide Odor ( Rhizospheres a of Reduced Ira	(C1) along Living on (C4) n Plowed So	Roots (C:	Second  Wa Sec Drif Dra Dry S) Cra Sati	Bary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo nary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Dep Drift Deposits ( Surface Soil C Inundation Visi Water-Stained	gy Indicators: (any one Indicators) (A1) (ble (A2) (B1) (Nonriverine osits (B2) (Nonriverine (B3) (Nonriverine racks (B6) (ble on Aerial Ima	) verine) e)	Saft Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres a of Reduced Iron Reduction in	(C1) along Living on (C4) n Plowed So	Roots (C:	Second  Wa Sec Drif Dra Dry S) Cra Sati	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C5
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolo mary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Dep Drift Deposits ( Surface Soll C Inundation Visi Water-Stained d Observatior	gy Indicators: (any one indicators) (A1) (B1) (Nonriverine osits (B2) (Nonri (B3) (Nonriverine racks (B6) (B1) (B2) (B2) (B3) (B3) (Nonriverine racks (B6)	) verine) e) agery (B7)	☐ Saft Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized Int ☐ Presence ☐ Recent Int ☐ Other (Exp	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres a of Reduced Ire on Reduction in	(C1) along Living on (C4) n Plowed So	Roots (C:	Second  Wa Sec Drif Dra Dry S) Cra Sati	Bary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Rock Depth (inches) marks:  DROLOGY Itland Hydrolomary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Deported Deposits ( Surface Soil Collaboration Visity Water-Stained Indoorpress	gy Indicators: (any one indicators: (A1) (B1) (Nonriverine osits (B2) (Nonri (B3) (Nonriverine racks (B6) ible on Aerial Ima Leaves (B9) ns: sent? Yes	) verine) e) agery (B7) □ No ⊠	☐ Saft Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized Int ☐ Presence ☐ Recent Int ☐ Other (Exp	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres a of Reduced Ire on Reduction in	(C1) along Living on (C4) n Plowed So	Roots (C:	Second  Wa Sec Drif Dra Dry S) Cra Sati	Bary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Rock Depth (inches) marks:  DROLOGY tland Hydrolomary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Dep Drift Deposits ( Surface Soil Collandation Visity Water-Stained d Observation face Water Preservation Present	gy Indicators: (any one indicators) (A1) (ble (A2) (B3) (Nonriverine osits (B2) (Nonriverine racks (B6) (ble on Aerial Imaleaves (B9) (ns: (B3) (Nonriverine racks (B6) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa)	) verine) e) agery (B7)  No 🖾	☐ Saft Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized Int ☐ Presence ☐ Recent Int ☐ Other (Exp	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres a of Reduced Ire on Reduction in	(C1) along Living on (C4) n Plowed So (s)	Roots (Ci	Second  Wa Sec Drif Dra Dry Stor	Bary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Rock Depth (inches) marks:  DROLOGY Intland Hydrolomary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Deportif Deposits ( Surface Soil C Inundation Visi Water-Stained Ind Observation face Water Presented Table Present Indes capillary	gy Indicators: (any one indicators: (A1) (B1) (Nonriverine osits (B2) (Nonri (B3) (Nonriverine racks (B6) (B6) (B6) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	) verine) e) agery (B7)  No   Saft Crust Biotic Cru Aquatic Int Hydrogen Oxidized Presence Recent Inc Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres and Reduced Income Reduction in Remark	(C1) along Living on (C4) n Plowed So ss)	Roots (C:	Second  Va Sec Drif Dra Dry S) Thin Cra Sati	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)	
Type: Rock Depth (inches) marks:  DROLOGY Intland Hydrolomary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Deportif Deposits ( Surface Soil C Inundation Visi Water-Stained Ind Observation face Water Presented Table Present Indes capillary	gy Indicators: (any one indicators) (A1) (ble (A2) (B3) (Nonriverine osits (B2) (Nonriverine racks (B6) (ble on Aerial Imaleaves (B9) (ns: (B3) (Nonriverine racks (B6) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa)	) verine) e) agery (B7)  No   Saft Crust Biotic Cru Aquatic Int Hydrogen Oxidized Presence Recent Inc Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres and Reduced Income Reduction in Remark	(C1) along Living on (C4) n Plowed So ss)	Roots (C:	Second  Va Sec Drif Dra Dry S) Thin Cra Sati	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)	
Type: Rock Depth (inches) marks:  DROLOGY Itland Hydrolomary Indicators Surface Water High Water Ta Saturation (A3) Water Marks (E Sediment Deportif Deposits ( Surface Soil Collandation Visity Water-Stained Ind Observation face Water Presentation Present ludes capillary	gy Indicators: (any one indicators: (A1) (B1) (Nonriverine osits (B2) (Nonri (B3) (Nonriverine racks (B6) (B6) (B6) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	) verine) e) agery (B7)  No   Saft Crust Biotic Cru Aquatic Int Hydrogen Oxidized Presence Recent Inc Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates (B' Sulfide Odor ( Rhizospheres and Reduced Income Reduction in Remark	(C1) along Living on (C4) n Plowed So ss)	Roots (C:	Second  Va Sec Drif Dra Dry S) Thin Cra Sati	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)	

Project/Site: Hermiston LWI City/County: Hermiston S	ampling Date:	7/10/12		
Applicant/Owner: State: OR Sampling Point:	18			
Investigator(s): MRS Section, Township, Range	T4N, R 28E,	Sec. 10		
Landform (hillslope, terrace, etc.): Flat Local relief (conc	ave, convex, n	one): Non	e Slope (%)	):
Subregion (LRR):D Lat: 45.8368 Long: -119.308	2 Datum	<b>:</b> :		
Soil Map Unit Name: Adkins urban Land Complex NWI of	lassification:			
Are climatic / hydrologic conditions on the site typical for		ar? Yes Ď	XINo∏ (If:	no. explain in Remarks.)
Are Vegetation □, Soil □, or Hydrology □ significantly	•			nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally pro				any answers in Remarks.)
		,	•	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No □	1		ut - C1	10
Hydric Soil Present? Yes ☐ No ☑		1	the Sampled thin a Wetla	
Wetland Hydrology Present? Yes ☐ No ☑	3	Wit	iiiii a TTGCC	ing: 169 Ho M
Remarks:				
VEGETATION				
Tree Stratum (Plot size: )	Absolute % Cover		nt Indicator ? Status	Dominance Test worksheet:  Number of Dominant Species
1.			T	That Are OBL, FACW, or FAC: 1 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 1 (B)
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B)
Total Co Sapling/Shrub Stratum (Plot size: 5')	ver:			Prevalence Index worksheet:
1.Salix sp.	90	x	TFAC	Total % Cover of: Multiply by:
2.				OBL species x1 =
3.				FACW speciesx2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
		I	J	UPL species x 5 =  Column Totals: (A)
Total Co <sup>o</sup> Herb Stratum (Plot size: 5')	ver: <u>90</u>			(B)
1.		-		Prevalence Index = B/A =
2.				Hydrophytic Vegetation Indicators:
3.				☐ Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Co	ver:			
Woody Vine Stratum (Plot size: )	-			Hydrophytic
1.				Vegetation
2.				Present? Yes No No
Total Co				Remarks:
% Bare Ground in Herb Stratum 10 %	Cover of Biotic	c Crust		

Depth (inches)	•	to the de	pth needed to doo			or comm	m the absenc	e of malcators.)
	Matrix Color (moist)	%	Color (moist)	dox Featur %	Type <sup>1</sup>	Loc²	Texture	Remarks
0-10	2.5Y3/2	100		1			S	
10-18	10YR3/2	98	10YR3/4	2	С	M	S	
10-10	1011372	96	10183/4	-	C		<u> </u>	
							,	
			1=Reduced Matrix.	<sup>2</sup> Locatio	on: PL≔Po	re Lining,	RC=Root Char	nnel, M≃Matrix.
		cable to al	I LRRs, unless oth		oted.)			s for Problematic Hydric Solls <sup>3</sup> :
Histosol	· ·		☐ Sandy Red	, ,				Muck (A9) (LRR C)
•	pipedon (A2)		☐ Stripped Mu					Muck (A10) (LRR B)
	n Sulfide (A4)		Loamy Gl					ced Vertic (F18) Parent Material (TF2)
	Layers (A5) (LRR	C)	☐ Depleted	•	, ,			(Explain in Remarks)
1 cm Mud	ck (A9) (LRR D)		☐ Redox Da					(Language of the Control of the Cont
	Below Dark Surface	e (A11)	☐ Depleted					
	k Surface (A12)		☐ Redox De		(F8)		•	
	ecky Mineral (S1) eyed Matrix (S4)		☐ Vernal Poo	ols (F9)				s of hydrophytic vegetation and
	ayer (if present):				······································	·	wetian	d hydrology must be present.
Type:	ayer (ii present).							
Depth (incl	noe).					÷	Libraria Car	
emarks:	103).						Hydric Soi	il Present? Yes ☐ No 🛚
omarks.								
DROLOG	SY .			·····				
	GY rology Indicators:						Seco	indary Indicators (2 or more required)
etland Hydr			icient)					ondary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
tland Hydr mary Indica	ology Indicators: tors (any one indic		icient)	t (B11)			D V	Vater Marks (B1) ( <b>Riverine</b> )
etland Hydr mary Indica Surface W	ology Indicators: tors (any one indic						D v	Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
etland Hydr mary Indica Surface W High Wate	rology Indicators: tors (any one indic ater (A1) r Table (A2)		☐ Salt Crus	ıst (B12)	s (B13)		U v	Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> )
etland Hydr mary Indica Surface W High Wate Saturation I Water Mark	rology Indicators: tors (any one indicater (A1) r Table (A2) (A3) ss (B1) (Nonriverin	ator is suff	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	ıst (B12)				Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Prift Deposits (B3) ( <b>Riverine</b> ) Prainage Patterns (B10)
etland Hydr imary Indica Surface W High Wate Saturation i Water Mark	rology Indicators: tors (any one indicater (A1) r Table (A2) (A3)	ator is suff	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	ist (B12) vertebrate i Sulfide O		Living Ro	V s c c	Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> )
etland Hydr mary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos	rology Indicators: tors (any one indicator (A1) r Table (A2) (A3) ts (B1) (Nonriverinate) Deposits (B2) (Nonsite (B3)	ator is suff ne) priverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduce	dor (C1) eres along ed Iron (C4	)	V   S   S   S   S   S   S   S   S   S	Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Oralnage Patterns (B10) Ory-Season Water Table (C2)
etland Hydr imary Indica Surface W High Wate Saturation i Water Mark Sediment I Drift Depos Surface Sc	rology Indicators: tors (any one indicater (A1) r Table (A2) (A3) ss (B1) (Nonriverinate) Deposits (B2) (Nonsits (B3) (Nonriverinate) oif Cracks (B6)	ator is suff ne) iriverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduce	dor (C1) eres along	)	V   V   S   S   S   S   S   S   S   S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralinage Patterns (B10) Ory-Season Water Table (C2) Orin Muck Surface (C7) Orayfish Burrows (C8)
etland Hydr mary Indica Surface W High Wate Saturation I Water Mark Sediment I Drift Depos Surface Sc Inundation	rology Indicators: tors (any one indicator (A1) r Table (A2) (A3) ss (B1) (Nonriverinate) Deposits (B2) (Nonsits (B3) (Nonriverinate) Jerosks (B6) Visible on Aerial In	ator is suff ne) iriverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduction	dor (C1) eres along ed Iron (C4 ion in Plow	)	V   S   S   S   S   S   S   S   S   S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralinage Patterns (B10) Ory-Season Water Table (C2) Orin Muck Surface (C7) Orayfish Burrows (C8)
etland Hydr mary Indica Surface W High Wate Saturation of Water Mark Sediment I Drift Depos Surface So Inundation Water-Stai	rology Indicators:  tors (any one indicators (A1)  r Table (A2)  (A3)  s (B1) (Nonriverinal (B2) (Nonsits (B3) (Nonriverinal (B	ator is suff ne) iriverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduction	dor (C1) eres along ed Iron (C4 ion in Plow	)	V   S   S   S   S   S   S   S   S   S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralinage Patterns (B10) Ory-Season Water Table (C2) Onin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain	rology Indicators: tors (any one indicators (A1) r Table (A2) (A3) ss (B1) (Nonrivering (B2) (Nonsits (B3) (Nonrivering	ator is suff ne) iriverine) ine) nagery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduction	dor (C1) eres along ed Iron (C4 ion in Plow	)	V   S   S   S   S   S   S   S   S   S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralinage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Challow Aquitard (D3)
etland Hydr imary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stair Id Observa	rology Indicators: tors (any one indicators (any one indicator (A1)) r Table (A2) (A3) ss (B1) (Nonrivering (B2) (Nonsits (B3) (Nonrivering (B3) (Nonriverin	ator is suff ne) iriverine) ine) nagery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduction	dor (C1) eres along ed Iron (C4 ion in Plow	)	V   S   S   S   S   S   S   S   S   S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralinage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Challow Aquitard (D3)
etland Hydr mary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Id Observa	rology Indicators:  tors (any one indicator (A1)  r Table (A2)  (A3)  ts (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonri	ator is suff ne) nriverine) ine) nagery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduction	dor (C1) eres along ed Iron (C4 ion in Plow	)	V   S   S   S   S   S   S   S   S   S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralnage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Challow Aquitard (D3)
etland Hydr imary Indica Surface W High Wate Saturation I Water Mark Sediment I Drift Depos Surface So Inundation Water-Stai	rology Indicators:  tors (any one indicators (any one indicator (A1))  r Table (A2)  (A3)  ts (B1) (Nonrivering (B2) (Nonrivering (B3) (No	ator is suffine)  priverine)  ine)  magery (BT	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrate i Sulfide O Rhizosphe i of Reduction	dor (C1) eres along ed Iron (C4 ion in Plow	) ed Soils (	V   S   S   C   C	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralinage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Challow Aquitard (D3)

Project/Site: Hermiston LWI City/County: Hermiston San Applicant/Owner: State: OR Sampling Point: 19 investigator(s): MRS Section, Township, Range: T Landform (hillslope, terrace, etc.): Ditch Local relief (conca Subregion (LRR):D Lat: 45.8389 Long: -119.2754 Soil Map Unit Name: Adkins Fine Sandy Loam NWI classif Are climatic / hydrologic conditions on the site typical for this	4N, R28E, S ve, convex, Datum cation:	Sec. 1 <sup>.</sup> none)	1 : Con		
Are Vegetation _, Soil _, or Hydrology _ significantly dis					nstances" present? Yes 🖾 No 🛄
Are Vegetation □, Soil □, or Hydrology □ naturally proble					any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes □ No ☑  Yes □ No ☑  Wetland Hydrology Present?  Yes □ No ☑  Remarks:				e Sampled In a Wetlar	
Remarks:					
VEGETATION					
Tree Stratum (Plot size: )	Absolute % Cover			Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.					That Are OBL, FACW, or FAC: 0 (A)
2.			_		Total Number of Dominant Species Across All Strata: 1 (B)
3.					
		J			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
Total Cover	* *************************************				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')		1	<del></del>		Total % Cover of: Multiply by:
1.					OBL species x1 =
3.					FACW species x 2 =
4.					FAC species x 3 =
5.					FACU species x 4 =
		<u> </u>			UPL species x 5 =
Total Cover Herb Stratum (Plot size: 5')	•				Column Totals: (A)
1.Cynodon dactylon	95	x	T	FACU.	Prevalence Index = B/A =
2.Hordeum jubatum	5	<del> </del>		FAC	Hydrophytic Vegetation Indicators:
3.Cirsium vulgare	t			FACU	Dominance Test is >50%
4.					Prevalence Index is =3.01
5.					Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation¹ (Explain)
7.					robicinado riyarepayar vegetatas (explain)
8.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover Woody Vine Stratum (Plot size: )  1. 2. Total Cover To					Hydrophytic Vegetation Present?  Yes No Remarks:
	er of Blotic	Crust			I Nomano.

Profile Desc	ription: (Describe	e to the dep	oth needed to do	cument ti	he indicat	or or conf	rm the a	bsence	of indicators.)
Depth	Matrix			dox Feat	ures	4 . 3			<u>.</u>
(inches)	Color (moist)	%	Color (moist)	%	Туре	1 Loc²	<u>le</u>	xture	Remarks
0-12	2.5Y2/1	100					S		
12-21	2.5Y3/2	90	2.5Y3/1	10	С	M	S		
				-					
			,					· · · · · · · · · · · · · · · · · · ·	
							1		
					-		<del> </del>		
							.1		
Type: C=Co	ncentration, D=De	pletion, RM	=Reduced Matrix.	<sup>2</sup> Loca	tion: PL=I	ore Linina	. RC=Ro	ot Chann	el. M=Matrix.
	ndicators: (Applic								for Problematic Hydric Soils <sup>3</sup> ;
Histosol	, ,		☐ Sandy Red	dox (S5)				1 cm Mi	ıck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped f						ck (A10) (LRR B)
Black Hi			Loamy M		, ,				d Vertic (F18)
	n Sulfide (A4)	<b>C</b> \	Loamy Gl						rent Material (TF2)
	Layers (A5) (LRR ok (A9) (LRR D)	C)	☐ Depleted ☐ Redox Da	•	,		L	Other (E	Explain in Remarks)
	Below Dark Surfac	e (A11)	☐ Depleted						
	k Surface (A12)	( )	☐ Redox De						
	icky Mineral (S1)		☐ Vernal Poo	ols (F9)			³In	dicators d	of hydrophytic vegetation and
	eyed Matrix (S4)							wetland	nydrology must be present.
	ayer (if present):								
Туре:									
Depth (incl	nes):						Нус	lric Soil I	Present? Yes ☐ No ⊠
Depth (incl	nes):				······································		Нус	lric Soil I	Present? Yes ☐ No ⊠
Depth (incl	nes):		***************************************		**************************************		Нус	Iric Soil I	Present? Yes ☐ No ⊠
Depth (incl	nes):						Нус	Iric Soil I	Present? Yes □ No ⊠
Depth (incl	nes):						Нус	Iríc Soil I	Present? Yes □ No ⊠
Depth (inclemarks:							Нус	Iríc Soil I	Present? Yes □ No ⊠
Depth (inclemarks:							Hyc		
Depth (inchemarks:  'DROLOG'  'etland Hydr	SY rology Indicators:		cient)				Hyc	Second	dary Indicators (2 or more required)
Depth (inchemarks:  'DROLOG'  'etland Hydr	FOO Indicators: tors (any one indic			st (B11)			Нус	Second	dary Indicators (2 or more required ter Marks (B1) ( <b>Riverine</b> )
Depth (inclements:  'DROLOG'  'etland Hydrimary Indica    Surface W	ology Indicators: tors (any one indicater (A1)		☐ Salt Crus	-			Нус	Second Wa	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Depth (inclinent control of the cont	ology Indicators: tors (any one indicators) ater (A1) r Table (A2)		☐ Salt Crus	ust (B12)	tes (B13)		Hyc	Second Was Second	dary Indicators (2 or more required ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> )
Depth (inchemarks:  'DROLOG' 'etland Hydromary Indicae'   Surface William High Wate	ology Indicators: tors (any one indicator (A1) r Table (A2) (A3)	oator is suffi	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic Ir	ust (B12) ivertebrat	, ,		Hyc	Second Was Second Second Dri	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) dinage Patterns (B10)
Depth (inchemarks:  'DROLOG'  /etland Hydromary Indication      Surface W   High Wate     Saturation     Water Mark	ology Indicators: tors (any one indicators) ater (A1) r Table (A2)	cator is suffi ne)	☐ Salt Crus	ust (B12) ivertebrat i Sulfide	Odor (C1)			Second  Was  Second  Dri  Dri  Dri  Dry	dary Indicators (2 or more required ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) dinage Patterns (B10) di-Season Water Table (C2)
Depth (inchemarks:  "DROLOG"  Tetland Hydromary Indication (inchemark)  High Wate Mark (inchemark)  Water Mark (inchemark)	rology Indicators: tors (any one indic later (A1) r Table (A2) (A3) (s (B1) (Nonriverir	cator is suffi ne) nriverine)	☐ Salt Crus ☐ Bíotic Cru ☐ Aquatic Ir ☐ Hydroger	ust (B12) ivertebrat i Sulfide Rhizosph	Odor (C1) neres alon	g Living Ro		Second  Second  Dri  Dri  Dry  Thir	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) dinage Patterns (B10) -Season Water Table (C2)
Depth (inche lemarks:  DROLOG  Setland Hydromary Indicate  Surface W High Wate Saturation Water Mark Sediment I Drift Depos	rology Indicators: tors (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonriverin	cator is suffi ne) nriverine)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) evertebrat e Sulfide Rhizosph e of Redu	Odor (C1) neres alon ced Iron (I	g Living Ro	pots (C3)	Second  Second  Dri  Dri  Dri  Thir	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) dinage Patterns (B10) -Season Water Table (C2) di Muck Surface (C7) diffsh Burrows (C8)
Depth (inche lemarks:  DROLOG  Vetland Hydromary Indicate  Surface W  High Wate  Saturation of Water Mark  Water Mark  Depth Deposed	ology Indicators: tors (any one indicators (any one indicator) ater (A1) r Table (A2) (A3) ts (B1) (Nonrivering Deposits (B2) (Nonrivering)	cator is suffi ne) nriverine)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) overtebrat o Sulfide Rhizosph of Reduction on Reduction	Odor (C1) neres alon ced Iron (I ction in Plo	g Living Ro C4)	pots (C3)	Second  Second  Dri  Dri  Dri  Dri  Thir	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2)
Depth (inchemarks:  DROLOG  Vetland Hydre  Surface W  High Wate  Saturation  Water Mark  Sediment I  Drift Depose  Surface So  Inundation	ology Indicators: tors (any one indicators (any one indicater (A1) or Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	cator is suffi ne) nriverine)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) overtebrat o Sulfide Rhizosph of Reduction on Reduction	Odor (C1) neres alon ced Iron (I ction in Plo	g Living Ro C4)	pots (C3)	Second  Was  See  Dri  Dri  Dry  Thir	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) dinage Patterns (B10) r-Season Water Table (C2) di Muck Surface (C7) disprish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inche lemarks:  DROLOG  Vetland Hydrerimary Indication of the lemark of the lem	rology Indicators: tors (any one indicator (A1) r Table (A2) (A3) ts (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonriveri	cator is suffi ne) nriverine)	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) overtebrat o Sulfide Rhizosph of Reduction on Reduction	Odor (C1) neres alon ced Iron (I ction in Plo	g Living Ro C4)	pots (C3)	Second  Was  See  Dri  Dri  Dry  Thir	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) (Sish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche lemarks:  PROLOG Fetland Hydromary Indicate Saturation of Saturation of Sediment It of Deposed Surface Society Su	rology Indicators: tors (any one indicators (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6) Visible on Aerial Inned Leaves (B9) tions:	ne) nriverine) rine) magery (B7	☐ Salt Crus ☐ Biotic Cri ☐ Aquatic Ir ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) nvertebrate Sulfide Rhizosph of Redu on Redu plain in R	Odor (C1) neres alon ced Iron (I ction in Plo	g Living Ro C4)	pots (C3)	Second  Was  See  Dri  Dri  Dry  Thir	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) (Sish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche Remarks:  YDROLOG  Yetland Hydren Indicate Water Mark  Saturation Water Mark  Sediment In Drift Deposed Inundation Water-Stain Water Wate	ology Indicators: tors (any one indicators (any one indicator (A1) or Table (A2) (A3) (S (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6) Visible on Aerial Indicators (B9) tions: Present?	ne) nriverine) nagery (B7	☐ Salt Crus ☐ Bíotic Cru ☐ Aquatic ir ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent ir ☐ Other (Ex	ust (B12) nvertebrate Sulfide Rhizosph of Redu on Redu plain in R	Odor (C1) neres alon ced Iron (I ction in Plo	g Living Ro C4)	pots (C3)	Second  Was  See  Dri  Dri  Dry  Thir	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) (Sish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche Remarks:  YDROLOG  Vetland Hydre  Surface W  High Wate  Saturation  Water Mark  Sediment I  Drift Depose  Surface So  Inundation	ology Indicators: tors (any one indicators (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6) Visible on Aerial Indicators (B9) ottons: Present? oresent?  your color of the c	ne) nriverine) magery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic Ir ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent Ir ☐ Other (Ex	ust (B12) nvertebrat n Sulfide Rhizosph e of Redu on Reduc plain in R	Odor (C1) neres alon ced Iron (I ction in Plo	g Living Ro	oots (C3)	Second  Wa See  Dri  Dra  Dry  Sat  Sha	dary Indicators (2 or more required ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) uyfish Burrows (C8) uration Visible on Aerial Imagery (Mallow Aquitard (D3)

US Army Corps of Engineers

Remarks:

Project/Site: Hermiston LWI City/County: Hermiston San	npling Date:	7/10/1	2	
Applicant/Owner: State: OR Sampling Point: 20				
Investigator(s): MRS Section, Township, Range: T	4N, R28E, S	Sec 11		
Landform (hillslope, terrace, etc.): Ditch Local relief (conca	ve, convex,	none):	Concave S	Slope (%):3-6
Subregion (LRR):D Lat: 45.8389 Long: -119.2754	Datum	:		
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classif	ication:		•	
Are climatic / hydrologic conditions on the site typical for thi	s time of yea	ar? Ye	s ⊠ No □	(If no, explain in Remarks.)
Are Vegetation □, Soil □, or Hydrology □ significantly dis				ircumstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally proble				plain any answers in Remarks.)
		,	·	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No □	***************************************		is the Samı	opled Area
Hydric Soil Present? Yes ☐ No ☒			within a We	
Wetland Hydrology Present? Yes ☐ No ☒			***************************************	cuana. 100 🗔 100 🔼
Remarks:				
VEGETATION				
Tree Stratum (Plot size: )	Absolute <u>% Cover</u>		nant Indical es? Statu	
1.				That Are OBL, FACW, or FAC: 1 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: <u>1</u> (B)
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover Sapling/Shrub Stratum (Plot size: 5')	:			Prevalence Index worksheet:
1.				Total % Cover of; Multiply by;
2.				OBL species x 1 =
3.				FACW speciesx2 =
4.				FAC species x 3 =
5.	-			FACU species x 4 =
Total Cover				Column Totals: (A) (B)
Herb Stratum (Plot size: 5')	.,			
1.Poa pratensis	85	Х	FAC	Prevalence Index = B/A =
2.Typha latifolia	5		OBL.	Hydrophytic Vegetation Indicators:  ☑ Dominance Test is >50%
3.				Prevalence Index is =3.01
4.				Morphological Adaptations¹ (Provide supporting
5.				data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.				[]
8.				¹Indicators of hydric soil and wetland hydrology must be present.
Total Cover	: <u>90</u>			
Woody Vine Stratum (Plot size: )				Hydrophytic
1.				Vegetation Present?  Yes ⊠ No □
Z. Tatal Cava				
Total Cover				Remarks: Typha in ditch
% Bare Ground in Herb Stratum10 % Co	ver of Biotic	Crust		

Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	- Tex	ture	Remarks
0-14	10YR3/2	100		1			GSL		
U-14	101 K3/2	100					GGL		
							I		
	centration, D≍Dep					re Lining,			el, M=Matrix.
	dicators: (Applic	able to all L	.RRs, unless oth	erwise no	oted.)		Ind	icators f	or Problematic Hydric Soils <sup>3</sup> :
] Histosol (			☐ Sandy Red						ck (A9) (LRR C)
	pedon (A2)		Stripped N						ck (A10) (LRR B)
] Black Hist ] Hydrogen	tic (A3) i Sulfide (A4)		Loamy Mu						Vertic (F18)
	i Sullide (A4) ∟ayers (A5) ( <b>LRR</b> (	C)	☐ Loamy Gid☐ Depleted I	•	, ,				ent Material (TF2)
	k (A9) (LRR D)	<b>C</b> )	☐ Depleted I				لسا	Other (E:	xplain in Remarks)
	selow Dark Surface	∍ (A11)	Depleted I						
	Surface (A12)	,	☐ Redox De		, ,				
] Sandy Mud	ky Mineral (S1)		☐ Vernal Poo		. /		³lnd	licators of	f hydrophytic vegetation and
	yed Matrix (S4)								ydrology must be present.
estrictive La	yer (if present):								
Type:	yer (if present):								
							Hyda	ric Soil P	'resent? Yes ☐ No 🏻
Type: Depth (inche emarks:	es):						Hydi	ric Soil P	Present? Yes ☐ No ☒
Type: Depth (inche emarks:  (DROLOG)	es): Y						Hydi		
Type: Depth (inche emarks:  DROLOG` etland Hydro	es):  Y  plogy Indicators:						Hydi		resent? Yes ☐ No ☒ ary Indicators (2 or more required)
Type: Depth (incher emarks: DROLOG`	es): Y	ator is suffici	ent)				Hydi	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (incher emarks: DROLOG` etland Hydro imary Indicate Surface Wa	es):  Y  plogy Indicators: ors (any one indicator (A1)	ator is suffici	ent) Salt Crus	t (B11)			Hydi	Second	ary Indicators (2 or more required)
Type: Depth (inche emarks:  DROLOG` etland Hydro imary Indicate Surface Wa High Water	Y  plogy Indicators: ors (any one indicator (A1) Table (A2)	ator is suffici	☐ Salt Crus	ıst (B12)			Hydi	Second □ Wat	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (inche emarks:  (DROLOG) etland Hydro imary Indicate Surface Wa High Water   Saturation (/	Y Plogy Indicators: ors (any one indicater (A1) Table (A2)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	st (B12) vertebrate			Hydi	Second  Wat  Sed  Drift	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
Type: Depth (inche emarks:  'DROLOG' etland Hydro imary Indicate Surface Wa High Water Saturation (/	Y  Plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin	e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	st (B12) vertebrate Sulfide O	dor (C1)			Second  Wat  Sed  Drift  Drai	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Type: Depth (incher emarks:  DROLOGY etland Hydro etland	Y Diogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Non	e) riverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized	st (B12) vertebrate Sulfide O Rhizosphe	dor (C1) eres along			Second  Wat  Sed  Drift  Drai	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Type: Depth (inche emarks:  DROLOG` etland Hydro imary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi	y plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (	e) riverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence	ist (B12) vertebrate: Sulfide O Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	)	ots (C3)	Second  Wat Sed Drift Drai	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
Type: Depth (inche emarks:  DROLOG` etland Hydro imary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi	y plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering teposits (B2) (Nonrivering teposits (B3) (Nonrivering teposits (B3) (Nonrivering teposits (B6))	e) riverine) ne)	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	)	ots (C3)	Second  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aeriai Imagery (C
Type: Depth (inche emarks:  DROLOG` etland Hydro imary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi Surface Soil Inundation \	y  Plogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonrivering reposits (B2) (Nonrivering ts (B3) (Nonrivering ts (B3) (Nonrivering) I Cracks (B6) Visible on Aerial In	e) riverine) ne)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Cray  Satu	ary indicators (2 or more required) ter Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (incher emarks:  DROLOGY etland Hydro imary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi Surface Soil Inundation \ Water-Stain	Y Plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering teposits (B2) (Nonrivering terms) ts (B3) (Nonrivering to (B3) (Nonrivering to (B4)) I Cracks (B6) Visible on Aerial Indicated Leaves (B9)	e) riverine) ne)	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Cray  Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aeriai Imagery (C
Type: Depth (inche emarks:  "DROLOG" retland Hydro rimary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi Surface Soil Inundation \ Water-Stain	y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nontivering (B3) (Nonrivering	e) riverine) ne) nagery (B7)	Salt Crus  Biotic Cru  Aquatic In  Hydrogen  Oxidized  Presence  Recent Iro  Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Cray  Satu	ary indicators (2 or more required) ter Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inche emarks:  (DROLOG)  (etland Hydro imary Indicate ) Surface Wa   High Water   Saturation (A   Water Marks   Sediment D   Drift Deposi   Surface Soil   Inundation \ Water-Stain   Ind Observation   Water Water F	y plogy Indicators: ors (any one indicators (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nongenerator (B2) (Nonrivering (B3) (Nonriverin	e) riverine) ne) nagery (B7) es □ No ⊠	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Cray  Satu	ary indicators (2 or more required) ter Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inche emarks:  //DROLOG` /etland Hydro /imary Indicate // Surface Wa // High Water // Saturation (// // Water Marks // Sediment D // Drift Deposi // Surface Soil // Inundation \ // Water-Stain // Water Water Fater Table Preserrance	y  plogy Indicators: ors (any one indicators: ater (A1) Table (A2) A3) s (B1) (Nonrivering reposits (B2) (Nonrivering reposits (B3) (Nonrivering reposits (B6) Visible on Aerial Indicators ed Leaves (B9) ions: Present? Yesent?	e) riverine) ne) nagery (B7) es □ No ⊠	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	) ed Soils (	ots (C3)	Second  Wat  Sed  Drift  Drai  Thin  Cray  Satu  FAC	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Ilow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inche emarks:  DROLOG` Toron Indicate Surface Water Saturation (A Water Marks Sediment D Drift Deposi Surface Soil Inundation \ Water-Stain aid Observati Irface Water Feater Table Prest	y  plogy Indicators: ors (any one indicators: ater (A1) Table (A2) A3) s (B1) (Nonrivering teposits (B2) (Nonrivering teposits (B3) (Nonrivering teposits (B6)) Visible on Aerial Inged Leaves (B9) lons: Present? esent? yeent? yeent?	e) riverine) ne) nagery (B7) es □ No ⊠	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow	) ed Soils (	ots (C3)	Second  Wat  Sed  Drift  Drai  Thin  Cray  Satu  FAC	ary indicators (2 or more required) ter Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inche emarks:  "DROLOG"  Tetland Hydrorimary Indicate Surface Water   Saturation (A) Water Marks Sediment D Drift Deposition (A) Water-Stain Face Water Fater Table Presectudes capilla	y  plogy Indicators: ors (any one indicators: ater (A1) Table (A2) A3) s (B1) (Nonrivering teposits (B2) (Nonrivering teposits (B3) (Nonrivering teposits (B6)) Visible on Aerial Inged Leaves (B9) lons: Present? esent? yeent? yeent?	e) riverine) ne) nagery (B7) es  No  Ses  No  Ses	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow marks)	) ed Soils (	ots (C3)	Second  Sed  Drift  Drai  Thin  Cray  Satu  FAC	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Ilow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inche emarks:  "DROLOG"  Tetland Hydrorimary Indicate Surface Wa High Water Saturation (A) Water Marks Sediment D Drift Deposi Inundation \ Water-Stain Hobservati Urface Water Fater Table Presectudes capilla	y  Pology Indicators: ors (any one indicators: ater (A1) Table (A2) A3) s (B1) (Nonriverin eposits (B2) (Non ts (B3) (Nonriveri I Cracks (B6) //sible on Aerial in ed Leaves (B9) ions: Present? esent? ye ent? ye ent? ye ent? ye ent? ye ent?	e) riverine) ne) nagery (B7) es  No  Ses  No  Ses	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 on in Plow marks)	) ed Soils (	ots (C3)	Second  Sed  Drift  Drai  Thin  Cray  Satu  FAC	ary indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Ilow Aquitard (D3) C-Neutral Test (D5)

Investigator(s): MRS Section, To Landform (hillslope, terrace, etc.): Terrace Subregion (LRR):D Lat: 45.8207 Soil Map Unit Name: Quincy Loamy Fine Are climatic / hydrologic conditions on the Are Vegetation, Soil, or Hydrology	ampling Point: 21  wnship, Range: T4N, R28E, 3  Local relief (concave, convections: -119.3305 Datum  Sand NWI classification: site typical for this time of year in the site of year in the convections of the convection of t	Sec. 21B ex, none): n: ar? Yes [ Are "N	⊠ No	o, explain in Remarks.) stances" present? Yes ⊠ No □ any answers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes No C Yes No No X Yes No X	ls	the Sampled	
VEGETATION  Tree Stratum (Plot size: )  1. 2.	Absolute % Cover		nt Indicator ? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
3. 4.  See line (Cheule Stratum (Diet size: 5'))	Total Cover:			Species Across All Strata: 2 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')  1.Rosa gymnocarpa  2. 3. 4.	60	X	FAC	Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =
Herb Stratum (Plot size: 5')	Total Cover: 60	Tx	FAC	UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A =
1. Urtica dioica 2. 3. 4. 5. 6.	40	^		Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is =3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
8.  Woody Vine Stratum (Plot size: ) 1.	Total Cover: 40			¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation Present? Yes No □
2.	Total Cover:	- Cruet		Remarks:

Profile Desc	ription: (Describe to	the depth	needed to doo	ument the indicator	or confirm	the absence	of indicators.)
Depth	Matrix			dox Features	<del>, , , , , , , , , , , , , , , , , , , </del>	<b>-</b> .	;
(inches)	Color (moist)	%	Color (moist)	% Type¹	Loc²	Texture	Remarks
0-14	10YR3/3	100				S	
***************************************							
<sup>1</sup> Type: C=Co	ncentration, D=Deplet	tion DM-D	aduand Matrix	21 postions Dt -Day		O-D1 Ob	al Manhanas
Hvdric Soil I	ndicators: (Applicab	ole to all Li	edaced Matrix. ≀Rs. unless oth	nerwise noted \	e Lining, re		for Problematic Hydric Soils <sup>3</sup> :
Histosol			☐ Sandy Red	•			uck (A9) (LRR C)
	pipedon (A2)		☐ Stripped N	, ,			ick (A10) ( <b>LRR B</b> )
☐ Black Hi			☐ Loamy Mu	icky Mineral (F1)			d Vertic (F18)
	n Sulfide (A4)			eyed Matrix (F2)		☐ Red Pa	rent Material (TF2)
	Layers (A5) (LRR C) ck (A9) (LRR D)		☐ Depleted I	, ,		☐ Other (E	Explain in Remarks)
	Below Dark Surface (A	Δ11)		rk Surface (F6)			
	k Surface (A12)	n i i j		Dark Surface (F7) pressions (F8)			
	icky Mineral (S1)		☐ Vernal Poo			3Indicators	of hydrophytic vegetation and
	eyed Matrix (S4)		_				hydrology must be present.
Restrictive L	ayer (if present):				·····	I	
Туре:							
Described to							
Depth (incl	nes):					Hydric Soil	Present? Yes 🗌 No 🛛
Depth (incl Remarks:	nes):				***************************************	Hydric Soil	Present? Yes ☐ No ☒
	nes):				***************************************	Hydric Soil	Present? Yes 🗌 No 🛭
	nes):					Hydric Soil	Present? Yes □ No ⊠
	nes):					Hydric Soil	Present? Yes □ No ⊠
Remarks:	,					Hydric Soil	Present? Yes □ No ⊠
Remarks:	;Y						
Remarks: YDROLOG Vetland Hydr	iY rology Indicators:					Second	dary Indicators (2 or more required)
Remarks:  YDROLOG  Vetland Hydr  Primary Indica	iY rology Indicators: tors (any one indicato	or is sufficie				Second Wa	dary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> )
YDROLOG Vetland Hydr Irimary Indica Surface W	ology Indicators: tors (any one indicato ater (A1)	or is sufficie	☐ Salt Crus	, ,		Second  Wa	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
YDROLOG Vetland Hydr Primary Indica Surface W High Wate	ology Indicators: tors (any one indicato ater (A1) r Table (A2)	or is sufficie	☐ Sait Crus ☐ Biotic Cru	ıst (B12)		Second  Water Second Se	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> )
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation	iY rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3)		☐ Salt Crus ☐ Blotic Cru ☐ Aquatic In	ust (B12) vertebrates (B13)		Second  Wa  Second  Dri	dary Indicators (2 or more required) iter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark	iY rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	ust (B12) vertebrates (B13) u Sulfide Odor (C1)	living Poot	Second  Was  Second  Dri	dary Indicators (2 or more required)  Iter Marks (B1) (Riverine)  Idiment Deposits (B2) (Riverine)  If Deposits (B3) (Riverine)  Inage Patterns (B10)  In-Season Water Table (C2)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation of Water Mark	ology Indicators:  tors (any one indicato later (A1) r Table (A2) (A3) (S (B1) (Nonriverine) Deposits (B2) (Nonriv	verine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized	ist (B12) vertebrates (B13) i Sulfide Odor (C1) Rhizospheres along L	_	Second  Second  Second  Dra  Dra  Dry  S (C3)	dary Indicators (2 or more required) uter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) sinage Patterns (B10) r-Season Water Table (C2)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos	rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine	verine)	☐ Sait Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence	ust (B12) vertebrates (B13) i Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4)	)	Second  Second  Second  Dri  Dri  Dri  Cri  Cri  Cri  Cri	dary Indicators (2 or more required) uter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) sinage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8)
YDROLOG  Vetland Hydre  Primary Indicate  Surface W  High Wate  Saturation  Water Mark  Sediment I  Drift Depost  Surface So	rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine sits (B3) (Nonriverine	verine)	Sait Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence	ust (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4) on Reduction in Plowe	)	Second   Wa   Second   Dri   Dri   Dry   Cra   Cra   Cra   Second   Cra   Cra   Second   Second   Cra   Second   Second   Cra   Cra   Second   Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) A-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) auration Visible on Aerial Imagery (C
YDROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos I Surface So I Inundation	rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine	verine)	Sait Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence	ust (B12) vertebrates (B13) i Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4)	)	Second   Wa   Second   Dri   Dri   Dry   Cra   Cra   Cra   Sha	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)Season Water Table (C2) a Muck Surface (C7) ayfish Burrows (C8) curation Visible on Aerial Imagery (Callow Aquitard (D3)
PROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation I Water Mark Sediment I Drift Depos Surface So Inundation Water-Stair	iy rology Indicators: tors (any one indicato later (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Imagned Leaves (B9)	verine)	Sait Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence	ust (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4) on Reduction in Plowe	)	Second   Wa   Second   Dri   Dri   Dry   Cra   Cra   Cra   Sha	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) A-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) auration Visible on Aerial Imagery (C
YDROLOG Vetland Hydr Irimary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stail	rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3) cs (B1) (Nonriverine) Deposits (B2) (Nonriverine oil Cracks (B6) Visible on Aerial Imag ned Leaves (B9)	verine) i) gery (B7)	Sait Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc	ust (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4) on Reduction in Plowe	)	Second   Wa   Second   Dri   Dri   Dry   Cra   Cra   Cra   Sha	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)Season Water Table (C2) a Muck Surface (C7) ayfish Burrows (C8) curation Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain	rology Indicators: tors (any one indicato ater (A1) r Table (A2) (A3) as (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Nonriverine oil Cracks (B6) Visible on Aerial Imag ned Leaves (B9) tions: Present? Yes	verine) v) gery (B7) □ No ⊠	☐ Sait Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Irc ☐ Other (Exp	ust (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4) on Reduction in Plowe	)	Second   Wa   Second   Dri   Dri   Dry   Cra   Cra   Cra   Sha	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)Season Water Table (C2) a Muck Surface (C7) ayfish Burrows (C8) curation Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stail	rology Indicators: tors (any one indicato later (A1) r Table (A2) (A3) rs (B1) (Nonriverine) Deposits (B2) (Nonriverine oil Cracks (B6) Visible on Aerial Imagened Leaves (B9) tions: Present? Yes [	verine) e) gery (B7) □ No ⊠ □ No ⊠ [	Sait Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc	ust (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along L of Reduced Iron (C4) on Reduction in Plowe	ed Soils (C	Second  Wa  Se  Dri  Dra  Dry  S (C3) Thir  Cra  Sat  FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)Season Water Table (C2) a Muck Surface (C7) ayfish Burrows (C8) curation Visible on Aerial Imagery (Callow Aquitard (D3)

Remarks:

Project/Site: Hermiston LWI	pling Date:	7/10/	12		
Applicant/Owner: State: OR Sampling Point: 22					
Investigator(s): MRS Section, Township, Range: Te	4N. R28E. S	ec. 2	1B		
Landform (hillslope, terrace, etc.): Swale Local relief (conca				ncave Slor	oe (%)·0-3%
Subregion (LRR):D Lat: 45.8207 Long: -119.3305	Datum		·). ••.	.00.0	
		•			
Soil Map Unit Name: Quincy Loamy Fine Sand NWI classif					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly dis	turbed?	Are	e "Nor	mal Circun	nstances" present? Yes 🛛 No 🗌
Are Vegetation □, Soil □, or Hydrology □ naturally proble	matic?	(If	need	ed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No □			le th	e Sampleo	ті ∆леа
Hydric Soil Present? Yes ☒ No ☐				in a Wetla	
Wetland Hydrology Present? Yes ⊠ No □			**::::		Accord Accord
Remarks:Minihaha spring					
VEGETATION					
Tree Stratum (Plot size: )	Absolute % Cover			Indicator	Dominance Test worksheet:
1.	70 00401	000	7		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.		**********			
3.					Total Number of Dominant Species Across All Strata: 1 (B)
4.					
1					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover	:				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')_					Total % Cover of: Multiply by:
1.					OBL species x1 =
2.					FACW species x 2 =
3.					FAC species x 3 =
4.					FACU species x 4 =
5.					UPL species x 5 =
					Column Totals:(A)
Total Cover Herb Stratum (Plot size: 5')					(B)
1.Typha latifolia	40	х		OBL	Prevalence Index = B/A =
2.					Hydrophytic Vegetation Indicators:
3.					_ ☑ Dominance Test is >50%
4.					Prevalence index is =3.01
5.	_				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.					[ Problematic Hydrophytic Vegetation (Explain)
8.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		L	J	····	be present.
Total Cover	:				
Woody Vine Stratum (Plot size: )					Hydrophytic
1.					Vegetation
2.	<b></b>				Present? Yes No No
Total Cove					Remarks:
% Bare Ground in Herb Stratum60 open water	% C	over o	f Biot	ic Crust	

Arid West - Version 2.0

Depth	Matrix	•	h needed to doc Red	dox Features					•
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
0-14	10YR2/1	100	***************************************				S		
***************************************									
	-								
***************************************									
Type: C=Co	ncentration, D=De	pletion, RM≃l	Reduced Matrix.	<sup>2</sup> Location	: PL=Por	e Linina.	RC=Root	Channel.	M=Matrix.
łydric Soil Ir	ndicators: (Appli	cable to all L	.RRs, unless oth	erwise note	ed.)				Problematic Hydric Soils <sup>3</sup> :
Histosol			☐ Sandy Red	ox (S5)				I cm Muck	(A9) (LRR C)
	ipedon (A2)		Stripped M						(A10) (LRR B)
☐ Black His ☐ Hydrogei	stic (A3) n Sulfide (A4)		•	cky Mineral					/ertic (F18)
	Layers (A5) (LRR	c)	☐ Loamy Gle ☐ Depleted N		(F2)				t Material (TF2)
	k (A9) (LRR D)	0,	☐ Redox Dai		F6)		KJ (	⊃tner (Exp	lain in Remarks)
	Below Dark Surfac	e (A11)	Depleted [	,	,				
	Surface (A12)	, ,	☐ Redox De						
	cky Mineral (S1)		☐ Vernal Poo	ls (F9)	•		³(ndi	cators of h	ydrophytic vegetation and
	yed Matrix (S4)			****			W	etland hyd	Irology must be present.
	yer (if present):								
Type:									
Depth (inch	ies):						Hydri	c Soil Pre	sent? Yes 🛛 No 🗌
Remarks:									
	A hudrology oritoric			ator ic likely			لا اميمين من المناسبة	o be hydrid	c. Soil may meet A12 criteria -
egetation and	a nyulology chiella a to denth able to i	i met. Piot is make that de	located where wa	ater is likely	to pond a	and is det	terminea t	•	
egetation and ample not du	g to depth able to i	met. Plot is make that de	located where watermination.	ater is likely	to pond a	and is det	terminea t	ŕ	
ample not du	g to depth able to i	make that de	termination.	ater is likely	to pond a	and is det	erminea t		
DROLOG	g to depth able to I	make that de	located where watermination.	ater is likely	to pond a	and is def			Uladicators (O
'DROLOG	y to depth able to i	make that de	termination.	ater is intery	to pond a	and is def		Secondar	y Indicators (2 or more required)
/DROLOG /etland Hydr rimary Indica	Y  ology Indicators: tors (any one indic	make that de	ent)		to pond a	and is def		Secondar	Marks (B1) (Riverine)
/DROLOG /etland Hydr rimary Indica	Y  ology Indicators: tors (any one indicator (A1)	make that de	ent)  Salt Crust	ı (B11)	to pond a	and is def		Secondar  Water  Sedim	Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
/DROLOG /etland Hydr rimary Indica 3 Surface Wi 1 High Water	Y  ology Indicators: tors (any one indicator (A1) r Table (A2)	make that de	ent)  Salt Crusi  Biotic Cru	t (B11) st (B12)		and is def		Secondar  Water  Sedim Drift D	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine)
/DROLOG /etland Hydr rimary Indica 3 Surface Wi 3 High Water 3 Saturation (	Y  ology Indicators: tors (any one indicator (A1) r Table (A2) A3)	make that de	ent)  Salt Crusi Biotic Cru Aquatic In	i (B11) st (B12) vertebrates (	(B13)	and is def		Secondar  Water  Sedim  Drift D	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) age Patterns (B10)
*/ DROLOG /etland Hydr rimary Indica 3 Surface Wi 3 High Water 3 Saturation ( 3 Water Mark	Y  ology Indicators: tors (any one indicator (A1) r Table (A2) A3) s (B1) (Nonriverir	make that de	ent)  Salt Crust  Biotic Cru  Aquatic In:  Hydrogen	t (B11) st (B12) vertebrates ( Sulfide Odd	(B13) or (C1)			Secondar  Water  Sedim  Drift D  Drains  Dry-Se	Marks (B1) (Riverine) tent Deposits (B2) (Riverine) teposits (B3) (Riverine) tege Patterns (B10) teason Water Table (C2)
/DROLOG /etland Hydr rimary Indica / Surface Wi   High Water   Saturation (   Water Mark   Sediment C	Y  ology Indicators: tors (any one indicator (A1) r Table (A2) A3)	make that de  ator is suffici	ent)  Salt Crusi  Biotic Cru  Aquatic In  Hydrogen  Oxidized I	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere	(B13) or (C1) s along L	iving Roo	ots (C3)	Secondar  Water  Sedim  Drift D  Drains  Dry-Ss  Thin M	Marks (B1) (Riverine) tent Deposits (B2) (Riverine) teposits (B3) (Riverine) tage Patterns (B10) teason Water Table (C2) tuck Surface (C7)
/DROLOG /etland Hydr rimary Indica / Surface Wi / High Water / Saturation ( / Water Mark / Sediment D / Drift Depos	Y ology Indicators: tors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B2))	make that de  ator is suffici	ent)  Salt Crusi  Biotic Cru  Aquatic In  Hydrogen  Oxidized I	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere of Reduced	(B13) or (C1) os along L Iron (C4)	.iving Roo	ots (C3)	Secondar  Water Sedim Drift D Drains Dry-Se Thin M Crayfi	Marks (B1) (Riverine) ment Deposits (B2) (Riverine) peposits (B3) (Riverine) age Patterns (B10) peason Water Table (C2) muck Surface (C7) sh Burrows (C8)
/DROLOG /etland Hydr rimary Indica 3 Surface Wi 1 High Water 3 Saturation ( 1 Water Mark 4 Sediment C 5 Drift Depos 6 Surface So	y ology Indicators: tors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	make that de  sator is suffici- ne) nriverine) ine)	ent)  Salt Crust  Biotic Cru  Aquatic In:  Hydrogen  Oxidized I  Presence  Recent Irc	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere of Reduced on Reduction	(B13) or (C1) os along L Iron (C4) n in Plowe	.iving Roo	ots (C3)	Secondar  Water  Sedim  Drift D  Draina  Dry-Se  Thin M  Crayfii	Marks (B1) (Riverine) pent Deposits (B2) (Riverine) peposits (B3) (Riverine) peposits (B10) peason Water Table (C2) puck Surface (C7) psh Burrows (C8) pation Visible on Aerial Imagery (C
/DROLOG /etland Hydr rimary Indica  Surface Wi High Water Saturation ( Water Mark Sediment C Drift Depos Surface So	ology Indicators: tors (any one indicator (A1) r Table (A2) A3) s (B1) (Nonriverir Deposits (B2) (Nonits (B3) (Nonriveril Cracks (B6)	make that de  sator is suffici- ne) nriverine) ine)	ent)  Salt Crusi  Biotic Cru  Aquatic In  Hydrogen  Oxidized I	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere of Reduced on Reduction	(B13) or (C1) os along L Iron (C4) n in Plowe	.iving Roo	ots (C3)	Secondar  Water  Sedim  Drift D  Draina  Dry-Si  Thin M  Crayfi:  Satura	Marks (B1) (Riverine) ment Deposits (B2) (Riverine) peposits (B3) (Riverine) age Patterns (B10) peason Water Table (C2) muck Surface (C7) sh Burrows (C8)
YDROLOG Vetland Hydr Inimary Indica Surface Wi High Water Saturation ( Water Mark Sediment C Drift Depos Surface So	Y  ology Indicators: tors (any one indicator (A1) r Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Nonrivering (B3) (	make that de  sator is suffici- ne) nriverine) ine)	ent)  Salt Crust  Biotic Cru  Aquatic In:  Hydrogen  Oxidized I  Presence  Recent Irc	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere of Reduced on Reduction	(B13) or (C1) os along L Iron (C4) n in Plowe	.iving Roo	ots (C3)	Secondar  Water  Sedim  Drift D  Draina  Dry-Si  Thin M  Crayfi:  Satura	Marks (B1) (Riverine) tent Deposits (B2) (Riverine) teposits (B3) (Riverine) teposits (B3) (Riverine) tege Patterns (B10) teason Water Table (C2) tuck Surface (C7) this Burrows (C8) tion Visible on Aerial Imagery (C
/DROLOG /etland Hydr rimary Indica / Surface Wi   High Water   Saturation (   Water Mark   Sediment D   Drift Depos   Surface So   Inundation   Water-Stair	ology Indicators: tors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B	nake that de nator is suffici ne) nriverine) ine) magery (B7)	ent)  Salt Crust  Biotic Cru  Aquatic In:  Hydrogen  Oxidized I  Presence  Recent Irc	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere of Reduced on Reduction	(B13) or (C1) os along L Iron (C4) n in Plowe	.iving Roo	ots (C3)	Secondar  Water  Sedim  Drift D  Draina  Dry-Si  Thin M  Crayfi:  Satura	Marks (B1) (Riverine) tent Deposits (B2) (Riverine) teposits (B3) (Riverine) teposits (B3) (Riverine) tege Patterns (B10) teason Water Table (C2) tuck Surface (C7) the Burrows (C8) tion Visible on Aerial Imagery (C
/DROLOG /etland Hydr rimary Indica / Surface Wi   High Water   Saturation (   Water Mark   Sediment [   Drift Depos   Surface So   Inundation   Water-Stair	ology Indicators: tors (any one indicator (A1) r Table (A2) A3) s (B1) (Nonriverir Deposits (B2) (Nonriveril Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions: Present?	ne) nagery (B7) es 🛛 No 🗆	ent)  Salt Crusi  Biotic Cru  Aquatic In  Hydrogen  Oxidized I  Presence  Recent irc	t (B11) st (B12) vertebrates ( Sulfide Odo Rhizosphere of Reduced on Reduction	(B13) or (C1) os along L Iron (C4) n in Plowe	.iving Roo	ots (C3)	Secondar  Water  Sedim  Drift D  Draina  Dry-Si  Thin M  Crayfi:  Satura	Marks (B1) (Riverine) tent Deposits (B2) (Riverine) teposits (B3) (Riverine) teposits (B3) (Riverine) tege Patterns (B10) teason Water Table (C2) tuck Surface (C7) the Burrows (C8) tion Visible on Aerial Imagery (C

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date	: 7/10/	12		
Applicant/Owner: State: OR Sampling Point: 23					
Investigator(s): MRS Section, Township, Range: Te	4N, 28E, Se	ec 16			
Landform (hillslope, terrace, etc.): Terrace Local relief (con-	cave, conv	ex, nor	ne): None	e Slope	e (%):
Subregion (LRR):D Lat: 45.8306 Long: -119.3222	Datun		•	·	(**/
Soil Map Unit Name: Quincy Loamy Fine Sand NWI classifi		.,			
Are climatic / hydrologic conditions on the site typical for this		ar2 V	oo 🖾 No	. [""] /I£	an contain in Demanta )
Are Vegetation _, Soil _, or Hydrology _ significantly dis					nstances" present? Yes 🗵 No 🗌
Are Vegetation , Soil , or Hydrology naturally proble					any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	ipling p	point I	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			Is the S	Sampleo	d Area
Hydric Soil Present? Yes ☐ No ☒			within a	-	
Wetland Hydrology Present? Yes ☐ No ☒					
Remarks:West of property - Phalaris arundinacea, dogwood	d, coyote t	histle			
VEGETATION					
Tree Stratum (Plot size: )	Absolute % Cover		inant Ind		Dominance Test worksheet:
1.	T	1			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.					Total Number of Dominant
3.	<del> </del>				Species Across All Strata: 2 (B)
4.					
		L			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
Total Cover					Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')	······································			<del></del>	Total % Cover of: Multiply by:
1.Artemesia tridentata	15	×	NC	)L.	OBL species x 1 =
3.					FACW species x 2 =
4.					FAC species x 3 =
5.					FACU species x 4 =
0.					UPL species x 5 =
Total Cover:	V				Column Totals:(A)
Herb Stratum (Plot size: 5')	^				(B)
1.Bromus tectorum	30	Х	NO	)L	Prevalence Index = B/A =
2.Hordeum brachyantherum	5	*************	FA	CW	Hydrophytic Vegetation Indicators:
3.					Dominance Test is >50%
4.		***************************************			Prevalence Index is =3.01
5.		~/			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
6.		V			Problematic Hydrophytic Vegetation¹ (Explain)
7.					Froblematic Hydrophytic Vegetation (Explain)
8.					Indicators of hydric soil and wetland hydrology must
	1				be present.
Total Cover:	<u>35</u>				
Woody Vine Stratum (Plot size: )					Hydrophytic
1. 2.					Vegetation   Present?   Yes
Z. Total Cover:					
		_	,		Remarks:
% Bare Ground in Herb Stratum60 % Cov	er of Biotic	Crust	t		

US Army Corps of Engineers

Depth	Matrix		Re	dox Features	5		_				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture		Remar	ks
0-12	10YR3/3	100					GSL				
						***************************************		· · · · · · · · · · · · · · · · · · ·			
						,					
			***************************************							······	
									<u> </u>		
							<u> </u>				
			<del>-</del> ,								
1				2,							
	ncentration, D=De					re Lining,					6 - 21 3
	ndicators: (Appli	cable to all L			ea.)					•	ric Soils³:
☐ Histosol	(A1) pipedon (A2)		☐ Sandy Red						ick (A9) (L		
☐ Black H			Loamy Mu		(E1)				ck (A10) (i d Vertic (F	•	
	en Sulfide (A4)		☐ Loamy Gl	-					ent Materi	,	
	Layers (A5) (LRR	C)	☐ Depleted i		(, ~,				xplain in f		
	ck (A9) (LRR D)	,	☐ Redox Da	, ,	F6)			`	•	,	
	Below Dark Surfac	e (A11)	Depleted I	Dark Surface	e (F7)						
	k Surface (A12)		Redox De		F8)						
	icky Mineral (S1)		☐ Vernal Poo	ols (F9)						ytic vegeta	
	eyed Matrix (S4)	***					٧	vetland l	ydrology	must be pr	esent.
D 4-1 - 41 1											
	ayer (if present):										
Type:											_
							Hydr	ic Soil F	Present?	Yes 🗌	No ⊠
Type: Depth (inc Remarks:	hes):						Hydr	ic Soil F	Present?	Yes 🗆	No ⊠
Type: Depth (inc Remarks:	hes):						Hydr	ic Soil F	Present?	Yes 🗆	No ⊠
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd	hes): BY rology Indicators:						Hydr				No ⊠
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indica	hes):  SY rology Indicators: ators (any one indic		ient)				Hydr	Second	lary Indica		nore required
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica  Surface W	hes):  Y rology indicators: ators (any one indic		ient) Salt Crus	et (B11)			Hydr	Second Wa	lary indica ter Marks	etors (2 or r (B1) (Rive	nore required
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate	hes):  Y rology Indicators: ators (any one indic /ater (A1) er Table (A2)		☐ Salt Crus	ust (B12)			Hydr	Second	lary indica ter Marks liment De	etors (2 or r (B1) (Rive	nore required rine) (Riverine)
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturation	hes):  Fology Indicators: ators (any one Indic dater (A1) ar Table (A2) (A3)	cator is suffic	☐ Salt Crus	ust (B12)	(B13)		Hydr	Second  Wa  Sec	lary Indica ter Marks diment De t Deposits	ators (2 or r (B1) ( <b>Rive</b> posits (B2)	more required rine) (Riverine) erine)
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar	hes):  rology Indicators: ators (any one Indic ater (A1) ar Table (A2) (A3) ks (B1) (Nonriveria	cator is suffici	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	ust (B12) overtebrates o Sulfide Odd	or (C1)			Second Wa Sec	lary indica ter Marks diment De t Deposits inage Pat -Season V	etors (2 or r (B1) ( <b>Rive</b> posits (B2) s (B3) ( <b>Rive</b> terns (B10) Vater Table	more required rine) (Riverine) erine)
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Sediment	hes):  Y rology indicators: ators (any one indic /ater (A1) er Table (A2) (A3) ks (B1) (Nonriveria	cator is suffici ne) nriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	ust (B12) overtebrates o Sulfide Odd Rhizosphere	or (C1) es along			Second  Wa  Sec  Drift  Dra  Dry  Thir	dary Indica ter Marks diment De it Deposits inage Pat -Season V	etors (2 or r (B1) (Rive posits (B2) s (B3) (Rive terns (B10) Vater Table rface (C7)	more required rine) (Riverine) erine)
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo	hes):  rology indicators: ators (any one indice later (A1) er Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Norivering sits (B3) (Nonrivering	cator is suffici ne) nriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	ust (B12) overtebrates on Sulfide Odd Rhizosphere of Reduced	or (C1) es along d Iron (C4	1)	ots (C3)	Second  Wa  Sec  Drit  Dra  Dra  Thir	lary Indica ter Marks diment De t Deposits inage Pat -Season V Muck Sur yfish Burn	etors (2 or r (B1) (Rive posits (B2) (B3) (Rive terns (B10) Water Table rface (C7) ows (C8)	more required rine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo Surface S	hes):  rology indicators: ators (any one indic /ater (A1) er Table (A2) (A3) ks (B1) (Nonriveriation (B2) (Noriveriation (B3) (Nonriveriation (B3) (Nonriveriation (B3) (Nonriveriation (B6))	cator is suffici ne) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	ust (B12) overtebrates of Sulfide Odd Rhizosphere of Reduced on Reduction	or (C1) es along d Iron (C4 in in Plow	1)	ots (C3)	Second Wa Sec Drift Dra Dry Thir	lary Indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su yfish Burn uration Vis	etors (2 or r (B1) (Rive posits (B2) (B3) (Rive terns (B10 Vater Table rface (C7) ows (C8) sible on Ae	more required rine) (Riverine) erine)
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo Surface S Inundation	hes):  Fology Indicators:  ators (any one Indicators (A1)  Table (A2)  (A3)  ks (B1) (Nonrivering (B2) (Nonrivering (B3)	cator is suffici ne) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	ust (B12) overtebrates of Sulfide Odd Rhizosphere of Reduced on Reduction	or (C1) es along d Iron (C4 in in Plow	1)	ots (C3)	Second Wa Sec Drift Dra Dry Cra Sat	lary indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su yfish Burn uration Vis allow Aquit	ators (2 or r (B1) ( <b>Rive</b> posits (B2) s (B3) ( <b>Rive</b> terns (B10) Vater Table rface (C7) ows (C8) sible on Ae tard (D3)	more required rine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo Surface S Inundation Water-Sta	hes):  Prology Indicators: Ators (any one indicators) Ater (A1) Ar Table (A2) (A3) As (B1) (Nonrivering Deposits (B2) (Nonrivering B2) As (B3) (Nonrivering B3) As (B4) (Nonrivering B4) As (B4) (Nonrivering B4) As (B4) (Nonrivering B4) As (B4)	cator is suffici ne) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	ust (B12) overtebrates of Sulfide Odd Rhizosphere of Reduced on Reduction	or (C1) es along d Iron (C4 in in Plow	1)	ots (C3)	Second Wa Sec Drift Dra Dry Cra Sat	lary Indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su yfish Burn uration Vis	ators (2 or r (B1) ( <b>Rive</b> posits (B2) s (B3) ( <b>Rive</b> terns (B10) Vater Table rface (C7) ows (C8) sible on Ae tard (D3)	more required rine) (Riverine) erine) ) e (C2)
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Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo Surface S Inundation Water-Sta Field Observa	rology Indicators: ators (any one Indic vater (A1) er Table (A2) (A3) ks (B1) (Nonriverial Deposits (B2) (Nonriverial Sits (B3) (Nonriverial Cracks (B6) Visible on Aerial Indicators ined Leaves (B9) ations:	ne) nriverine) rine) magery (B7)	Salt Crus  Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrates n Sulfide Odo Rhizosphere of Reduced on Reduction plain in Rem	or (C1) es along d Iron (C4 in in Plow	1)	ots (C3)	Second Wa Sec Drift Dra Dry Cra Sat	lary indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su yfish Burn uration Vis allow Aquit	ators (2 or r (B1) ( <b>Rive</b> posits (B2) s (B3) ( <b>Rive</b> terns (B10) Vater Table rface (C7) ows (C8) sible on Ae tard (D3)	more required rine) (Riverine) erine) ) e (C2)
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Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre	hes):  FY  rology Indicators: ators (any one Indicators (B1) (Nonriversity (B2) (Nonriversity (B3) (Nonriversity (B3) (Nonriversity (B4) (Nonriversity (N	ne) nriverine) magery (B7)  res	Salt Crus  Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Other (Ex	ust (B12) overtebrates of Sulfide Odd Rhizosphere of Reduced on Reduction plain in Rem	or (C1) es along d Iron (C4 in in Plow	red Soils	ots (C3)	Second Wa See Drift Dra Dry Thir Cra Sat Sha	lary indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su i Muck Su i Muck Su ination Vis allow Aquit	ators (2 or r (B1) ( <b>Rive</b> posits (B2) s (B3) ( <b>Rive</b> terns (B10) Vater Table rface (C7) ows (C8) sible on Ae tard (D3)	more required rine) (Riverine) erine) ) e (C2) rial imagery (G
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Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W High Wate Saturation Water Mar Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre includes capil	hes):  FY  rology Indicators: ators (any one Indicators (B1) (Nonriversity (B2) (Nonriversity (B3) (Nonriversity (B3) (Nonriversity (B4) (Nonriversity (N	ne) nriverine) magery (B7)  es  No  ces  No  ces  No	Salt Crus  Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrates n Sulfide Odd Rhizosphere of Reduced on Reduction plain in Rem	or (C1) es along d Iron (C4 in in Plow narks)	ved Soils (	ots (C3) (C6)	Second  Wa  Sec  Drift  Dra  Dry  Thir  Cra  Sat  Sha  FAC	lary indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su i Muck Su i Muck Su ination Vis allow Aquit	ators (2 or r (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae tard (D3) Test (D5)	more required rine) (Riverine) erine) ) e (C2) rial imagery (G
Type: Depth (inc Remarks:  IYDROLOC Wetland Hyd Primary Indica Surface W Saturation Water Mar Sediment Drift Depo Surface S. Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre includes capil	hes):  Fresent?  Prology Indicators: ators (any one indicators (any one indicators) ators (A1) ar Table (A2) (A3) at (B1) (Nonrivering) atis (B3) (Nonrivering) ations: Present?  Y sent?  Y lary fringe)	ne) nriverine) magery (B7)  es  No  ces  No  ces  No	Salt Crus  Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrates n Sulfide Odd Rhizosphere of Reduced on Reduction plain in Rem	or (C1) es along d Iron (C4 in in Plow narks)	ved Soils (	ots (C3) (C6)	Second  Wa  Sec  Drift  Dra  Dry  Thir  Cra  Sat  Sha  FAC	lary indica ter Marks diment De t Deposits inage Pat -Season V i Muck Su i Muck Su i Muck Su ination Vis allow Aquit	ators (2 or r (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae tard (D3) Test (D5)	more required rine) (Riverine) erine) ) e (C2) rial imagery (G
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Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date:	7/10/1	2		
Applicant/Owner: State: OR Sampling Point: 24	. •				
Investigator(s): MRS Section, Township, Range: T4	N. R28. Se	c. 16			
Landform (hillslope, terrace, etc.): Floodplain Bench Local re			nvex. none	): Noi	one Slope(%):
Subregion (LRR):D Lat: 45.8389 Long: -119.3298	Datum		, , , , , , , , , , , , ,	,	
Soil Map Unit Name: Quincy Loamy Fine Sand NWI classifi					
		~~? V^	. M. N. D	) /3£ ~	no auniain in Romarka )
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation □, Soil □, or Hydrology □ significantly dist					nstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problem	natic?	(lf r	reeded, exp	plain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing	samp	oling poi	int lo	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes ☒ No ☐			ls the Sam	noled	i Area
Hydric Soil Present? Yes ☐ No 🗵		1	within a W	•	
Wetland Hydrology Present? Yes ☐ No ☒					
Remarks:					
VEGETATION					
Tree Stratum (Plot size: )	Absolute % Cover		nant Indica es? <u>Statu</u>		Dominance Test worksheet:  Number of Dominant Species
1.					That Are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: <u>2</u> (B)
4.					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover: Sapling/Shrub Stratum (Plot size: 5')					Prevalence index worksheet:
1.Celtis reticulata	60	x	FAC		Total % Cover of: Multiply by:
2. Salix sp.	30	×	FAC		OBL species x1 =
3.Rhus glabra	10		NOL		FACW speciesx 2 =
4.				-	FAC species x 3 =
5.					FACU species x 4 =
	L	L			UPL species x 5 =
Total Cover: <u>Herb Stratum</u> (Plot size: 5')	<u>100</u>				Column Totals: (A) (B)
1.			<u> </u>		Prevalence Index = B/A =
2.					Hydrophytic Vegetation Indicators:
3.					Dominance Test is >50%
4.					Prevalence Index is =3.01
5.					Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation¹ (Explain)
7.					Trobomado riyarophydo vogotador (Explain)
8.					¹Indicators of hydric soil and wetland hydrology must
					be present.
Total Cover:					
Woody Vine Stratum (Plot size: )					Hydrophytic
1. 2.				•	Vegetation   Present?   Yes   No
Z. Total Cover:					
	er of Biotic	Cruet			Remarks:
whate chouse in the colorada IV 70 COV	(U) U) D)U()	ノンバロるし			I and the second

Depth	iption: (Describe	to the dept	h needed to docu	ment the inc	licator or conf	irm the al	sence of in	idicators.)
	Matrix	•		ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type¹ Loc²	Tex	ture	Remarks
0-18	2.5Y4/2	100	I		l l	S	-	
						<del> </del>		
: 								
Type: C≔Con	centration, D=Dep	oletion, RM=F	Reduced Matrix.	<sup>2</sup> Location: f	PL≂Pore Lining	, RC=Roo	t Channel, N	∕l=Matrix.
		able to all L	RRs, unless othe		.)	Indi	icators for F	Problematic Hydric Solls <sup>3</sup> :
Histosol (			Sandy Redo					(A9) (LRR C)
☐ Histic Epi ☐ Black Hist	pedon (A2)		Stripped Ma					A10) ( <b>LRR B</b> )
	Sulfide (A4)		☐ Loamy Muc ☐ Loamy Gley				Reduced Ve	
	ayers (A5) (LRR (	C)	☐ Depleted M		<u>2)</u>			Material (TF2)
	(A9) (LRR D)	Ψ,	Redox Dark		)	Ш	Otner (Expla	ain in Remarks)
	elow Dark Surface	∍ (A11)		ark Surface (F				
☐ Thick Dark			☐ Redox Dep		•			
	ky Mineral (S1)		☐ Vernal Pools	s (F9)		<sup>3</sup> Ind	icators of hy	drophytic vegetation and
	ed Matrix (S4)							ology must be present.
	yer (if present):							
Type:								
Depth (inche	es):					Hydr	ic Soil Pres	ent? Yes 🗌 No 🛛
Remarks:							***************************************	
/DROLOG)	<i>-</i>	<u></u>					·····	
etland Hydro	logy Indicators:						Secondary	Indicators (2 or more required)
etland Hydro		ator is sufficie	ent)					Indicators (2 or more required) Marks (B1) (Riverine)
rimary Indicato	logy Indicators: ors (any one indica ter (A1)	ator is sufficie	ent)	(B11)			☐ Water N	Marks (B1) (Riverine)
Vetland Hydro rimary Indicato	logy Indicators: ors (any one indica ter (A1)	ator is sufficie		-			☐ Water M	Marks (B1) (Riverine) nt Deposits (B2) (Riverine)
Vetland Hydro rimary Indicato   Surface Wat   High Water	logy Indicators: ors (any one indica ter (A1) Table (A2) \(\frac{1}{3}\)		☐ Salt Crust (	t (B12)	13)		☐ Water M☐ Sedime☐ Drift De	Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine)
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks	logy Indicators: ors (any one indica ter (A1) Table (A2) (3) (B1) (Nonriverina	<b>e</b> )	☐ Salt Crust (☐ Biotic Crus☐ Aquatic Inve	t (B12)			☐ Water M☐ Sedime ☐ Drift De ☐ Drainag	Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) ne Patterns (B10)
Vetland Hydro rimary Indicate Surface Wate High Water Saturation (A Water Marks Sediment De	logy Indicators: ors (any one indica ter (A1) Table (A2) \(\mathrm{\text{3}}\) (B1) (Nonrivering eposits (B2) (Nonr	e) riverine)	☐ Salt Crust (☐ Blotic Crus ☐ Aquatic Inve	t (B12) ertebrates (B1 Sulfide Odor (		ots (C3)	☐ Water M☐ Sedime☐ Drift De☐ Drainag☐ Dry-Sea	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Int Patterns (B10) Int Patterns (B10) Int Patterns (B10)
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Inft Deposit	logy Indicators: ors (any one indicator (A1) Table (A2) (B1) (Nonrivering eposits (B2) (Nonrivering (B3) (Nonrivering	e) riverine)	Salt Crust ( Biotic Crus Aquatic Inve Hydrogen S Oxidized R	t (B12) ertebrates (B1 Sulfide Odor (	C1) along Living Ro	ots (C3)	☐ Water M☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Int Patte
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil	logy Indicators: ors (any one indicator (A1) Table (A2) (A3) (B1) (Nonrivering eposits (B2) (Nonrivering (B3) (Nonrivering Cracks (B6)	e) riverine) ne)	Salt Crust ( Biotic Crus Aquatic Inve Hydrogen S Oxidized R	t (B12) artebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro	C1) along Living Ro on (C4)	,	☐ Water M ☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu ☐ Crayfish	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interested (B10) Intereste
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Inundation V	logy Indicators: ors (any one indicator (A1) Table (A2) (A3) (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B6)) (Fisible on Aerial Im	e) riverine) ne)	Salt Crust ( Biotic Crus Aquatic Inve Hydrogen S Oxidized R Presence o	t (B12) ertebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro n Reduction in	C1) along Living Ro on (C4) Plowed Soils (	,	☐ Water M ☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu ☐ Crayfish ☐ Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Interpolate (B10) Inte
Vetland Hydro rimary Indicate Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V	logy Indicators: ors (any one indicator (A1) Table (A2) (A3) (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B4))	e) riverine) ne)	Salt Crust ( Biotic Crus Aquatic Inve Hydrogen S Oxidized R Presence o	t (B12) ertebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro n Reduction in	C1) along Living Ro on (C4) Plowed Soils (	,	☐ Water M ☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu ☐ Crayfish ☐ Saturati ☐ Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interested (B10) Intereste
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine	logy Indicators: ors (any one indicators (any one indicator (A1) Table (A2) (B1) (Nonrivering (B2) (Nonrivering (B3) (No	e) riverine) ne) eagery (B7)	☐ Salt Crust (☐ Biotic Crus ☐ Aquatic Inve ☐ Hydrogen S☐ Oxidized R☐ Presence o☐ Recent Iron☐ Other (Expla	t (B12) ertebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro n Reduction in	C1) along Living Ro on (C4) Plowed Soils (	,	☐ Water M ☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu ☐ Crayfish ☐ Saturati ☐ Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interpolation (B10) Interpo
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine eld Observation	logy Indicators: ors (any one indicators (any one indicator (A1) Table (A2) (A3) (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B6)) (Isible on Aerial Imped Leaves (B9) ons: resent? Ye	e) riverine) ne) eagery (B7)	Salt Crust ( Biotic Crus Aquatic Inve Hydrogen S Oxidized R Presence o	t (B12) ertebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro n Reduction in	C1) along Living Ro on (C4) Plowed Soils (	,	☐ Water M ☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu ☐ Crayfish ☐ Saturati ☐ Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interpolation (B10) Interpo
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine	logy Indicators: ors (any one indicator (A1) Table (A2) A3) (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B6)) Cracks (B6) disible on Aerial Imped Leaves (B9) ons: resent? Ye	e) riverine) ne) sagery (B7)	☐ Salt Crust (☐ Biotic Crus ☐ Aquatic Inve ☐ Hydrogen S☐ Oxidized R☐ Presence o☐ Recent Iron☐ Other (Expla	t (B12) ertebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro n Reduction in	C1) along Living Ro on (C4) Plowed Soils (	,	☐ Water M ☐ Sedime ☐ Drift De ☐ Drainag ☐ Dry-Sea ☐ Thin Mu ☐ Crayfish ☐ Saturati ☐ Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interpolation (B10) Interpo
Vetland Hydro rimary Indicate Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine eld Observation	logy Indicators: ors (any one indicator (A1) Table (A2) (A3) (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B4) (B4)) ors: resent? Yesent? Yesent? Yesent? Yesent?	e) riverine) ne) nagery (B7) s □ No ⊠	☐ Salt Crust (☐ Biotic Crus ☐ Aquatic Inve ☐ Hydrogen S☐ Oxidized R☐ Presence o☐ Recent Iron☐ Other (Expla	t (B12) ertebrates (B1 Sulfide Odor ( hizospheres a of Reduced Iro n Reduction in	C1) along Living Ro on (C4) Plowed Soils ( s)	C6)	Water M Sedime Drift De Drift De Drainag Dry-Sea Thin Mu Crayfish Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interpolation (B10) Interpo

Project/Site: Hermiston LWI City/County: Hermiston Sam Applicant/Owner: State: OR Sampling Point: 25 Investigator(s): MRS Section, Township, Range: T4 Landform (hillslope, terrace, etc.): Floodplain Bench Local re Subregion (LRR):D Lat: 45.8389 Long: -119.3298 Soil Map Unit Name: Quincy Loamy Fine Sand NWI classific Are climatic / hydrologic conditions on the site typical for this Are Vegetation [], Soil [], or Hydrology [] significantly dist Are Vegetation [], Soil [], or Hydrology [] naturally problems SUMMARY OF FINDINGS — Attach site map 5	N, R 28E, 3 ellef (conca Datum cation: time of yea urbed? matic?	Sec. 1 ve, co : ar? Ye Are (If	6 nvex, es ⊠ e "Nor need	No	no, explain in Remarks.) nstances" present? Yes ⊠ No ☐ any answers in Remarks.)
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes ☑ No ☑  Yes ☐ No ☑			ls th	e Sampled in a Wetlar	l Area
LIPOPTATION!					
Tree Stratum (Plot size: )  1.	Absolute % Cover			Indicator Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2. 3.					Total Number of Dominant Species Across All Strata:1 (B)
4. Total Cover					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 5')					Prevalence Index worksheet:
1.	T				Total % Cover of: Multiply by:
2.					OBL species x 1 =
3.					FACW speciesx 2 =
4.					FAC species x3 =
5.					FACU species x 4 =
		I			UPL species         x 5 =           Column Totals:         (A)
Total Cover Herb Stratum (Plot size: 5')	·				(B)
1.Phalaris arundinacea	95	х		FACW	Prevalence Index = B/A =
2.					Hydrophytic Vegetation Indicators:
3.					☐ Dominance Test is >50%
4.					Prevalence Index is =3.01  Morphological Adaptations1 (Provide supporting
5.					data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.					
8.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover  Woody Vine Stratum (Plot size: )  1. 2.	: <u>95</u>				Hydrophytic Vegetation Present? Yes ⊠ No □
Z. Total Cover	:				Remarks: Some rose at edge.
	· er of Biotic	Crust			Tremarks, como roso al ougo.

Arid West -- Version 2.0

	ription: (Describe	to the dep	oth needed to doc	ument the	indicator	or confi	m the	absence of	f indicators.)	
Depth	Matrix		Red	dox Featur	es		_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Te	exture	Remarks	·
0-18	10YR3/2	100			1		S		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		<del> </del>								
							······································			
		<del>-</del>								
·										
4				_						
	ncentration, D=Der			<sup>2</sup> Locatio	n: PL=Po	re Lining,			I, M=Matrix.	
	ndicators: (Applic	cable to all			ted.)				or Problematic Hydric S	oils³:
☐ Histosol ☐ Histic Er	(A1) pipedon (A2)		☐ Sandy Red	, ,					ck (A9) (LRR C)	
☐ Black Hi			☐ Stripped M ☐ Loamy Mu		u /도4\				k (A10) ( <b>LRR B</b> ) Vertic (F18)	
	n Sulfide (A4)		☐ Loamy Gle						nt Material (TF2)	
	Layers (A5) (LRR	C)	☐ Depleted f	•					plain in Remarks)	
	ck (A9) (LRR D)		☐ Redox Dar	rk Surface	(F6)			,	,	
	Below Dark Surface	e (A11)	Depleted [		. ,					
	k Surface (A12)		☐ Redox De		F8)		9.			
	icky Mineral (S1) eyed Matrix (S4)		☐ Vernal Poo	ls (F9)			°lr		hydrophytic vegetation a	
	ayer (if present):							wettand ny	ydrology must be present	•
IVESUICHVE F							1	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	ajor (ii proserity.									
Type:	,						12	duis es il b		
Type: Depth (incl	,						Hye	dric Soil Pr	resent? Yes 🗌 No [	X
Type:	,						Hyd	dric Soil Pr	resent? Yes 🗌 No [	X.
Type: Depth (incl	,						Нус	dric Soil Pr	resent? Yes 🗌 No [	X
Type: Depth (incl	,						Нус	dric Soil Pr	resent? Yes 🗌 No 🛭	⊠
Type: Depth (incl	,						Нус	dric Soil Pr	resent? Yes 🗌 No [	⊠
Type: Depth (incl Remarks:  YDROLOG	nes): SY						Hya	dric Soil Pa	resent? Yes 🗌 No [	⅓
Type: Depth (incl Remarks:  YDROLOG	nes):						Нус		resent? Yes  No [	
Type: Depth (incl Remarks:  YDROLOG Wetland Hydi	nes): SY		cient)				Hy	Seconda		
Type: Depth (incl Remarks:  YDROLOG Wetland Hydi	nes):  Y rology Indicators:  ttors (any one indic		cient) ☐ Salt Crus·	t (B11)			Ну	Seconda □ Wate	ary Indicators (2 or more r	equired)
Type: Depth (incl Remarks:  YDROLOG  Wetland Hydr Primary Indica	nes):  Y rology Indicators:  ttors (any one indic						Нус	Seconda □ Wate □ Sedi	ary Indicators (2 or more r er Marks (B1) (Riverine)	required)
Type: Depth (incl Remarks:  YDROLOG  Wetland Hydi Primary Indica Surface W High Wate Saturation	rology Indicators: stors (any one indicator (A1) or Table (A2) (A3)	ator is suffi	☐ Salt Crus	ıst (B12)	s (B13)		Нус	Seconda □ Wate □ Sedi □ Drift	ary Indicators (2 or more r er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riv</b> e	required)
Type: Depth (Incl Remarks:  YDROLOG  Wetland Hydi Primary Indica Surface W High Wate Saturation Water Mark	rology Indicators: tors (any one indicator (A1) or Table (A2) (A3) or (B1) (Nonrivering	ator is suffi	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	ist (B12) vertebrates Sulfide Od	dor (C1)			Seconda  Wate Sedi Drift Drair	ary Indicators (2 or more r er Marks (B1) (Riverine) ment Deposits (B2) (Rive Deposits (B3) (Riverine)	equired)
Type: Depth (Incl Remarks:  YDROLOG Wetland Hydi Primary Indica Surface W High Wate Saturation Water Mark	rology Indicators: stors (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonriverin	ator is suffi ne) nriverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic in ☐ Hydrogen ☐ Oxidized	ist (B12) vertebrates Sulfide Od Rhizosphe	dor (C1) res along l			Seconda  Wate Sedi Drift Drain Dry-	ary Indicators (2 or more r er Marks (B1) (Riverine) ment Deposits (B2) (Rive Deposits (B3) (Riverine) nage Pattems (B10)	equired) erine)
Type: Depth (Incl Remarks:  YDROLOG Wetland Hydi Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos	rology Indicators: stors (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonriverination (B2) (Nonsits (B3) (Nonriversits (	ator is suffi ne) nriverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic in ☐ Hydrogen ☐ Oxidized	ist (B12) vertebrates Sulfide Od	dor (C1) res along l			Seconda  Sedi  Drift  Drair  Dry-{	ary Indicators (2 or more r er Marks (B1) (Riverine) ment Deposits (B2) (Rive Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)	equired) erine)
Type: Depth (incl Remarks:  YDROLOG  Vetland Hydre Surface W High Wate Saturation Water Mark Sediment   Drift Depos	rology Indicators: stors (any one indicator (A1) or Table (A2) (A3) ss (B1) (Nonrivering (B2) (Nonsits (B3) (Nonrivering (B3) (R5))	ator is suffi ne) nriverine) ine)	☐ Salt Crus ☐ Blotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	)	ots (C3	Seconda  Wate Sedi Drift Drair Thin Cray Satu	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Im	equired)
Type: Depth (Incl Remarks:  YDROLOG  Vetland Hydica Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation	rology Indicators: stors (any one indicators (A1) or Table (A2) (A3) ss (B1) (Nonrivering Deposits (B2) (Nonrivering Deposits (B3) (Nonrivering Cracks (B6) Visible on Aerial In	ator is suffi ne) nriverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	)	ots (C3	Seconda  Wate Sedi Drift Drair Cray Satu	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Indiow Aquitard (D3)	equired)
Type: Depth (Incl Remarks:  YDROLOG  YDROLOG  Wetland Hydi Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Surface So Inundation Water-Stai	rology Indicators: stors (any one indicators (A1) or Table (A2) (A3) (S (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonriv	ator is suffi ne) nriverine) ine)	☐ Salt Crus ☐ Blotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	)	ots (C3	Seconda  Wate Sedi Drift Drair Cray Satu	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Im	equired)
Type: Depth (Incl Remarks:  YDROLOG  YDROLOG  Wetland Hydio Surface W High Wate Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stai	rology Indicators:  tors (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonriverination (B2) (Nonriverination (B3) (Nonriverina	ator is suffi ne) nriverine) ine) nagery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro ☐ Other (Exp	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	)	ots (C3	Seconda  Wate Sedi Drift Drair Cray Satu	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Indiow Aquitard (D3)	equired)
Type: Depth (incl Remarks:  YDROLOG  YDROLOG  Wetland Hydica Surface W High Wate Saturation Water Mark Sediment Drift Depos Surface So Inundation Water-Stai ield Observa	rology Indicators: stors (any one indicators (any one indicator (A1)) or Table (A2) (A3) os (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6) Visible on Aerial Indicators (B9) or Tesent?	ator is suffine) iniverine) ine) magery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ ☐ Presence ☐ Recent Iro ☐ Other (Exp	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	)	ots (C3	Seconda  Wate Sedi Drift Drair Cray Satu	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Indiow Aquitard (D3)	equired)
Type: Depth (Incl Remarks:  YDROLOG  YDROLOG  Wetland Hydie Surface W High Wate Saturation Water Mark Sediment I Drift Depoi Surface So Inundation Water-Stai ield Observa	rology Indicators: stors (any one indicators (any one indicators (A1)) r Table (A2) (A3) (S (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonr	ator is suffine) iniverine) ine) magery (B7	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent Iro ☐ Other (Exp	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	)	ots (C3	Seconda  Wate Sedi Drift Drair Cray Satu	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Indiow Aquitard (D3)	equired)
Type: Depth (incl Remarks:  YDROLOG  YDROLOG  Vetland Hydre Surface W High Wate Saturation Water Mark Sediment Drift Depos Surface So Inundation Water-Stai ield Observa	rology Indicators: stors (any one indicators (any one indicator (A1)) or Table (A2) (A3) os (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonr	ator is suffine) Ine) Inagery (B7 Ines No [	Salt Crus Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro Other (Exp	est (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along i d Iron (C4 on in Plow	) ed Solls (	ots (C3)	Seconda  Wate Sedi Drift Drair Cray Satu Shall	ary Indicators (2 or more refer Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Indiow Aquitard (D3)	required) erine) nagery (C9)

Project/Site: Hermiston LWI City/Cour	ty: Hermiston Sampling	Date: 7/31	/12		
Applicant/Owner: State: OR S	Sampling Point: 26				
Investigator(s): MRS Section, To	ownship, Range: T4N, R:	28E, Sec. (	3		
Landform (hillstope, terrace, etc.): Terrace	e Local relief (concave,	convex, no	one): None Slope	e (%):	
Subregion (LRR):D Lat: 45.8310		Datum:			
Soil Map Unit Name: Winchester Sand 1				•	
Are climatic / hydrologic conditions on the		of year?	/as IZI No ITI (If	no evolain in Remarks )	
Are Vegetation □, Soil □, or Hydrology					. r1
Are Vegetation ☐, Soil ☐, or Hydrology	- · · · · · · · · · · · · · · · · · · ·			nstances" present? Yes 🔯 No	, <u> </u>
			, ,	any answers in Remarks.)	
SUMMARY OF FINDINGS – At	ach site map show	ving san	ipiing point	locations, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present?	Yes ⊠ No 🗌		is the Sample	d Area	
Hydric Soil Present?	Yes ☐ No 🔯		within a Wetla		
Wetland Hydrology Present?  Remarks:	Yes 🗌 No 🛛				
Admarks.					
VEGETATION					
Tree Stratum (Plot size: 30)			ninant Indicator 3? Status	Dominance Test worksheet	
1.Populous deltoides	60	***************************************	FAC	Number of Dominant Species That Are OBL, FACW, or FAC	; D: 2 (A)
2.				Total Number of Dominant	. ,
3.				Species Across All Strata:	<u>3</u> (B)
4.				Percent of Dominant Species	
				That Are OBL, FACW, or FAC	
Carting/Chauth Chartery (Diet siese El)	Total Cover: 60			Prevalence Index workshee	t:
Sapling/Shrub Stratum (Plot size: 5')  1.				Total % Cover of:	
2.				OBL species	
3.				FACW species	
4.				FAC species	x 3 =
5.				FACU species	x 4 =
0.				UPL species	x 5 =
	Total Cover:			Column Totals:	(A)
Herb Stratum (Plot size: 5')				(B)	
1.Festuca arundinacea	50	×	FAC	Prevalence Index = B/A	
2.Dactylis glomerata	25	×	FACU	Hydrophytic Vegetation Indi	
3.				Dominance Test is >50	
4.				Prevalence Index is =3	
5.				Morphological Adaptati data in Remarks or on	ions' (Provide supporting a separate sheet)
6.				Problematic Hydrophy	•
7.					, ,
8.				<sup>1</sup> Indicators of hydric soil and v	vetland hydrology must
	Total Cover: 75			be present.	
Woody Vine Stratum (Plot size: )	Total Cover. 10			11 1 3 49-	
1.				Hydrophytic Vegetation	
2.				Present? Yes	No
	Total Cover:			Remarks:	
% Bare Ground in Herb Stratum	20 % Cover of I	Biotic Crus	t		

Depth	ription: (Describe	to the deptl	needed to doc	ument the indicator	or confi	m the absence	of indicators.)
UCHUI	Matrix			lox Features		<u>.</u>	
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18	2.5Y3/2	100				LS	
		<del> </del>					
		-					
		<del> </del>					
					, .,		
		The second of th		***************************************			
	ncentration, D≃Der			<sup>2</sup> Location: PL≔Po	re Lining,		
ydric Soil I	ndicators: (Applic	cable to all L	RRs, unless oth	erwise noted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
] Histosol	, ,		Sandy Red				uck (A9) ( <b>LRR C</b> )
	olpedon (A2)		Stripped M	, ,			ıck (A10) ( <b>LRR B</b> )
] Black Hi				cky Mineral (F1)			ed Vertic (F18)
	n Sulfide (A4) Layers (A5) ( <b>LRR</b>	<b>~</b> \		eyed Matrix (F2)			rent Material (TF2)
	ck (A9) (LRR D)	<b>(</b> )	☐ Depleted M☐ Redox Dar	• •		Uther (I	Explain in Remarks)
	Below Dark Surfac	e (A11)		Dark Surface (F7)			
· ·	k Surface (A12)	0 (/ 11 1)	☐ Redox Dep				
	icky Mineral (S1)		☐ Vernal Poo			<sup>3</sup> Indicators	of hydrophytic vegetation and
	eyed Matrix (S4)			` '			hydrology must be present.
strictive L	ayer (if present):	***************************************					
T						1	
Type:							
l ype: Depth (incl	nes):					Hydric Soil	Present? Yes □ No ⊠
• •	nes):					Hydric Soil	Present? Yes □ No ⊠
Depth (Incl	nes):					Hydric Soil	Present? Yes □ No 🗵
Depth (incl	nes):					Hydric Soil	Present? Yes □ No ⊠
Depth (incl	nes):					Hydric Soil	Present? Yes □ No ⊠
Depth (inclemarks:						Hydric Soil	Present? Yes □ No ⊠
Depth (inclemarks:							Present? Yes □ No ⊠  dary Indicators (2 or more required
Depth (Inclemarks:  DROLOG	3Y		ent)			Secon	
Depth (inclemarks:  DROLOG  etland Hydi mary Indica	SY rology Indicators: itors (any one indic			E (B11)		Secon	dary indicators (2 or more required ater Marks (B1) ( <b>Riverine</b> )
Depth (Inclemarks:  DROLOGetland Hydromary Indication	SY rology Indicators: itors (any one indic		☐ Salt Crust			Secon	dary Indicators (2 or more required ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Depth (Inclemarks:  DROLOG  etland Hydrical mary Indical Surface W High Wate	GY rology Indicators: utors (any one indic (ater (A1) er Table (A2)		☐ Salt Crust	st (B12)		Secon	dary indicators (2 or more required ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ift Deposits (B3) ( <b>Riverine</b> )
Depth (Inclemarks:  DROLOG  etland Hydr  mary Indica  Surface W  High Water  Saturation	GY rology Indicators: utors (any one indic (ater (A1) er Table (A2)	ator is suffici	☐ Salt Crust☐ Biotic Cru☐ Aquatic In	st (B12) vertebrates (B13)		Secon  We Secon  Dri	dary indicators (2 or more required ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ift Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)
Depth (Inclemarks:  DROLOG  etland Hydromary Indication  Surface W  High Water  Saturation  Water Mark	GY rology Indicators: itors (any one indic fater (A1) or Table (A2) (A3)	ator is sufficion	☐ Salt Crust☐ Biotic Cru☐ Aquatic In•☐ Hydrogen	st (B12) vertebrates (B13) Sulfide Odor (C1)	Living Ro	Secon  Was  Secon  Dri	dary Indicators (2 or more required ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ift Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2)
Depth (Inclemarks:  DROLOG  etland Hydrimary Indica Surface W High Water Saturation Water Mark	GY rology Indicators: stors (any one indiceleter (A1) or Table (A2) (A3) or (B1) (Nonriverin	ator is sufficion ne) nriverine)	☐ Salt Crusi ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along	-	Secon  Secon  Se  Dri Dri Dri ots (C3)	dary indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Depth (Inclements:  DROLOGetland Hydrogetland Hydrogetlan	orology Indicators:  ators (any one indicester (A1)  Table (A2)  (A3)  (A3)  (A6)  Deposits (B2) (Non	ator is sufficion ne) nriverine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4	)	Secon   Wi   Se   Dri   Dri   Dri   ots (C3)   Thi   Cri	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) (B10) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Depth (Inclements:  DROLOG  etland Hydrimary Indica  Surface W  High Water  Saturation  Water Mark  Sediment I  Drift Depor	orology Indicators:  stors (any one indice fater (A1)  Table (A2) (A3)  KS (B1) (Nonrivering Deposits (B2) (Nonsite (B3) (Nonrivering Clacks (B3) (Nonrivering Clacks (B6)	ator is sufficience) ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized I Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4 on Reduction in Plow	)	Secon	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) (B1) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Catternative (C3)
DROLOG  etland Hydrimary Indica  Surface W  High Water  Saturation  Water Mark  Sediment is  Drift Depositions  Surface Solundation	rology Indicators:  stors (any one indice fater (A1)  Table (A2) (A3)  KS (B1) (Nonrivering Deposits (B2) (Nonrivering  Sits (B3) (Nonriver	ator is sufficience) ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized I Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4	)	Secon	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (Inclemarks:  DROLOG  etland Hydromary Indicate  Surface W  High Water Saturation  Water Mark  Sediment I  Drift Depor	rology Indicators: stors (any one indice fater (A1) or Table (A2) (A3) os (B1) (Nonriverina Deposits (B2) (Nonsits (B3) (Nonriverina oil Cracks (B6) Visible on Aerial In	ator is sufficience) ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic Int Hydrogen Oxidized I Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4 on Reduction in Plow	)	Secon	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) (B1) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Catternative (C3)
Depth (Inclemarks:  DROLOG  etland Hydromary Indicated Seturation  Water Mark Sediment Sediment Sediment Sediment Sediment Sediment Surface Sediment Surface Sediment Surface Sediment Surface Sediment Sediment Surface Sediment Sediment Surface Sediment Surface Sediment Sedi	rology Indicators:  stors (any one indicenter (A1)  re Table (A2) (A3) (A3) (A5) (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering Cracks (B6)  Visible on Aerial Inned Leaves (B9)  stions:	ne) nriverine) ine) magery (B7)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Int ☐ Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4 on Reduction in Plow	)	Secon	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (Inclemarks:  DROLOG etland Hydromary Indicate Surface W High Water Saturation Water Mark Sediment I Drift Depose Inundation	rology Indicators:  tors (any one indice fater (A1)  Trable (A2) (A3)  Ks (B1) (Nonrivering Deposits (B2) (Nonrivering Dil Cracks (B6)  Visible on Aerial In The deduces (B9)  Intions:  Present?	ne) nriverine) ine) magery (B7) es □ No ⊠	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Int ☐ Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4 on Reduction in Plow	)	Secon	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (Inclemarks:  DROLOG  etland Hydinimary Indication    Surface Water Mark   Saturation   Water Mark   Sediment     Drift Depoil   Surface Solinundation   Water-Staineld Observatiface Water	rology Indicators:  stors (any one indicator)  fater (A1)  rable (A2)  (A3)  s (B1) (Nonrivering  Deposits (B2) (Nonrivering  Cracks (B6)  Visible on Aerial In the control of the control  tions:  Present?  Yes	ne) nriverine) ine) magery (B7) es □ No ⊠ es □ No ⊠	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Int ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Int ☐ Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4 on Reduction in Plow	) ed Soils (	Secon	dary Indicators (2 or more required ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)

Project/Site: Hermiston LWI City/Count	y: Hermiston Sampl	ing Date: 7	//31/1	2	
	ampling Point: 27				
Investigator(s): MRS Section, To	wnship, Range: T4N	I. R28E. S∈	ec. 4		
Landform (hillslope, terrace, etc.): Terrace				e): None Stope	(%):
	Long: -119.3140	Datum:	,	-,	
Soil Map Unit Name: Xerofluvents NWI of	•				
Are climatic / hydrologic conditions on the		me of year	2 Va	e ⊠ No □ //f	no evolain in Remarks )
Are Vegetation , Soil , or Hydrology [					nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology [					· —
	····		·	•	any answers in Remarks.)
SUMMART OF FINDINGS - ALL	ach site map si	iowing s	am	omig pomit i	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗌 No 🖾			ls the Sampled	l Area
Hydric Soll Present?	Yes ☐ No 🏻		- 1	within a Wetla	
Wetland Hydrology Present?  Remarks:Sewage Treatment Plant	Yes ☐ No ☒				
Remarks.Sewage Treatment Frant		·			
VEGETATION					
Tree Stratum (Plot size: 30)		Absolute over Spe		nant Indicator Status	Dominance Test worksheet:
1.Populous tremuloides			X	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 4 (B)
4,					Percent of Dominant Species
	······································				That Are OBL, FACW, or FAC: 50 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:	<u>40</u>			Prevalence Index worksheet:
1.Crataegus douglasii	T	5	X	FAC	Total % Cover of: Multiply by:
2.					OBL species x 1 =
3.			,		FACW species x 2 =
4.					FAC species x 3 =
5.					FACU species x 4 =
					UPL species x 5 =
Herb Stratum (Plot size: 5')	Total Cover:	2			Column Totals: (A)
1.Medicago lupulina		40	x	FAC	Prevalence Index = B/A =
2.Bromus tectorum		40	X	NOL	Hydrophytic Vegetation Indicators:
3.					Dominance Test is >50%
4.					Prevalence Index is =3.01
5,					Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.					
8.					¹Indicators of hydric soil and wetland hydrology must be present.
	Total Cover:	80			be present.
Woody Vine Stratum (Plot size: )	101011 001011	Washington .			Hydrophytic
1.					Vegetation
2.					Present? Yes No No
	Total Cover:				Remarks:
% Bare Ground in Herb Stratum 2	0 % Cover	of Biotic C	Crust		

Depth	Matrix	·	Re	dox Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure		Remar	ks
0-18	2.5Y3/2	100	·		7		S				
***************************************							***************************************				
			······								
		*****************************				***************************************					
						***************************************			ļ		
						***************************************					
Type: C=Co	ncentration, D=Deple	ation RM-P	aduced Matrix	2l contic	on: PL=Poi	o Linina	DC-Dag	Channe	-l M-MA-∔	eiv	
	ndicators: (Applical					e Limig,					ric Soils³:
] Histosol			Sandy Red		,				ck (A9) (L	•	
	pipedon (A2)		☐ Stripped N						ck (A10) (	,	
☐ Black Hi			☐ Loamy Mu	icky Miner	al (F1)				l Vertic (F	•	
	n Sulfide (A4)		Loamy Gl						ent Mater		
	Layers (A5) ( <b>LRR C</b> ) ck (A9) ( <b>LRR D</b> )	)	Depleted					Other (E	xplain in F	Remarks)	
	Below Dark Surface (	(Δ11)	☐ Redox Da								
	k Surface (A12)	(/ ( / )	Redox De								
	cky Mineral (S1)		☐ Vernal Poo		()		³Indi	cators of	f hydroph	ytic vegeta	tion and
	eyed Matrix (S4)									must be pr	
lestrictive L	ayer (if present):										
Type:											
							1				
Depth (incl	nes):						Hydri	c Soil P	resent?	Yes 🗌	No ⊠
	nes):					terina dana wasaanna na mara wasaan	Hydri	c Soil P	resent?	Yes 🗌	No 🗵
Depth (incl	nes):					***************************************	Hydri	c Soil P	resent?	Yes 🗌	No 🛚
Depth (incl	nes):					MARKET THE TOTAL PROPERTY OF THE PARTY OF TH	Hydri	c Soil P	resent?	Yes 🗌	No ⊠
Depth (incl emarks:		,				hin des sessimones varea	Hydri	c Soil P	resent?	Yes 🗌	No ⊠
Depth (inclemarks:	ş <b>Y</b>		·				Hydri	c Soil P	resent?	Yes 🗌	No ⊠
Depth (inclemarks:  'DROLOG'  Tetland Hydrogon	SY 'ology Indicators:										No ⊠
Depth (inclinemarks:  'DROLOG'  /etland Hydirimary Indica	FY ology Indicators: tors (any one indicato	or is sufficie	nt)					Second	ary Indica		nore required)
Depth (inclemarks:  */DROLOG*/etland Hydromary Indication of Surface W	FY rology Indicators: tors (any one indicate fater (A1)	or is sufficie	☐ Salt Crus	•				Second Wat	ary Indica ter Marks	ators (2 or n	nore required)
Depth (inclemarks:  */DROLOG*/etland Hydinary Indication Surface Williams High Water	FY rology Indicators: stors (any one indicate ater (A1) r Table (A2)	or is sufficie	☐ Salt Crus	ıst (B12)				Second ☐ Wat	ary Indica ter Marks liment De	ators (2 or n	nore required) rine) (Riverine)
Depth (inclemarks:  **DROLOG**  /etland Hydinary Indication      Surface Walled High Water   Saturation	Tology Indicators:  tors (any one indicatorate (A1)  r Table (A2) (A3)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	ist (B12) vertebrate				Second  Wat  Sed  Driff	ary Indica ter Marks liment De t Deposits inage Pat	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10)	nore required) rine) (Riverine) erine)
Depth (inclemarks:  **DROLOG**  */etland Hydromary Indication**    Surface Wate     High Wate     Saturation     Water Marketer	ology Indicators: tors (any one indicate ater (A1) r Table (A2) (A3) s (B1) (Nonriverine)	)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	ist (B12) vertebrate i Sulfide O	dor (C1)			Second  Wat  Sed  Drift  Drai  Dry-	ary Indica ter Marks liment De t Deposits inage Pat -Season V	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table	nore required) rine) (Riverine) erine)
Depth (inclemarks:  'DROLOG'  /etland Hydromary Indication      Surface W   High Wate     Saturation     Water Mark     Sediment	ology Indicators: tors (any one indicate ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine)	) verine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized	ist (B12) vertebrate Sulfide O Rhizosphe	dor (C1) res along l		ots (C3)	Second  Wat  Sed  Driff  Drai  Dry-	ary Indica ter Marks liment De t Deposits inage Pat Season V Muck Su	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table	nore required) rine) (Riverine) erine)
Depth (inclements:  DROLOG  Setland Hydromary Indicate  Surface W  High Wate  Saturation  Water Mark  Sediment I  Drift Depos	ology Indicators: tors (any one indicate ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine)	) verine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along l ed Iron (C4	)	ots (C3)	Second  Wat Sed Driff Drai Dry- Thin Cray	ary Indica ter Marks timent De t Deposits inage Pat Season V Muck Sur	ators (2 or n (B1) ( <b>Rive</b> posits (B2) (B3) ( <b>Rive</b> terns (B10) Water Table rface (C7) ows (C8)	nore required) rine) (Riverine) erine)
Depth (inclements:  DROLOG  Vetland Hyding  Surface W High Wate Saturation Water Mark Water Mark Sediment I Drift Depose Surface So	ology Indicators:  tors (any one indicate fater (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6)	) verine) e)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) tres along led Iron (C4 on in Plow	)	ots (C3)	Second  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indica ter Marks liment De t Deposits inage Pat Season V Muck Sul yfish Burn uration Vis	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae	nore required) rine) (Riverine) erine)
Depth (inclemarks:  **DROLOG**  **Jetiand Hydromary Indicase**    High Wate   Saturation   Water Mark   Sediment   Drift Depose   Surface Scenario   Surface Scenario   Surface Scenario   Inundation	orlogy Indicators:  ators (any one indicate ater (A1) r Table (A2) (A3) as (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Nonriverine) Uracks (B6) Visible on Aerial Ima	) verine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) tres along led Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Dry- Thin  Cray Satt	ary Indica ter Marks timent De t Deposits inage Pat Season V Muck Su yfish Burn uration Vis Ilow Aquit	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3)	nore required) rine) (Riverine) erine)
Depth (inclements:  DROLOG  Vetland Hydromary Indication of the content of the co	cology Indicators: stors (any one indicate stater (A1) r Table (A2) (A3) cs (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) Visible on Aerial Ima	) verine) e)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) tres along led Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Dry- Thin  Cray Satt	ary Indica ter Marks liment De t Deposits inage Pat Season V Muck Sul yfish Burn uration Vis	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3)	nore required) rine) (Riverine) erine)
Depth (inclements:  /DROLOG /etland Hyding imary Indicate     Surface Water Mark     Water Mark     Sediment     Drift Depose     Surface Scale     Inundation     Water-Stale	cology Indicators: tors (any one indicatorate (A1) r Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Nonriverine) oil Cracks (B6) Visible on Aerial Imaned Leaves (B9) tions:	) verine) e) ngery (B7)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) tres along led Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Dry- Thin  Cray Satt	ary Indica ter Marks timent De t Deposits inage Pat Season V Muck Su yfish Burn uration Vis Ilow Aquit	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3)	nore required) rine) (Riverine) erine)
Depth (inclements:  POROLOGY  Portland Hydromary Indication of the control of the	rology Indicators: tors (any one indicators) tater (A1) r Table (A2) (A3) ts (B1) (Nonriverine) Deposits (B2) (Nonriverine) tits (B3) (Nonriverine) oil Cracks (B6) Visible on Aerial Imaned Leaves (B9) tions: Present? Yes	) verine) e) agery (B7) □ No ⊠	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent in ☐ Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) tres along led Iron (C4 on in Plow	)	ots (C3)	Second  Wat  Sed  Drift  Drai  Dry- Thin  Cray Satt	ary Indica ter Marks timent De t Deposits inage Pat Season V Muck Su yfish Burn uration Vis Ilow Aquit	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3)	nore required) rine) (Riverine) erine)
Depth (incleaded partial parti	rology Indicators:  tors (any one indicators)  tater (A1)  r Table (A2)  (A3)  ts (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  Olitic (B3) (Nonriverine)  Visible on Aerial Imaned Leaves (B9)  tions:  Present? Yes  resent? Yes  resent? Yes	) verine) e) ngery (B7) □ No ⊠ I	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ist (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) tres along led Iron (C4 on in Plow	) ed Soils (	ots (C3)	Second  Wat Sed Drift Drai Dry- Thin Cray Satt Shat	ary Indica ter Marks ilment De t Deposits inage Pat Season V Muck Sul yfish Burn uration Vis Ilow Aquit	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C9
Depth (inclements:  PROLOGIA Vetland Hydromary Indication of Saturation of Saturation of Surface Scale Inundation of Water-Stale of Observalurface Water Table Produced Scapilication Presidudes capilicater Table Produced Scapilicater Scale of Observalurface Water Stale of Observalurface Water Table Produced Scapilicater Table Produced Sc	rology Indicators:  tors (any one indicators)  tater (A1)  r Table (A2)  (A3)  ts (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  Olitic (B3) (Nonriverine)  Visible on Aerial Imaned Leaves (B9)  tions:  Present? Yes  resent? Yes  resent? Yes	) verine) e) ngery (B7) No 🖾 No 🐼	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent in Other (Exp	ist (B12) vertebrater i Sulfide O Rhizosphe of Reduce on Reducti blain in Rei	dor (C1) eres along I ed Iron (C4 on in Plow marks)	) ed Soils ( Wet	ots (C3) C6)	Second  Wat Sed Driff Drai Dry- Thin Cray Satu Sha	ary Indica ter Marks ilment De t Deposits inage Pat Season V Muck Sul yfish Burn uration Vis Ilow Aquit C-Neutral	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C9
Depth (inclements:  PROLOGIA Vetland Hydromary Indication of Saturation of Saturation of Surface Scale Inundation of Water-Stale of Observalurface Water Table Produced Scapilication Presidudes capilicater Table Produced Scapilicater Scale of Observalurface Water Stale of Observalurface Water Table Produced Scapilicater Table Produced Sc	rology Indicators:  tors (any one indicators tater (A1) r Table (A2) (A3) as (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) Visible on Aerial Imaned Leaves (B9)  ttions: Present? Yes resent? Yes sent? Yes ary fringe)	) verine) e) ngery (B7) No 🖾 No 🐼	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent in Other (Exp	ist (B12) vertebrater i Sulfide O Rhizosphe of Reduce on Reducti blain in Rei	dor (C1) eres along I ed Iron (C4 on in Plow marks)	) ed Soils ( Wet	ots (C3) C6)	Second  Wat Sed Driff Drai Dry- Thin Cray Satu Sha	ary Indica ter Marks ilment De t Deposits inage Pat Season V Muck Sul yfish Burn uration Vis Ilow Aquit C-Neutral	ators (2 or n (B1) (Rive posits (B2) (B3) (Rive terns (B10) Vater Table rface (C7) ows (C8) sible on Ae ard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C9

Project/Site: Hermiston LWI City/County: H	ermiston Sampling Date	e: 7/31/	12	
Applicant/Owner: State: OR Samp	ling Point: 28			
Investigator(s): MRS Section, Towns	hip, Range: T4N, R28E,	Sec. 4		
Landform (hillslope, terrace, etc.): Terrace Lo	ocal relief (concave, conv	/ex, no	ne): None Slope	· (%):
	g: -119.3140 Datu			
Soil Map Unit Name: Xerofluvents NWI class	ification:			
Are climatic / hydrologic conditions on the site		ear? V	'es MNo M (If i	no evolain in Remarks \
Are Vegetation □, Soil □, or Hydrology □ s				nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ n	•			· · · · · · · · · · · · · · · · · · ·
	• •	-	,	any answers in Remarks.) ocations, transects, important features, etc.
		, 54,,	ipinig ponit i	ocations, transcots, important reatures, etc.
1	es 🛛 No 🗌		is the Sampled	i Area
!	s 🛭 No 🗍		within a Wetlar	nd? Yes⊠ No 🔲
Wetland Hydrology Present? Ye Remarks:	s 🛛 No 🗌			
Nemans.				
VEGETATION				
Tree Stratum (Plot size: 30)	Absolute <u>% Cover</u> S		inant Indicator	Dominance Test worksheet:
1.	<u> </u>	Decies T	: Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.		-		
3.		-		Total Number of Dominant Species Across All Strata: 1 (B)
4.				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:			Prevalence Index worksheet:
1,		1		Total % Cover of: Multiply by:
2.		-		OBL species x1 =
3.		<del> </del>		FACW speciesx 2 =
4.		<del> </del>		FAC species x 3 =
5.				FACU species x 4 =
· ·		<u> </u>		UPL species x 5 =
Herb Stratum (Plot size: 5')	Total Cover:			Column Totals: (A)
1.Phalaris arundinacea	95	х	FACW	Prevalence Index = B/A =
2.Xanthium strumarium	5		FAC	Hydrophytic Vegetation Indicators:
3.				Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations <sup>1</sup> (Provide supporting
6.				data in Remarks or on a separate sheet)
7.				Problematic Hydrophytic Vegetation¹ (Explain)
8.				¹Indicators of hydric soil and wetland hydrology must
	Total Cover: 100			be present.
Woody Vine Stratum (Plot size: )	Total Cover. 100			
1.				Hydrophytic Vegetation
2.				Present? Yes No No
	Total Cover:			Remarks:
% Bare Ground in Herb Stratum 0	% Cover of Biotic	Crust		

S	C	כ	II	_
Γ	P	r	o	ř

O t:		~~
Samnii	ng Point:	28

Depth	iption: (Describe Matrix	to the dep		dox Featu		tor or con	itirm the	absence	or indicate	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Тур	e <sup>1</sup> Loc		exture		Remark	s
0-3	5Y4/2	100					S				
3-16	2.5Y3/2	95	10YR3/4	5	С	М	S				
									ļ		
1	= = .			a .							
Hydric Soil In	centration, D=Depl dicators: (Application	etion, RM=	Reduced Matrix.	Locati	on: PL≕	Pore Linin				<u>ix.</u> matic Hydr	i- C-11. 3
☐ Histosol (		acie to an			olea.)					· ·	ic Soils";
	pedon (A2)		Sandy Rec     Stripped N     Stripped N						ick (A9) (L	•	
☐ Black His	. , ,		☐ Loamy Mu						ck (A10) ( <b>I</b> d Vertic (F	•	
	Sulfide (A4)		Loamy Glo						ent Materi		
	_ayers (A5) (LRR C	:)	Depleted I						xplain in F		
	k (A9) (LRR D)	,	☐ Redox Da				<u>.                                    </u>	J Olifici (2	.xpiaii iii i	(Giriai KS)	
	Below Dark Surface	(A11)	☐ Depleted I								
☐ Thick Dark		. ,	☐ Redox De								
	cky Mineral (S1)		☐ Vernal Poo	ls (F9)	•		³lı	ndicators o	of hydrophy	∕tic vegetati	on and
	yed Matrix (S4)									nust be pre	
	yer (if present):								······································		
Type:											
Depth (inch	es):						Ну	dric Soil I	resent?	Yes 🛛	No □
IYDROLOG	<b>V</b>			<u> </u>							·
·····				····							
	ology Indicators:							_			ore required)
	ors (any one indica	tor is suffic				····				(B1) (Riveri	•
Surface Wa	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		☐ Salt Crus	` '						osits (B2) (	
☐ High Water			☐ Biotic Cru					☐ Drif	t Deposits	(B3) (River	ine)
Saturation (	,		☐ Aquatic In	vertebrate	es (B13)			Dra	inage Patt	erns (B10)	
	s (B1) (Nonriverine		Hydrogen	Suifide C	dor (C1	)		☐ Dry	-Season V	Vater Table	(C2)
	eposits (B2) (Nonr		Oxidized	Rhizosphe	eres alor	ng Living F	Roots (C3	) 🔲 Thin	Muck Sur	face (C7)	
	ts (B3) ( <b>Nonrive</b> rir	ie)	☐ Presence	of Reduc	ed Iron (	C4)		☐ Cra	yfish Burro	ws (C8)	
Surface Soi	. ,		☐ Recent Iro	on Reduct	ion in Pl	owed Soils	s (C6)				al Imagery (C9)
☐ Inundation \	√isìble on Aerial Im	agery (B7)	Other (Exp						ıllow Aquita		30,7 (00)
☐ Water-Stain	ed Leaves (B9)				•				C-Neutral T		
ield Observat						T				` -/	
Surface Water F	Present? Yes	s □ No 🏻	Depth (inches):								
Vater Table Pre	esent? Yes	s □ No 🗵	Depth (inches):								
Saturation Presi includes capilla	ent? Yes		Depth (inches):			w	etland H	ydrology	Present?	Yes ⊠ 1	<b>√</b> 0 □
Describe Record	ded Data (stream g	auge, mon	itoring well, aerial	photos, p	revious	inspection	s), if avai	lable:		***************************************	
				·		-	*				
Remarks:											
At river's edge -	within OHW										

Project/Site: Hermiston LWI City/County: Hermiston	on Sampling Date	e: 7/31/1	2						
Applicant/Owner: State: OR Sampling Point: 29									
Investigator(s): MRS Section, Township, Ra	nge: T4N, R28E,	Sec. 4							
Landform (hillslope, terrace, etc.): Terrace Local rel	ief (concave, con	vex, non	e): None Slope	(%):0-3					
Subregion (LRR):D Lat: 45.8600 Long: -119	0.3140 Datu	m:							
Soil Map Unit Name: xerofluvents NWI classification	1:								
Are climatic / hydrologic conditions on the site typica		ear? Ye	s ⊠ No □ (if i	no. explain in Remarks.)					
Are Vegetation □, Soil □, or Hydrology □ significa	_			nstances" present? Yes 🔀	No 🗀				
Are Vegetation □, Soil □, or Hydrology □ naturall	-			any answers in Remarks.)	Jones.				
SUMMARY OF FINDINGS – Attach site		·	·		important features, etc.				
Hydrophytic Vegetation Present? Yes ⊠ I	Vo П		(	1 6					
Hydric Soil Present? Yes ☐ I			ls the Sampled within a Wetlar		. r⊠l				
Wetland Hydrology Present? Yes ☐ 1	Vo ⊠		witiiii a vvetiai	ing 169 110	<u> </u>				
Remarks:									
VEGETATION									
Tree Stratum (Plot size: 30)	Absolute % Cover 5		nant Indicator	Dominance Test works					
Tree Stratum (Plot size: 30)	78 Cover S	<u>phenies:</u>		Number of Dominant Spe That Are OBL, FACW, or					
2.									
3.				Total Number of Dominar Species Across All Strata					
4,									
				Percent of Dominant Spe That Are OBL, FACW, or					
	l Cover:			Prevalence Index works	sheet:				
Sapling/Shrub Stratum (Plot size: 5')			T 540	Total % Cover of:	Multiply by:				
1.Rosa gymnocarpa	5	×	FAC	1	x1=				
2. 3.				FACW species	x 2 =				
4.				FAC species	x 3 =				
5.				1	x 4 =				
	, , , , , , , <u>, , , , , , , , , , , , </u>				x 5 =				
Tota	l Cover: <u>5</u>			Column Totals:	(A)				
1.Phalaris arundinacea	20	Х	FACW	Prevalence Index =	= B/A =				
2.Xanthium strumarium	5		FAC	Hydrophytic Vegetation	Indicators:				
3.Lolium perenne	30	×	FAC	☐ ☐ Dominance Test is					
4.Bromus tectorum	25	x	NOL	Prevalence Index					
5.				data in Remarks	aptations <sup>1</sup> (Provide supporting or on a separate sheet)				
6.					rophytic Vegetation¹ (Explain)				
7.									
8.				<sup>1</sup> Indicators of hydric soil a be present.	and wetland hydrology must				
Tota	Cover: 80			,					
Woody Vine Stratum (Plot size: )				Hydrophytic					
1.				Vegetation Present? Yes	⊠ No □				
2.	d Cover								
	I Cover:	~		Remarks:					
% Rare Ground in Herh Stratum 20	% Cover of Biot	tic Crust		1	•				

Depth inches) Co	Matrix olor (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Tex	<u>cture</u>	Remarks
	2.5Y3/2	100					S		
0-10	010/2	-100							
					,				
									,
				I					
ype: C=Concent						re Lining,			
dric Soil Indicat	tors: (Applica	ble to all Li	RRs, unless oth	erwise not	ted.)		Ind	licators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Sandy Red	, ,				1 cm Mu	ck (A9) (LRR C)
Histic Epipedo			☐ Stripped N						ck (A10) (LRR B)
Black Histic (A			Loamy Mu						d Vertic (F18)
Hydrogen Sulf			Loamy Gl	•	(F2)				ent Material (TF2)
Stratified Layer		)	Depleted I					Other (E	xplain in Remarks)
1 cm Muck (A9		/A 4 4 \	☐ Redox Da						
Depleted Below Thick Dark Surf		(A11)	Depleted !						
Thick Dark Surf Sandy Mucky N			☐ Redox De ☐ Vernal Poo		M8)		31	م مسلمال	f burdenik star og statter
Sandy Gleyed N	. ,		veinal Foo	ns (F8)					f hydrophytic vegetation and hydrology must be present.
					<del></del>			welland n	rydrology must be present.
strictive Layer (	(if present):								
- '	(if present):								
Type: Depth (inches):	(if present):						Hyd	ric Soil P	'resent? Yes □ No ⊠
Type: Depth (inches):	(if present):						Hyd	ric Soil P	Present? Yes □ No ⊠
• •	(if present):			THE THE RESIDENCE OF THE PARTY			Hyd	ric Soil P	Present? Yes □ No 🗵
Type: Depth (inches):	(if present):		**************************************				Hyd	ric Soil P	Present? Yes ☐ No ⊠
Type: Depth (inches):	(if present):						Hyd	ric Soil P	Present? Yes □ No ☑
Type: Depth (inches): marks:	(if present):						Hyd	ric Soil P	Present? Yes □ No ⊠
Type: Depth (inches): marks:  DROLOGY							Hyd		
Type: Depth (inches): marks:  DROLOGY	y Indicators:	or is sufficie	ont)				Hyd	Second	ary Indicators (2 or more required)
Type: Depth (inches): marks:  DROLOGY tland Hydrology mary Indicators (a	y Indicators: (any one indicat	tor is sufficie		4 (D44)			Hyd	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (inches): marks:  DROLOGY tland Hydrology mary Indicators (a	y Indicators: any one indical	tor is sufficie	☐ Salt Crus	•			Hyd	Second  Wat	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (inches): marks:  DROLOGY tland Hydrology mary Indicators (a Surface Water (a High Water Table	y Indicators: any one indical	tor is sufficie	☐ Salt Crus ☐ Biotic Cru	ıst (B12)			Hyd	Second  Wat Sed	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Type: Depth (inches): marks:  DROLOGY tland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3)	<b>y Indicators:</b> (any one indicat (A1) (le (A2)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	ist (B12) vertebrates	•		Hyd	Second  Wat  Sec	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
Type: Depth (inches): marks:  DROLOGY stland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1)	y Indicators: any one indicat (A1) de (A2)	)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	st (B12) vertebrates Sulfide Oc	for (C1)			Second  Wat  Sed  Drift  Dra.  Dry-	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Type: Depth (inches): marks:  DROLOGY  Interpolation (A)  Surface Water (A) High Water Table Saturation (A3) Water Marks (B1) Sediment Depose	y Indicators: any one indicat (A1) de (A2) f) (Nonriverine sits (B2) (Nonri	·) iverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized	ist (B12) vertebrates Sulfide Oo Rhizosphei	for (C1) res along	-		Second  Wat Sed Drift Dra. Dry.	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Type: Depth (inches): marks:  DROLOGY etland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B	y Indicators: any one indicat (A1) de (A2) f) (Nonriverine sits (B2) (Nonri 33) (Nonriverin	·) iverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	est (B12) vertebrates Sulfide Oc Rhizospher of Reduce	lor (C1) res along d Iron (C4	)	ots (C3)	Second Wat Sed Driff Dra. Dry. Thin	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
Type: Depth (inches): marks:  DROLOGY  etland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Surface Soil Cra	y Indicators: any one indicat (A1) sle (A2) (Nonriverine sits (B2) (Nonri 33) (Nonriverin	) iverine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	est (B12) vertebrates a Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along d fron (C4 on in Plow	)	ots (C3)	Second  Wat Sec Drift Dra. Dry. Thin Cray	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY  Mand Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Surface Soil Cra Inundation Visibl	y Indicators: (any one indicat (A1) (Ie (A2) (Nonriverine (Sits (B2) (Nonri (B3) (Nonriverine (B6) (B6)	) iverine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	est (B12) vertebrates a Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along d fron (C4 on in Plow	)	ots (C3)	Second Wat Sec Drift Dra. Dry. Thin Cra: Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY  Itland Hydrology mary Indicators (included the continuation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Surface Soil Cra Inundation Visible Water-Stained L	y Indicators: (any one indicators) (A1) (Nonriverine sits (B2) (Nonriverine acks (B6) (le on Aerial Imaleaves (B9)	) iverine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	est (B12) vertebrates a Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along d fron (C4 on in Plow	)	ots (C3)	Second Wat Sec Drift Dra. Dry. Thin Cra: Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY  Interpolation (A)  Mater Marks (B1  Sediment Deposits (B)  Surface Soil Cra  Inundation Visible  Water-Stained L  Id Observations	y Indicators: (any one indicators) (A1) (I) (Nonriverine sits (B2) (Nonriverine acks (B6) (I) (I) (B6) (I) (I) (B6) (I)	) iverine) e) agery (B7)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ist (B12) vertebrates i Sulfide Oc Rhizosphei of Reduce on Reductio	for (C1) res along d fron (C4 on in Plow	)	ots (C3)	Second Wat Sec Drift Dra. Dry. Thin Cra: Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY  Itland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Surface Soil Cra Inundation Visibl Water-Stained L Id Observations	y Indicators: (any one indicators) (A1) (I) (Nonriverine sits (B2) (Nonriverine acks (B6) (I) (I) (B6) (I) (I) (B6) (I)	) iverine) e) agery (B7)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ist (B12) vertebrates i Sulfide Oc Rhizosphei of Reduce on Reductio	for (C1) res along d fron (C4 on in Plow	)	ots (C3)	Second Wat Sec Drift Dra. Dry. Thin Cra: Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY etland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Surface Soil Cra Inundation Visibl Water-Stained L Id Observations face Water Prese	y Indicators: [any one indicate [A1] [I) (Nonriverine [Sits (B2) (Nonri [B3) (Nonriverine [B6) [B6] [B6] [B6] [B6] [B6] [B6] [B6] [B6]	iverine) iverine) ie) agery (B7)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ist (B12) vertebrates i Sulfide Oc Rhizosphei of Reduce on Reductio	for (C1) res along d fron (C4 on in Plow	)	ots (C3)	Second Wat Sec Drift Dra. Dry. Thin Cra: Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY  etland Hydrology mary Indicators (included included in	y Indicators: (any one indicators) (A1) (I) (Nonriverine ists (B2) (Nonriverine ists (B6)) (I) (Nonriverine ists (B6)) (I) (Nonriverine ists (B6)) (I)	iverine) iverine) ie) agery (B7) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent Iru ☐ Other (Exp	ist (B12) vertebrates i Sulfide Oc Rhizosphei of Reduce on Reductio	for (C1) res along d fron (C4 on in Plow	) ed Soils (i	ots (C3)	Second  Wat Second Drift Dra. Dry. Thin Cra: Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inches): marks:  DROLOGY  tland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Surface Soil Cra Inundation Visibl Water-Stained L d Observations face Water Present ter Table Present uration Present?	y Indicators: any one indicat (A1) I) (Nonriverine sits (B2) (Nonri 33) (Nonriverin acks (B6) Ile on Aerial Ima eaves (B9) s: ent? Yes t? Yes inge)	iverine) iverine) agery (B7)  No 🖾	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Plow narks)	ed Solls (	ots (C3)	Second  Wat Sed Drift Dra. Thin Crat Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Illow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): marks:  DROLOGY  Interpolation (A)  Mater Marks (B)  Sediment Deposits (B)  Surface Soil Cra Inundation Visible Water-Stained L  Id Observations  face Water Present uration Present? Indes capillary fri	y Indicators: any one indicat (A1) I) (Nonriverine sits (B2) (Nonri 33) (Nonriverin acks (B6) Ile on Aerial Ima eaves (B9) s: ent? Yes t? Yes inge)	iverine) iverine) agery (B7)  No 🖾	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Plow narks)	ed Solls (	ots (C3)	Second  Wat Sed Drift Dra. Thin Crat Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Illow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): marks:  DROLOGY atland Hydrology mary Indicators (a Surface Water (a High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B Surface Soil Cra Inundation Visible Water-Stained L Id Observations face Water Present uration Present? Sudes capillary fri scribe Recorded I	y Indicators: any one indicat (A1) I) (Nonriverine sits (B2) (Nonri 33) (Nonriverin acks (B6) Ile on Aerial Ima eaves (B9) s: ent? Yes t? Yes inge)	iverine) iverine) agery (B7)  No 🖾	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Plow narks)	ed Solls (	ots (C3)	Second  Wat Sed Drift Dra. Thin Crat Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Illow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inches): marks:  DROLOGY  Interpretation (A3) Mater Marks (B1) Sediment Deposits (B) Surface Soil Cra Inundation Visible Water-Stained L Id Observations face Water Present uration Present uration Present?	y Indicators: any one indicat (A1) I) (Nonriverine sits (B2) (Nonri 33) (Nonriverin acks (B6) Ile on Aerial Ima eaves (B9) s: ent? Yes t? Yes inge)	iverine) iverine) agery (B7)  No 🖾	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Plow narks)	ed Solls (	ots (C3)	Second  Wat Sed Drift Dra. Thin Crat Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Illow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date	: 7/31/	/12	
Applicant/Owner: State: OR Sampling Point: 30				
Investigator(s): MRS Section, Township, Range: Te	IN, R28E,	Sec. 4	1	
Landform (hillslope, terrace, etc.): Terrace Local relief (cond				e (%):
Subregion (LRR):D Lat: 45.8600 Long: -119.3140	Datun		,	. ( )
Soil Map Unit Name: Quincy Loamy Fine Sand NWI classifi				
Are climatic / hydrologic conditions on the site typical for this		ar2 V	oc ⊠ No □ /If	no evoluin in Remarka
Are Vegetation _, Soil _, or Hydrology _ significantly dis				
				nstances" present? Yes ⊠ No □
Are Vegetation , Soil , or Hydrology naturally proble				any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	snowing	San	iping pont i	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes ☒ No ☐			Is the Sampled	d Area
Hydric Soil Present? Yes ☐ No ☒			within a Wetla	nd? Yes □ No 🏻
Wetiand Hydrology Present? Yes ☐ No ☒ Remarks:				
Tremarks.				
VEGETATION				
Tree Stratum (Plot size: 30)  %	Absolute Cover St		inant Indicator ? Status	Dominance Test worksheet:  Number of Dominant Species
1.Acer glabrum	10	×	FAC	That Are OBL, FACW, or FAC: 2 (A)
2.		-		Total Number of Dominant
3.	<del> </del>			Species Across All Strata: 2 (B)
4.		1		Percent of Dominant Species
	<del></del>			That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover:	<u>10</u>			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')  1.Eleagnus angustifolia	80	Т.,	FAC	Total % Cover of: Multiply by:
2.	80	×	MAC	OBL species x 1 =
3.				FACW speciesx 2 =
4.				FAC species x 3 =
5,				FACU species x 4 =
<u> </u>		L		UPL speciesx 5 =
Total Cover:	80			Column Totals: (A)
Herb Stratum (Plot size: 5')				(B)
1.				Prevalence Index = B/A =
2.				Hydrophytic Vegetation Indicators:
3.				Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
<del>-</del> 1.10				be present.
Total Cover: Woody Vine Stratum (Plot size: 5')				
1. Vitus riparia	10	х	FAC	Hydrophytic Vegetation
2.				Present? Yes No No
Total Cover:	10			Remarks:
% Bare Ground in Herb Stratum50	er of Biotic	Crust		

c	$\sim$	1	Ĭ	
	u	1		

Sampling Point: 30

1	ption: (Describe	to the depti				r or confir	rm the ab	sence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Re Color (moist)	dox Featur %	res Type <sup>1</sup>	Loc²	Text	ture	Remarks	
0-14	2.5Y3/2	100		T			s			
0-14	2.010/2	100					0			
										<del></del>
							İ			
										***************************************
		.4	······································	_	<u></u>	L	I			
	centration, D≂Dep dicators: (Applic					re Lining,			nel, M=Matrix. for Problematic Hydric Soils³:	
		ane ro an -			Meu.,					
'	☐ Histosol (A1) ☐ Sandy Redox (S5) ☐ Histic Epipedon (A2) ☐ Stripped Matrix (S6)								uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )	
☐ Black Hist			Loamy M	, ,					ed Vertic (F18)	
	Sulfide (A4)			ucky iviliter leyed Matri					rent Material (TF2)	
	ayers (A5) (LRR (	C)		Matrix (F3)					Explain in Remarks)	
	(A9) (LRR D)	-,		ark Surface			Lund	O 101 /-	zapidni in remarkoj	
	elow Dark Surface	e (A11)		Dark Surfa						
	Surface (A12)	• •		pressions						
☐ Sandy Mucl			☐ Vernal Poo		, ,		<sup>3</sup> Ind	icators o	of hydrophytic vegetation and	
Sandy Gley									hydrology must be present.	
Restrictive Lay	er (if present):									
Type:							-			
Depth (inche	:s): 						Hydr	ic Soil I	Present? Yes 🗌 No 🖾	
Remarks:						***************************************				
Underlain by ba	salt rock. Extend	led out to wa	ters edge.							
		•								
HYDROLOGY	<b>1</b>									·····
Wetland Hydro	logy Indicators:	<del></del>	<del></del>					Second	dary Indicators (2 or more required	<u>4)</u>
Primary Indicate	ors (any one indica	ator is suffici	ent)						ater Marks (B1) (Riverine)	ಷ್ಟ
☐ Surface Wat			☐ Salt Crus	st (B11)		**************************************			diment Deposits (B2) (Riverine)	
☐ High Water	, ,		☐ Biotic Cr	` ,					ift Deposits (B3) (Riverine)	
☐ Saturation (A	· · ·		☐ Aquatic Ir		es (B13)				ainage Patterns (B10)	
•	(B1) (Nonriverin	1e)	☐ Hydrogei		, ,				y-Season Water Table (C2)	
	eposits (B2) (Non	•	☐ Oxidized			Livina Ro	ots (C3)		n Muck Surface (C7)	
	ts (B3) (Nonriveri	•		of Reduc	_	_	013 (05)		ayfish Burrows (C8)	
☐ Surface Soil		,,,,		ron Reduct	•	•	(C6)		turation Visible on Aerial Imagery i	(00)
	/isible on Aerial Im	nagery (B7)	Other (Ex			rea cons (	(00)			(C9)
☐ Water-Staine		ragory (b1)	□ Otrie: (Ex	piain in re	iliaino)			_	allow Aquitard (D3)	
Field Observati	, ,							∐ r∧	C-Neutral Test (D5)	
Surface Water P		oo □ No ⊠	Depth (inches)							
Water Table Pre										
			Depth (inches):					_	· · · · · · · · · · · · · · · · · · ·	
Saturation Prese (includes capillar	ry fringe)		Depth (inches):			1			Present? Yes 🗌 No 🛛	
Describe Record	led Data (stream	gauge, moni	toring well, aeria	l photos, p	revious ins	spections)	, if availal	ble:		
Remarks:										
Manara.										

Project/Site: Hermiston LWI City/Cour	nty: Hermiston Sampling	Date: 7/31	/12	
Applicant/Owner: State: OR	Sampling Point: 31			
Investigator(s): MRS Section, T	ownship, Range: T4N, R	28E, Sec. 4	4	
Landform (hillslope, terrace, etc.): Terrac				e (%):
Subregion (LRR):D Lat: 45.8600		Datum:	-//0// / / / / / / / / / / / / / / / / /	~ ( <i>/</i> 0).
Soil Map Unit Name: Winchester Sand	_	Juluini.		
Are climatic / hydrologic conditions on the		of year?	Vac 57 Na [7] //	fine available in Demantic V
Are Vegetation □, Soil □, or Hydrology				
Are Vegetation □, Soil □, or Hydrology	,			ımstances" present? Yes ⊠ No □
		·	·	n any answers in Remarks.)
	tach site map shov	ving san	npling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes 🖾 No 🗌		Is the Sample	d Area
Hydric Soil Present?	Yes ⊠ No □		within a Wetla	
Wetland Hydrology Present? Remarks:	Yes 🛛 No 🗌	T-1010/11/10/11/11/11/11/11/11/11/11/11/11		
Remarks.				
VEGETATION				
Tree Stratum (Plot size: 30)		olute Don	minant Indicator 6? Status	Dominance Test worksheet:
1.	7, 0000		<u> </u>	Number of Dominant Species   That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4.	***************************************			- ' '
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Conline/Charle Ctrature /Dist - in - mi	Total Cover:	MARQUADAD.		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size; 5')				Total % Cover of: Multiply by:
1.				OBL species x 1 =
3.				FACW species x 2 =
4,				FAC species x 3 =
5.				FACU species x 4 =
0.				UPL speciesx 5 =
Herb Stratum (Plot size: 5')	Total Cover: _			Column Totals:(A)
1.Oenanthe sarmentosa	100	X	OBL.	Prevalence Index = B/A =
2.				Hydrophytic Vegetation Indicators:
3.				□ Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting
6.				data in Remarks or on a separate sheet)
7.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8.	***************************************			Newtonian of builds and modernia at head to
L				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
	Total Cover: 100			
Woody Vine Stratum (Plot size: 5')				Hydrophytic
1.				Vegetation Present? Yes ⊠ No □
2.	Total Cover:			Fresent 165 M
				Remarks:
% Bare Ground in Herb Stratum	0 % Cover of Big	otic Crust		

(inches)	Matrix Color (moist)	%	Color (moist)	Features  W Typ	e <sup>1</sup> Loc <sup>2</sup>	Text	ture Remarks
inches)	Color (Intolst)		Color (moist)				I S
						_	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
					_		
						_	
						.1	
[vmo: C=Co	ncontration D-Dani	otion DM-D	advage Matrix	<sup>2</sup> l acation: Dir	-Doro Linina	- PC-Pac	ot Channel, M=Matrix.
	ndicators: (Applica				-rore cining		icators for Problematic Hydric Soils <sup>3</sup> :
] Histosol		ibio to dii Et	☐ Sandy Redox	•			1 cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped Mat				2 cm Muck (A10) (LRR B)
Black His			Loamy Muck	, ,			Reduced Vertic (F18)
	n Sulfide (A4)		Loamy Gleye				Red Parent Material (TF2)
	Layers (A5) (LRR C	;)	□ Depleted Ma	trix (F3)		$\boxtimes$	Other (Explain in Remarks)
	ok (A9) (L <b>RR D</b> )		Redox Dark	, ,			
	Below Dark Surface	(A11)	Depleted Dai	, .	1		
	k Surface (A12)		Redox Depre	, ,		3	
-	icky Mineral (S1) Byed Matrix (S4)		☐ Vernal Pools	(F9)			licators of hydrophytic vegetation and
	ayer (if present):					v	wetland hydrology must be present.
Type:	ayor (ii present).						
• •	2021					13	de Cell Duncento - Mar 57 - N. FT
Depth (inch	168).					Hyar	ric Soll Present? Yes 🗵 No 🗌
emarks:							
could not get	good soil sample.						
'DROLOG	SY						
etland Hydr/	ology Indicators:	*****			***************************************		Secondary Indicators (2 or more required)
rimary Indica	itors (any one indica	tor is sufficie	nt)			******	Water Marks (B1) (Riverine)
Surface W	ater (A1)		☐ Salt Crust (F	B11)			Sediment Deposits (B2) (Riverine)
	r Table (A2)		☐ Biotic Crust				☐ Drift Deposits (B3) (Riverine)
High Wate	(A3)		Aquatic Inve	rtebrates (B13)	)		☐ Drainage Patterns (B10)
] High Wate ] Saturation (	(A3) (s (B1) ( <b>Nonriverin</b> e	<b>a</b> )		rtebrates (B13) ulfide Odor (C			☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2)
] High Wate ] Saturation ( ] Water Mark	, ,	•	☐ Hydrogen S		1)	oots (C3)	☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7)
] High Wate ] Saturation ( ] Water Mark ] Sediment [	s (B1) (Nonriverine	iverine)	☐ Hydrogen S ☐ Oxidized Rh	uifide Odor (C	1) ong Living R	oots (C3)	Dry-Season Water Table (C2)
High Wate  Saturation (  Water Mark  Sediment I  Drift Depos	ks (B1) ( <b>Nonriverin</b> e Deposits (B2) ( <b>No</b> nr	iverine)	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of	ulfide Odor (C ilzospheres alc	1) ong Living Ro (C4)		☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8)
] High Wate ] Saturation ( ] Water Mark ] Sediment I ] Drift Depos ] Surface So	ks (B1) (Nonrivering Deposits (B2) (Nonr sits (B3) (Nonriverin	riverine) ne)	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of	ulfide Odor (C izospheres ald Reduced Iron Reduction in F	1) ong Living Ro (C4) Plowed Solls		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C</li> </ul>
High Wate Saturation ( Water Mark Sediment I Drift Depose Surface So	ks (B1) (Nonrivering Deposits (B2) (Nonr sits (B3) (Nonriverin oil Cracks (B6)	riverine) ne)	Hydrogen S Oxidized Rh Presence of Recent Iron	ulfide Odor (C izospheres ald Reduced Iron Reduction in F	1) ong Living Ro (C4) Plowed Solls		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C</li> <li>□ Shallow Aquitard (D3)</li> </ul>
High Wate  Saturation (  Water Mark  Sediment [  Drift Depose  Surface So  Inundation  Water-Stain	ks (B1) (Nonrivering Deposits (B2) (Nonrisits (B3) (Nonrivering oil Cracks (B6) Visible on Aerial Im ned Leaves (B9)	riverine) ne)	Hydrogen S Oxidized Rh Presence of Recent Iron	ulfide Odor (C izospheres ald Reduced Iron Reduction in F	1) ong Living Ro (C4) Plowed Solls		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C</li> </ul>
High Wate  Saturation (  Water Mark  Sediment [  Drift Depose  Surface So  Inundation  Water-Stain	ks (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering Sits (B6) (Nonrivering Sits (B6) (Nonrivering Visible on Aerial Impact Leaves (B9) Sitions:	riverine) ne) agery (B7)	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of ☐ Recent Iron ☐ Other (Expla	uifide Odor (C izospheres ald Reduced Iron Reduction in F in in Remarks)	1) ong Living Ro (C4) Plowed Solls		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C</li> <li>□ Shallow Aquitard (D3)</li> </ul>
High Wate  Saturation (  Water Mark  Sediment I  Drift Depose  Surface So  Inundation  Water-Stain  eld Observa	(S (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering Sits (B6) (Nonriveri	riverine) ne) agery (B7)	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of ☐ Recent Iron ☐ Other (Expla	uifide Odor (C izospheres ald Reduced Iron Reduction in F in in Remarks)	1) ong Living Ro (C4) Plowed Solls		<ul> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C</li> <li>□ Shallow Aquitard (D3)</li> </ul>
High Wate  Saturation (  Water Mark  Sediment [  Drift Depose  Inundation  Water-Stain  eld Observa  auface Water  ater Table Pr	(S (B1) (Nonrivering Composits (B2) (Nonrivering Composits (B3) (Nonrivering Composits (B6) (Nonrivering Composits (B6) (Nonrivering Compositions) (Nonriver	s \texts No \texts 10 \tex	Hydrogen S Oxidized Rh Presence of Recent iron Other (Expla  Depth (inches): 1*	uifide Odor (C izospheres ald Reduced Iron Reduction in F in in Remarks)	ng Living Ro (C4) Plowed Solls	(C6)	☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)
High Wate  Saturation ( Water Mark  Sediment [ Drift Depose  Inundation Water-Stain Water-Stain Water Water  Vater Table Presenciudes capilli	(s (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering Sits (B3) (Nonrivering Sits (B6) Visible on Aerial Impled Leaves (B9) Sitions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	s No C	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of ☐ Recent Iron ☐ Other (Expla  Depth (inches): 1** Depth (inches): Depth (inches):	uifide Odor (C izospheres alc Reduced Iron Reduction in F in in Remarks)	ng Living Re (C4) Plowed Soils	(C6)	☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☒ No ☐
High Wate Saturation ( Water Mark Sediment I Drift Depose Surface So Inundation Water-Stain Hold Observation Surface Water Stater Table Presentation Presented South	(S (B1) (Nonrivering Composits (B2) (Nonrivering Composits (B2) (Nonrivering Composits (B3) (Nonrivering Composits (B3) (Nonrivering Composition Compo	s No C	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of ☐ Recent Iron ☐ Other (Expla  Depth (inches): 1** Depth (inches): Depth (inches):	uifide Odor (C izospheres alc Reduced Iron Reduction in F in in Remarks)	ng Living Re (C4) Plowed Soils	(C6)	☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☒ No ☐
High Wate  Saturation (  Water Mark  Sediment I  Drift Depose  Inundation  Water-Stain  Indicated Water  Stater Table Presence of the property	(s (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering Sits (B3) (Nonrivering Sits (B6) Visible on Aerial Impred Leaves (B9) Sitions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	s No C	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of ☐ Recent Iron ☐ Other (Expla  Depth (inches): 1** Depth (inches): Depth (inches):	uifide Odor (C izospheres alc Reduced Iron Reduction in F in in Remarks)	ng Living Re (C4) Plowed Soils	(C6)	☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☒ No ☐
High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Hard Observa Auface Water ater Table Presidudes capilli	(s (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering Sits (B3) (Nonrivering Sits (B6) Visible on Aerial Impred Leaves (B9) Sitions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	s No C	☐ Hydrogen S ☐ Oxidized Rh ☐ Presence of ☐ Recent Iron ☐ Other (Expla  Depth (inches): 1** Depth (inches): Depth (inches):	uifide Odor (C izospheres alc Reduced Iron Reduction in F in in Remarks)	ng Living Re (C4) Plowed Soils	(C6)	☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☒ No ☐

Investigator(s): MRS Section, To Landform (hillslope, terrace, etc.): Terrace Subregion (LRR):D Lat: 45.8600 Soil Map Unit Name: Winchester Sand N Are climatic / hydrologic conditions on the Are Vegetation 🔲, Soil 📋, or Hydrology Are Vegetation 🔲, Soil 🔲, or Hydrology	ampling Point: 32 wnship, Range: T4N, e Local relief (concav Long: -119.3140 WI classification: e site typical for this tin significantly disturb naturally problema	R28E, Sec. 4 /e, convex, no Datum:  me of year? Y bed? Ar atic? (I	ne): None Slope res⊠ No ☐ (If re "Normal Circun f needed, explain	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No ☒		Is the Sampled within a Wetlan	
VECETATION				
Tree Stratum (Piot size: 30)  1. 2. 3.		bsolute Don	ninant Indicator	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)
4.	<u> </u>			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
Sapling/Shrub Stratum (Plot size: 5')  1.Salix exigua 2. 3. 4. 5.	Total Cover:	95 x	FACW	Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =           UPL species         x 5 =
Liver and the second se	Total Cover: 9	95		Column Totals: (A)
Herb Stratum (Plot size: 5')  1.Agropyron cristatum 2.		5 x	NOL	(B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:
3. 4. 5. 6. 7. 8.				Dominance Test is >50% Prevalence Index is =3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Piot size: 5')  1. 2.  % Bare Ground in Herb Stratum	Total Cover: 5  Total Cover:  O % Cover	of Bíotic Crus	ıt.	Hydrophytic Vegetation Present?  Yes  No  Remarks: PHAR & willow above OHW

	ription: (Describ	e to the dep	th needed to docu	ment the i	ndicator o	r confirn	the abs	ence of	indicato	rs.)	
Depth	Matrix		Red	ox Features	<u>.</u>						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Textu	re		Remar	rks
0-3	2.5Y3/2	100					S				
3-14	2.5Y3/2	100					LS				
						-					
			-								
						L					
Type: C=Co	oncentration, D=De	anletion RMs	=Reduced Matrix	21 ocation	PL≔Pore	Lining F	rC=Root (	Channel	M=Matri	•	
			LRRs, unless othe			Litting, I					iric Soils³;
_ ] Histosol			☐ Sandy Redo		•				(A9) ( <b>L</b> I		
Histic E	pipedon (A2)		Stripped M						(A10) (L	-	
	istic (A3)		☐ Loamy Mud						√ertic (F1		
	en Sulfide (A4)		Loamy Gle		F2)				it Materia	. ,	
	l Layers (A5) ( <b>LRR</b> ck (A9) ( <b>LRR D</b> )	( C)	☐ Depleted M ☐ Redox Dark	. ,	:e\		[] O	ther (Exp	olain in R	emarks)	
	Below Dark Surface	ce (A11)	☐ Depleted D	•	•						
	k Surface (A12)		Redox Dep								
-	ucky Mineral (S1)		☐ Vernal Pool	s (F9)						tic vegeta	
	eyed Matrix (S4)			******			we	tland hy	drology n	iust be pr	resent.
	ayer (if present):										
Type:											
Depth (inc							Hydric	: Soil Pr	esent?	Yes 🗌	No ⊠
Type: Depth (inc Remarks:	hes):						Hydric	Soil Pre	esent?	Yes 🗌	No ⊠
Type: Depth (inc Remarks:			reatment Plant	***************************************			Hydric	: Soil Pr	esent?	Yes 🗌	No 🗵
Type: Depth (inc Remarks:	hes):		reatment Plant				Hydric	: Soil Pre	esent?	Yes 🗌	No 🗵
Type: Depth (inc Remarks: ill area. App	hes): peared to be filled t		reatment Plant				Hydric	: Soil Pr	esent?	Yes 🗌	No ⊠
Type: Depth (inc Remarks: fill area. App	hes): peared to be filled f	for Sewage T	reatment Plant				Hydric	: Soil Pro	esent?	Yes 🗌	No ⊠
Type: Depth (inc Remarks: ill area. App  /DROLOG	hes): peared to be filled to be	for Sewage T					S	Seconda	ry Indicat	ors (2 or r	more required)
Type: Depth (inc Remarks: iill area. App  YDROLOG Vetland Hydi rimary Indica	hes):  peared to be filled f  GY  rology indicators ators (any one indi	for Sewage T					S	Seconda	ry Indicat		more required)
Type: Depth (inc Remarks: fill area. App  TDROLOG Vetland Hydi rimary Indica  Surface W	hes):  peared to be filled f  Y  rology indicators ators (any one indivator)	for Sewage T	cient) □ Salt Crust				S	Seconda Wate Sedir	ry Indicat r Marks ( nent Dep	ors (2 or r B1) ( <b>Rive</b> osits (B2)	more required) erine) (Riverine)
Type: Depth (inc Remarks: fill area. App  TDROLOG  Vetland Hyde  rimary Indicat  Surface W  High Wate	hes):  peared to be filled for the second se	for Sewage T	cient) □ Salt Crust □ Biotic Crus	st (B12)				Seconda ] Wate ] Sedir ] Drift I	ry Indicat r Marks ( nent Dep Deposits	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b>	more required) erine) (Riverine) erine)
Type: Depth (inc Remarks: fill area. App  TDROLOG Vetland Hyde rimary Indicat Surface W High Wate Saturation	hes):  peared to be filled for the second se	for Sewage T	cient) □ Salt Crust □ Biotic Crus □ Aquatic Inv	st (B12) /ertebrates (				Seconda  Wate  Sedir  Drift [	ry Indicat r Marks ( nent Dep Deposits age Patte	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> erns (B10	more required) vrine) (Riverine) erine)
Type: Depth (inc. Demarks: ill area. App  /DROLOG /etland Hydrimary Indica ] Surface W. ] High Wate ] Saturation ] Water Mark	hes):  peared to be filled to b	for Sewage T :: cator is suffic	cient)    Salt Crust   Biotic Crus   Aquatic Inv	st (B12) vertebrates ( Sulfide Odd	or (C1)			Seconda  Wate Sedir Drift [ Drain Dry-S	ry Indicat r Marks ( nent Dep Deposits age Patte leason W	ors (2 or r B1) (Rive osits (B2) (B3) (Rive erns (B10 ater Table	more required) vrine) (Riverine) erine)
Type: Depth (inc. Remarks: iill area. App  /DROLOG /etland Hydinimary Indica   Surface W   High Wate   Saturation   Water Mari   Sediment	hes):  peared to be filled for the f	for Sewage T :: cator is suffice ine)	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates ( Sulfide Odo Rhizosphere	or (C1) es along Liv	ving Root	[ [ [ [ 	Seconda  Wate Sedir Drift I Drain Dry-S	ry Indicat r Marks ( nent Dep Deposits age Patte season W fuck Surf	ors (2 or r B1) (Rive osits (B2) (B3) (Rive erns (B10) ater Table face (C7)	more required) vrine) (Riverine) erine)
Type: Depth (inc.) Remarks: ill area. App  /DROLOG /etland Hyding / Surface W. High Water Saturation Water Mark Sediment Drift Depo	hes):  peared to be filled for the f	for Sewage T :: cator is suffice ine)	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates ( Sulfide Odd Rhizosphere of Reduced	or (C1) es along Liv Iron (C4)			Seconda  Wate Sedir Drift I Drain Dry-S Thin M	ry Indicat r Marks ( nent Dep Deposits age Patte eason W Juck Surf ish Burro	ors (2 or r B1) (Rive osits (B2) (B3) (Rive erns (B10) ater Table ace (C7) ws (C8)	more required) orine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks: Fill area. App  TOROLOG  Toronto Hydinimary Indication Surface W High Water Saturation Water Mari Sediment Drift Depo Surface So	hes):  peared to be filled formulations (any one individual (A2) (A3) ks (B1) (Nonriveridual (B2) (Nosits (B3) (Nonriveridual (B3)) (Cracks (B6)	for Sewage T cator is suffic ine) enriverine)	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction	or (C1) es along Liv Iron (C4) n in Plowed		S (C3) E (6)	Seconda  Wate Sedir Drift I Drain Thin N Crayf	ry Indicat r Marks ( nent Dep Deposits age Patte leason W fuck Surf ish Burro ation Visi	ors (2 or r B1) (Rive osits (B2) (B3) (Rive orns (B10) ater Table ace (C7) ws (C8) ble on Ae	more required) vrine) (Riverine) erine)
Type: Depth (inc Remarks: fill area. App  TDROLOG  Toronto Hyde Timary Indicate Surface W High Wate Saturation Water Mark Sediment Drift Depo Surface So Inundation	hes):  peared to be filled formulations (any one individual or Table (A2) (A3) ks (B1) (Nonriveridual or Deposits (B2) (Nonriveridual or Cracks (B6) a Visible on Aerial	for Sewage T cator is suffic ine) enriverine)	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction	or (C1) es along Liv Iron (C4) n in Plowed		S (C3) [C (G) (G) (G) (G) (G) (G) (G) (G) (G) (G)	Seconda  Wate Sedir Drift I Drain Crayf Satur Shall	ry Indicat r Marks ( nent Dep Deposits age Patte eason W fuck Surf ish Burro ation Visi	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> orns (B10 ater Table ace (C7) ws (C8) ble on Ae ard (D3)	more required) orine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks: fill area. App  YDROLOG Vetland Hyde Inimary Indica Surface W High Wate Saturation Water Mari Sediment Drift Depo Surface So Inundation Water-Sta	hes):  peared to be filled for the f	for Sewage T cator is suffic ine) enriverine)	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction	or (C1) es along Liv Iron (C4) n in Plowed		S (C3) [C (G) (G) (G) (G) (G) (G) (G) (G) (G) (G)	Seconda  Wate Sedir Drift I Drain Crayf Satur Shall	ry Indicat r Marks ( nent Dep Deposits age Patte leason W fuck Surf ish Burro ation Visi	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> orns (B10 ater Table ace (C7) ws (C8) ble on Ae ard (D3)	more required) orine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks: Fill area. App  YDROLOG  YDROLO	hes):  peared to be filled for the f	for Sewage T s: cator is suffic ine) inriverine) irine)	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction	or (C1) es along Liv Iron (C4) n in Plowed		S (C3) [C (G) (G) (G) (G) (G) (G) (G) (G) (G) (G)	Seconda  Wate Sedir Drift I Drain Crayf Satur Shall	ry Indicat r Marks ( nent Dep Deposits age Patte eason W fuck Surf ish Burro ation Visi	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> orns (B10 ater Table ace (C7) ws (C8) ble on Ae ard (D3)	more required) orine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks: Fill area. App  YDROLOG  Yetland Hydromary Indicate Surface Water Maril Sediment Drift Depo Surface So Inundation Water-Stain Water-Stain Water-Stain Water-Stain Water-Stain Water-Stain	hes):  peared to be filled to b	for Sewage T  cator is suffice  ine)  initiali initial initial initial initial initial initial initial initial	cient)  Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Other (Expl	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction	or (C1) es along Liv Iron (C4) n in Plowed		S (C3) [C (G) (G) (G) (G) (G) (G) (G) (G) (G) (G)	Seconda  Wate Sedir Drift I Drain Crayf Satur Shall	ry Indicat r Marks ( nent Dep Deposits age Patte eason W fuck Surf ish Burro ation Visi	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> orns (B10 ater Table ace (C7) ws (C8) ble on Ae ard (D3)	more required) orine) (Riverine) erine) ) e (C2)
Type: Depth (inc Remarks: Fill area. App  YDROLOG  Yetland Hyde Surface W High Wate Saturation Water Mark Sediment Drift Depo Surface Se Inundation	hes):  peared to be filled to b	for Sewage T  ine) ine) inne) inne) imagery (B7)  Yes	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Other (Expl	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction	or (C1) es along Liv Iron (C4) n in Plowed	Soils (C	s (C3) [ 6) [	Geconda  Wate  Sedir  Drift I  Drain  Thin N  Crayf  Satur  Shalk	ry Indicat r Marks ( nent Dep Deposits age Patte season W fuck Surf ish Burro ation Visi bw Aquita Neutral T	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> erns (B10) dater Table ace (C7) ws (C8) ble on Ae ird (D3) est (D5)	more required) orine) (Riverine) erine) ) e (C2) erial Imagery (C
Type: Depth (inc Remarks: Fill area. App  YDROLOG  Yetland Hydro Surface W High Water Saturation Water Maril Drift Depo Surface So Inundation Water-Stai Water-Stai Water Table P aturation Pre Includes capil	hes):  peared to be filled for the search of the filled for the search of the search o	for Sewage T  cator is suffice  ine)  inriverine)  irine)  Imagery (B7)  Yes	cient)  Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Other (Expl	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction lain in Rem	or (C1) es along Liv Iron (C4) n in Plowed arks)	Soils (C	s (C3) [ [6] [	Seconda  Wate Sedir Drift I Drain Crayf Satur Shalk FAC-	ry Indicat r Marks ( nent Dep Deposits age Patte season W fuck Surf ish Burro ation Visi bw Aquita Neutral T	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> erns (B10) dater Table ace (C7) ws (C8) ble on Ae ird (D3) est (D5)	more required) orine) (Riverine) erine) ) e (C2) erial Imagery (C
Type: Depth (inc. Demarks: ill area. App  /DROLOG /etland Hydrimary Indica. Surface Water Maril Sediment Drift Depo Surface So Inundation Water-Stai eld Observatoriace Water fater Table Paturation Presidudes capil	hes):  peared to be filled for the search of the filled for the search of the search o	for Sewage T  cator is suffice  ine)  inriverine)  irine)  Imagery (B7)  Yes	cient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Other (Expl	st (B12) vertebrates of Sulfide Odd Rhizosphere of Reduced in Reduction lain in Rem	or (C1) es along Liv Iron (C4) n in Plowed arks)	Soils (C	s (C3) [ [6] [	Seconda  Wate Sedir Drift I Drain Crayf Satur Shalk FAC-	ry Indicat r Marks ( nent Dep Deposits age Patte season W fuck Surf ish Burro ation Visi bw Aquita Neutral T	ors (2 or r B1) ( <b>Rive</b> osits (B2) (B3) ( <b>Rive</b> erns (B10) dater Table ace (C7) ws (C8) ble on Ae ird (D3) est (D5)	more required) orine) (Riverine) erine) ) e (C2) erial Imagery (C

US Army Corps of Engineers

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date	: 7/31/	12	
Applicant/Owner: State: OR Sampling Point: 33				
Investigator(s): MRS Section, Township, Range: T4	N, R28E,	Sec. 1	2	
Landform (hillslope, terrace, etc.): Drain/Ditch Local relief (c	concave, c	convex	., none): Concave	e Slope (%):3-6
Subregion (LRR):D Lat: 45.8432 Long: -119.2536	Datur		,	
Soil Map Unit Name: Winchester Sand NWI classification:				
Are climatic / hydrologic conditions on the site typical for this	time of ve	ear? Y	'es⊠ No □ (If	no explain in Remarks \
Are Vegetation □, Soil □, or Hydrology □ significantly dist				nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally problet				any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s		·	•	
Hydrophytic Vegetation Present? Yes ⊠ No □				
Hydric Soil Present? Yes ⊠ No □			Is the Sample	
Wetland Hydrology Present? Yes ⊠ No □			within a Wetla	nd? Yes ⊠ No □
Remarks:		1		
VEGETATION				
Tree Stratum (Plot size: 30) %	Absolute		ninant Indicator ? Status	Dominance Test worksheet:
1.		DCO:C3	<u>. Otatos</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.		-		` '
3.		<b>-</b>		Total Number of Dominant Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
	.I	l		That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover: Sapling/Shrub Stratum (Plot size: 5')				Prevalence Index worksheet:
1,	Ţ	T		Total % Cover of: Multiply by:
2.		-		OBL species x1 =
3.		-		FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
	<u> </u>			UPL species x 5 =
Total Cover: <u>Herb Stratum</u> (Plot size: 5')	-			Column Totals: (A)
1.Veronica americana	30	х	OBL	Prevalence Index = B/A =
2.Polygonum sp.	15			Hydrophytic Vegetation Indicators:
3.Rorippa nasturtium-aquaticum	40	х	OBL.	□ Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				- Tobicination Tydrophytic Vegetation (Explain)
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover:	<u>85</u>			
Woody Vine Stratum (Plot size: 5')				Und-abote
1.				Hydrophytic Vegetation
2.				Present? Yes No
Total Cover:				Remarks:
% Bare Ground in Herb Stratum15 water %	% Cover of	f Blotic	: Crust	

] Histosol (A1)       □ Sandy Redox (S5)       □ 1         ] Histic Epipedon (A2)       □ Stripped Matrix (S6)       □ 2         ] Black Histic (A3)       □ Loamy Mucky Mineral (F1)       □ F	Channel, M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
inches) Color (moist) % Color (moist) % Type¹ Loc² Textu  0-8 2.5Y3/2 90 10YR3/4 10 C M S  Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  1 Histosol (A1) Sandy Redox (S5) 1  2 Histic Epipedon (A2) Stripped Matrix (S6) 2  1 Black Histic (A3)	Channel, M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
0-8   2.5Y3/2   90   10YR3/4   10   C   M   S    Type: C=Concentration, D=Depletion, RM=Reduced Matrix.    Type: C=Concentration, D	Channel, M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix.   2Location: PL=Pore Lining, RC=Root ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  1 Histosol (A1) Sandy Redox (S5) 1  2 Histic Epipedon (A2) Stripped Matrix (S6) 2  3 Black Histic (A3) Loamy Mucky Mineral (F1)	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indic         ] Histosol (A1)       Sandy Redox (S5)       1         ] Histic Epipedon (A2)       Stripped Matrix (S6)       2         ] Black Histic (A3)       Loamy Mucky Mineral (F1)       F	ators for Problematic Hydric Soils <sup>3</sup> : cm Muck (A9) (LRR C)
] Histosol (A1)          □ Sandy Redox (S5)          □ 1         ] Histic Epipedon (A2)          □ Stripped Matrix (S6)          □ 2         ] Black Histic (A3)          □ Loamy Mucky Mineral (F1)          □ F	cm Muck (A9) (LRR C)
Histic Epipedon (A2)       ☐ Stripped Matrix (S6)       ☐ 2         Black Histic (A3)       ☐ Loamy Mucky Mineral (F1)       ☐ F	
Black Histic (A3)	
, , , , , , , , , , , , , , , , , ,	cm Muck (A10) (LRR B)
	Reduced Vertic (F18)
	led Parent Material (TF2) other (Explain in Remarks)
1 1 cm Muck (A9) (LRR D)	mer (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	
	cators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	etland hydrology must be present.
estrictive Layer (if present):	
Type:	
Depth (inches): Hydric	Soil Present? Yes 🖾 No 🗌
emarks:	
DROLOGY	
	Secondary Indicators (2 or more required)
	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
	☐ Drift Deposits (B3) (Riverine)
	☐ Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	☐ Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Thìn Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	☐ Crayfish Burrows (C8)
Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soils (C6)	☐ Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	☐ Shallow Aquitard (D3)
Water-Stained Leaves (B9)	☐ FAC-Neutral Test (D5)
ld Observations:	
face Water Present? Yes ⊠ No ☐ Depth (inches): 1"	
ter Table Present? Yes ☐ No ☐ Depth (inches):	
	ology Present? Yes 🛭 No 🗌
cludes capillary fringe)	
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availab	۵٠

Project/Site: Hermiston LWI City/County	: Hermiston Samp	oling Date	: 7/31/	12		
Applicant/Owner: State: OR Sa	impling Point: 34					
investigator(s): MRS Section, Tov	vnship, Range: T4l	N, R28E,	12			
Landform (hilfslope, terrace, etc.): Drain/D	itch Local relief (co	oncave, c	onvex,	none): Conca	ave	Slope (%):3-6%
Subregion (LRR):D Lat: 45.8432	Long: -119.2536	Datun	n:			
Soil Map Unit Name: Winchester Sand NV	VI classification:					
Are climatic / hydrologic conditions on the	site typical for this	time of ye	ar? Y	es ⊠ No □	(lf r	no, explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology [						nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology [						any answers in Remarks.)
						ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes ⊠ No □			is the Samp		Aroa
Hydric Soil Present?	Yes 🗌 No 🛚			within a We		
Wetland Hydrology Present?	Yes ☐ No ☒			***************************************	, ciai	103 <u>103 10 M</u>
Remarks:						
VEGETATION						
Tree Stratum (Plot size: 30)		Absolute Cover S		iinant Indicat ? <u>Status</u>	tor	Dominance Test worksheet:  Number of Dominant Species
1.						That Are OBL, FACW, or FAC: 2 (A)
2.						Total Number of Dominant
3.						Species Across All Strata: <u>3</u> (B)
4.						Percent of Dominant Species That Are OBL, FACW, or FAC: 66 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:					Prevalence Index worksheet:
1.Aruncus dioica		30	Τx	FACU	_	Total % Cover of: Multiply by:
2.		30	<del>  ^</del>	1 700	-	OBL species x1=
3.					-	FACW species x 2 =
4.					-	FAC species x 3 =
5.					-	FACU species x 4 =
	l		1	I	!	UPL speciesx5 =
Herb Stratum (Plot size: 5')	Total Cover:	_				Column Totals:(A)(B)
1.Echinochloa crus-galli		10	х	FACW		Prevalence Index = B/A =
2.Amaranthus sp.	***************************************	5	x	FAC		Hydrophytic Vegetation Indicators:
3.Salsola kali		5		NOL		⊠_ Dominance Test is >50%
4.						Prevalence Index is =3.01
5.						Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
6.						Problematic Hydrophytic Vegetation¹ (Explain)
7.						- Tropicinalio Hydrophyllo Vogotalion (Explain)
8.						<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
	Total Cover:	20				
Woody Vine Stratum (Plot size: 5')						Hydrophytic
1.						Vegetation
2.	_					Present? Yes No No
	Total Cover:					Remarks:
% Bare Ground in Herb Stratum 80	% Cove	r of Biotic	: Crust			

c	$\sim$	ı	1
J	v	1	ᆫ

Sampling Point: 34

☐ Histic Epipedon (A2) ☐   ☐ Black Histic (A3) ☐   ☐ Hydrogen Sulfide (A4) ☐   ☐ Stratified Layers (A5) (LRR C) ☐   ☐ 1 cm Muck (A9) (LRR D) ☐   ☐ Depleted Below Dark Surface (A11) ☐   ☐ Thick Dark Surface (A12) ☐	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6)	e Lining, RC=Root Channel, M=Matrix.  Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Material (TF2)  Other (Explain in Remarks)   3Indicators of hydrophytic vegetation and wetland hydrology must be present.  Hydric Soil Present? Yes No
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type:  Depth (inches):	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Hestrictive Layer (if present):  Type:  Depth (inches):  Emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Hestrictive Layer (if present):  Type:  Depth (inches):  Emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type:  Depth (inches):	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Hestrictive Layer (if present):  Type:  Depth (inches):  Emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type:  Depth (inches):	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
lydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
lydric Soil Indicators: (Applicable to all LRRs,  Histosol (A1)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches):  emarks:	Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	☐ 2 cm Muck (A10) (LRR B) ☐ Reduced Vertic (F18) ☐ Red Parent Material (TF2) ☐ Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	☐ 2 cm Muck (A10) (LRR B) ☐ Reduced Vertic (F18) ☐ Red Parent Material (TF2) ☐ Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	☐ Red Parent Material (TF2) ☐ Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:	Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present.
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present.
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): emarks:	Redox Depressions (F8)	wetland hydrology must be present.
Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  estrictive Layer (if present):  Type:  Depth (inches): emarks:		wetland hydrology must be present.
Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): emarks:		wetland hydrology must be present.
estrictive Layer (if present): Type: Depth (inches): emarks:		
Type: Depth (inches): emarks:		Hydric Soil Present? Yes ☐ No ⊠
emarks:		Hydric Soil Present? Yes ☐ No ⊠
emarks:		THYURE SOIL FIESERET FES [] NO [S]
etland Hydrology Indicators:		Secondary indicators (2 or more regu
imary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
	] Salt Crust (B11)	☐ Sediment Deposits (B2) (Riverine
High Water Table (A2)		Drift Deposits (B3) (Riverine)
	Aquatic Invertebrates (B13)	☐ Drainage Patterns (B10)
	Hydrogen Sulfide Odor (C1)	☐ Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Li	
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	
Surface Soil Cracks (B6)	Recent Iron Reduction in Plower	, ,
	Other (Explain in Remarks)	☐ Shallow Aguitard (D3)
Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)
eld Observations:		
ırface Water Present? Yes ☐ No ☒ Dept	th (inches):	
ater Table Present? Yes ☐ No 🗵 Depti	h (inches):	
turation Present? Yes 🗌 No 🛛 Dept	th (inches):	Wetland Hydrology Present? Yes ☐ No ⊠
cludes capillary fringe) escribe Recorded Data (stream gauge, monitoring	well, aerial photos, previous insp	January Manager Land
		ections), if available:
	, , , , , , , , , , , , , , , , , , , ,	ections), if available:
emarks:		ections), if available:

Project/Site: Hermiston LWI City/Coun	ty: Hermiston Sam	pling Date: 7/31/	/12		
Applicant/Owner: State: OR S	Sampling Point: 35				
Investigator(s): MRS Section, To	ownship, Range: T4	N, R28E, 12			
Landform (hillslope, terrace, etc.): Ditch	Local relief (concav	e, convex, none	): Concave Slop	e (%):3-6	
Subregion (LRR):D Lat: 45.8432	Long: -119.2536	Datum:	,	- (/-/	
Soil Map Unit Name: Winchester Sand N	•				
Are climatic / hydrologic conditions on the		time of year? V	or Maio II (If	no ovaloja in Domarko V	
Are Vegetation □, Soil □, or Hydrology					1
				mstances" present? Yes ⊠ No ☐	Ţ
Are Vegetation , Soil , or Hydrology		•		any answers in Remarks.)	
SUMMARY OF FINDINGS - Att	ach site map s	nowing sam	ipling point i	locations, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present?	Yes 🗌 No 🗌		Is the Sample	d Area	
Hydric Soil Present?	Yes 🔲 No 🛄		within a Wetla		
Wetland Hydrology Present?	Yes⊠ No 🗌				
Remarks: Ditch					
VEGETATION			***************************************		
Tree Stratum (Plot size: 30)			ninant Indicator	Dominance Test worksheet:	
1.	_/6.0	Cover Species	! Status_	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2.					(*)
3.				Total Number of Dominant Species Across All Strata:	(B)
4.	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA				(D)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:	and a second and a state of the		Prevalence Index worksheet:	
1.				Total % Cover of:	Multiply by:
2.				OBL species	_ x 1 =
3.				FACW species	x 2 =
4.				FAC species	x 3 =
5.				FACU species	
					x5 =
Harb Stratum (Blataina, 51)	Total Cover:	-		Column Totals:(B)	(A)
Herb Stratum (Plot size: 5')  1.				m - 1 - 1 - m / n	
2.				Prevalence Index = B/A = Hydrophytic Vegetation Indica	
3.				Dominance Test is >50%	tors.
4.				Prevalence Index is =3.01	
5.				Morphological Adaptation	s <sup>1</sup> (Provide supporting
6.				data in Remarks or on a	separate sheet)
7.				Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
8.					
				<sup>1</sup> Indicators of hydric soil and wet be present.	land hydrology must
	Total Cover:	-			
Woody Vine Stratum (Plot size: 5')				Hydrophytic	
1.				Vegetation	No. 🗆
2.				Present? Yes	No
	Total Cover:			Remarks: n/a	
% Bare Ground in Herb Stratum 1	00 % Cov	er of Biotic Crus	st		

Depth _ (inches)	Matrix Color (moist)	%	Color (moist)	dox Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture	Remarks
				1		1			
								·····	
***************************************	-								
				2					
	centration, D=Deplet dicators: (Application)					e Lining,			el, M=Matrix. or Problematic Hydric Soils³:
Histosol (		DIE TO All LI	-		itea.)				•
	pedon (A2)		☐ Sandy Re	uux (SS) Matrix (S6)					ick (A9) (LRR C) ck (A10) (LRR B)
Black His			• • •	ucky Miner					d Vertic (F18)
	Sulfide (A4)		-	eyed Matri:					ent Material (TF2)
	ayers (A5) (LRR C)			Matrix (F3)					ixplain in Remarks)
	k (A9) (LRR D)		☐ Redox Da	irk Surface	(F6)				,
	lelow Dark Surface (	A11)	Depleted		• '				
	Surface (A12)		Redox De	,	(F8)		2		
Sandy Muc	ky Mineral (S1)		☐ Vernal Po	ols (F9)					of hydrophytic vegetation and mydrology must be present.
	and Matrix (CA)								Watalaav milist he aresent
Sandy Gley			***************************************				v	vetiano i	.yarology mast so prosent.
Sandy Gley strictive La	yed Matrix (S4) yer (if present):			······			v	venano i	yarology most so produit.
Sandy Gley estrictive La Type:	yer (if present):								
] Sandy Gley estrictive La Type: Depth (inch	yer (if present):			***************************************					Present? Yes No
Sandy Gley estrictive La Type:	yer (if present):								
] Sandy Gley estrictive La Type: Depth (inche	yer (if present):					***************************************			
Sandy Gley estrictive La Type: Depth (inche	yer (if present):								
Sandy Gley estrictive La Type: Depth (incher emarks:	yer (if present): es):								
Sandy Gley estrictive La Type: Depth (inche) emarks:	yer (if present): es): Y							ic Soil F	Present? Yes No 🗌
Sandy Gley strictive La Type: Depth (inche marks:  DROLOG	yer (if present): es):  Y  blogy Indicators:							ic Soil F	Present? Yes ☐ No ☐  lary Indicators (2 or more required)
Sandy Gley strictive La Type: Depth (inche marks:  DROLOGY etland Hydro mary Indicate	yer (if present): es):  Y  plogy Indicators: ors (any one indicato	or is sufficie		······				ic Soil F	Present? Yes No 🗌
Sandy Gley strictive La Type: Depth (inche marks:  DROLOGY etland Hydro mary Indicate	yer (if present): es):  Y  plogy Indicators: ors (any one indicato	or is sufficie	nt) □ Salt Crus	······				ic Soil F	Present? Yes ☐ No ☐  lary Indicators (2 or more required)
Sandy Gley strictive La Type: Depth (inche marks:  DROLOG' etland Hydro mary Indicate Surface Wa High Water	yer (if present): es):  Y  plogy Indicators: ors (any one indicatorser (A1)  Table (A2)	or is sufficie	☐ Salt Crus	st (B11) ust (B12)				Second Wa Sec	Present? Yes No I
Sandy Gley estrictive La Type: Depth (inche marks:  DROLOGY etland Hydro mary Indicate Surface Wa High Water Saturation (/	yer (if present): es):  Y  plogy Indicators: ors (any one indicato ater (A1)  Table (A2)		☐ Salt Crus ☐ Biotic Cr	st (B11) ust (B12) nvertebrate				Second  Wa Sec Drif Dra	Present? Yes No []  dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10)
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOGY etland Hydro mary Indicate Surface Wa High Water Saturation (// Water Marks)	yer (if present): es):  Y blogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine)		☐ Salt Crus ☐ Biotic Cr ☐ Aquatic Is ☐ Hydroge	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Hydr	Second Wa Sec Drif Dra Dry	Present? Yes No No No No No No No No No No No No No
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOG` etland Hydro imary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D	yer (if present): es):  Y blogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriv	verine)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along l	_	Hydr	Second Wa Sec Drif Dra Dry Thin	Present? Yes No   lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOG etland Hydro mary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi	yer (if present): es):  Y blogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) leposits (B2) (Nonriverine) its (B3) (Nonriverine)	verine)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along l ed Iron (C4	)	Hydr	Second Wa Sec Drif Dra Dry Thin	Present? Yes No  lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) yfish Burrows (C8)
Sandy Giey estrictive La Type: Depth (inche emarks:  DROLOG' etland Hydro mary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi	yer (if present): es):  Y blogy indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) leposits (B2) (Nonriverine) its (B3) (Nonriverine)	verine) e)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along l ed Iron (C4 ion in Plow	)	Hydr	Second Wa Sec Drif Dra Dry Thin	Present? Yes No  lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOG' etland Hydro mary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \	yer (if present): es):  Y blogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) I Cracks (B6) Visible on Aerial Image	verine) e)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along l ed Iron (C4 ion in Plow	)	Hydr	Second Wa Sec Drif Dra Dry Thin Cra Satt	Present? Yes No   Idary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) if Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOGY etland Hydro mary Indicate Surface Wa High Water Saturation (// Water Marks Sediment D Drift Deposi Surface Soi Inundation (// Water-Stain	yer (if present): es):  Y  plogy Indicators: ors (any one indicatorater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) its (B3) (Nonriverine) its (B3) (Nonriverine) its (B4) (Nonriverine) its (B5) (Nonriverine) its (B6) v/sible on Aerial Imaged Leaves (B9)	verine) e)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along l ed Iron (C4 ion in Plow	)	Hydr	Second Wa Sec Drif Dra Dry Thin Cra Satt	Present? Yes No  lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
DROLOGY  atland Hydro  Mary Indicate  Surface Wa  High Water  Saturation (/  Water Marks  Sediment D  Drift Deposi  Surface Soi  Inundation (/  Water-Stain  Id Observat	yer (if present): es):  Y blogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) reposits (B2) (Nonriverine) its (B3) (Nonriverine) I Cracks (B6) Visible on Aerial Imaged Leaves (B9) ions:	v <b>erine)</b> a) gery (B7)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence Recent Ii	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reducti ron Reducti plain in Re	dor (C1) eres along l ed Iron (C4 ion in Plow	)	Hydr	Second Wa Sec Drif Dra Dry Thin Cra Satt	Present? Yes No   Idary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) if Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Sandy Gley estrictive La Type: Depth (inche marks:  DROLOGY etland Hydro mary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain Id Observat	yer (if present): es):  Y blogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) reposits (B2) (Nonriverine) its (B3) (Nonriverine) I Cracks (B6) Visible on Aerial Imaged Leaves (B9) ions:	v <b>erine)</b> a) gery (B7)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reducti ron Reducti plain in Re	dor (C1) eres along l ed Iron (C4 ion in Plow	)	Hydr	Second Wa Sec Drif Dra Dry Thin Cra Satt	Present? Yes No   Idary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOGY etland Hydro mary Indicate Surface Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain Id Observat face Water Frace Water Frace Frable Pre-	yer (if present): es):  Y  plogy Indicators: ors (any one indicatorater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) it Cracks (B6) visible on Aerial Imaged Leaves (B9) ions: Present? Yes esent? Yes	verine) a) gery (B7)	Salt Crus Biotic Cr Aquatic Ir Hydroge Oxidized Presence Recent Ii	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reducti plain in Re	dor (C1) eres along l ed Iron (C4 ion in Plow	)	Hydr	Second Wa Sec Drif Dra Dry Thin Cra Satt	Present? Yes No   Idary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Sandy Giey estrictive La Type: Depth (inche emarks:  DROLOG' etiand Hydro imary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain id Observat rface Water F ater Table Presturation Press	yer (if present): es):  Y  plogy Indicators: ors (any one indicatorater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) its (B3) (Nonriverine) its (B6) Visible on Aerial Imagined Leaves (B9) ions: Present? Yes esent? Yes ent? Yes	verine)  gery (B7)  No  No	☐ Salt Crus ☐ Biotic Cr ☐ Aquatic Is ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Is ☐ Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reducti ron Reducti plain in Re	dor (C1) eres along l ed Iron (C4 ion in Plow	ed Solls (	Hydr	Second  Wa Sec Drif Dra Dry Thin Cra Sat Sha	Present? Yes No   Idary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) if Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Sandy Giey estrictive La Type: Depth (inche emarks:  DROLOG` etiand Hydro imary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain sid Observat rface Water F ater Table Pre turation Presicudes capilia	yer (if present): es):  Y blogy indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) leposits (B2) (Nonriverine) leposits (B3) (Nonriverine) l Cracks (B6) Visible on Aerial Imaged Leaves (B9) ions: Present? Yes esent? Yes ent? Yes ent? Yes ery fringe)	verine)  gery (B7)  No  No  No  No  No  No  No  No  No	Salt Crus Biotic Cr Aquatic Is Hydroge Oxidized Presence Recent Is Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reducti plain in Re	dor (C1) eres along I ed Iron (C4 on in Plow marks)	weti	hydr ots (C3)	Second Wa Sec Drif Dra Thin Cra Sati	Present? Yes No No Advisors (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Sandy Gley estrictive La Type: Depth (inche emarks:  DROLOG' etiand Hydro imary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain sid Observat rface Water F ater Table Pre- turation Presicudes capilia	yer (if present): es):  Y  plogy Indicators: ors (any one indicatorater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) its (B3) (Nonriverine) its (B6) Visible on Aerial Imagined Leaves (B9) ions: Present? Yes esent? Yes ent? Yes	verine)  gery (B7)  No  No  No  No  No  No  No  No  No	Salt Crus Biotic Cr Aquatic Is Hydroge Oxidized Presence Recent Is Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reducti plain in Re	dor (C1) eres along I ed Iron (C4 on in Plow marks)	weti	hydr ots (C3)	Second Wa Sec Drif Dra Thin Cra Sati	Present? Yes No No Advisors (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Sandy Giey estrictive La Type: Depth (inche emarks:  DROLOG` etiand Hydro imary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain sid Observat rface Water F ater Table Pre turation Presicudes capilia	yer (if present): es):  Y blogy indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) leposits (B2) (Nonriverine) leposits (B3) (Nonriverine) l Cracks (B6) Visible on Aerial Imaged Leaves (B9) ions: Present? Yes esent? Yes ent? Yes ent? Yes ery fringe)	verine)  gery (B7)  No  No  No  No  No  No  No  No  No	Salt Crus Biotic Cr Aquatic Is Hydroge Oxidized Presence Recent Is Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reducti plain in Re	dor (C1) eres along I ed Iron (C4 on in Plow marks)	weti	hydr ots (C3)	Second Wa Sec Drif Dra Thin Cra Sati	Present? Yes No No Advisors (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/Coun	ty: Hermiston Sami	pling Date	: 7/31/	12	
Applicant/Owner: State: OR S	Sampling Point: 36				•
Investigator(s): MRS Section, To	ownship, Range: T4	N, R28E,	12		
Landform (hillslope, terrace, etc.): Ditch				: Concave Slor	oe (%):3-6
Subregion (LRR):D Lat: 45.8432	Long: -119.2536	Datun			
Soil Map Unit Name: Winchester Sand N	•				
Are climatic / hydrologic conditions on the		time of ve	ar2 V	es Mo∏ (#	ino evaluin in Remarks )
Are Vegetation □, Soil □, or Hydrology					
Are Vegetation □, Soil □, or Hydrology					mstances" present? Yes 🖾 No 🔲
			-	·	n any answers in Remarks.) locations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No No			Is the Sample	d Area
Wetland Hydrology Present?	Yes ☐ No ☒ Yes ☐ No ☒			within a Wetla	and? Yes □ No ⊠
Remarks:	103 🗀 740 🖾			······································	
VEGETATION					
Tree Stratum (Plot size: 30)		Absolute		inant Indicator <u>Status</u>	Dominance Test worksheet:
1.		20101 01	7001031	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.					
3.					Total Number of Dominant Species Across All Strata: 3 (B)
4.					, , ,
			1		Percent of Dominant Species That Are OBL, FACW, or FAC: 66 (A/B)
0 11 /01 1 0 1 / 1 / 1 / 1	Total Cover:				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')			·		Total % Cover of: Multiply by:
1.Eleagnus angustifolia     2. Rubus discolor		60	Х	FAC	OBL species x 1 =
3.		30	X	FACU	FACW species x 2 =
4.					FAC species x 3 =
5.					FACU species x 4 =
			<u> </u>		UPL speciesx 5 =
	Total Cover:	90			Column Totals: (A)
Herb Stratum (Plot size: 5')					(B)
1.					Prevalence Index = B/A =
2.					Hydrophytic Vegetation Indicators:
3.					Dominance Test is >50%
4.					Prevalence Index is =3.01
5.					Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7.					
8.					Indicators of hydric soil and wetland hydrology must
	Total Covers				be present.
Woody Vine Stratum (Plot size: 5')	Total Cover:	*************			Destruction of the second of t
1. Clematis lingusticifolia		30	x	FAC	Hydrophytic Vegetation
2.					Present? Yes No
	Total Cover:				Remarks:
% Bare Ground in Herb Stratum 0	% Cover	of Biotic C	Crust		

	iption: (Describe	to the depth	needed to doc	ument the	indicator	or confir	m the al	osence o	f indicators.)
Depth _	Matrix		Red	dox Feature	es	<del></del>	<b>.</b>		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Tex	ture	Remarks
0-18	2.5Y3/2	100					S		
			······································			· · · · · · · · · · · · · · · · · · ·			
						······································			
						<del></del>	······································		
		<u> </u>							
¹Type: C=Cor	ıcentration, D≕Dep	olotion RM=F	Paducad Matrix	21 ocation	n: DI -Dor	e Lining	BC-B00	t Channe	ıl, M=Matrix.
	dicators: (Applic					e camig,			or Problematic Hydric Soils <sup>3</sup> ;
Histosol (			☐ Sandy Red		,				ck (A9) (LRR C)
,	pedon (A2)		☐ Stripped N						sk (A10) (LRR B)
Black His			☐ Loamy Mu					Reduced	Vertic (F18)
	Sulfide (A4)	<b>.</b>	Loamy Glo	•	(F2)				ent Material (TF2)
	_ayers (A5) (LRR ( k (A9) (LRR D)	C)	Depleted I		(EO)			Other (E:	xplain in Remarks)
	Selow Dark Surface	ρ (Δ11\	☐ Redox Da	гк Surrace ( Dark Surfac	` '				
☐ Thick Dark		o (/ (		pressions (i	٠.				
	ky Mineral (S1)		☐ Vernal Poo		,		<sup>3</sup> Inc	licators of	hydrophytic vegetation and
	yed Matrix (S4)								ydrology must be present.
Restrictive La	ver (if procent).								
	yer (n present).								
Туре:									
Type: Depth (inch							Hydi	ric Soil P	resent? Yes ☐ No ⊠
Туре:							Hydi	ric Soil P	resent? Yes ☐ No ⊠
Type: Depth (inch							Hydi	ric Soil P	resent? Yes □ No ⊠
Type: Depth (inch							Hydi	ric Soil P	resent? Yes ☐ No ⊠
Type: Depth (inch							Hydi	ric Soil P	resent? Yes ☐ No ⊠
Type: Depth (inch Remarks:	es):						Hydi	ric Soil P	resent? Yes □ No ☑
Type: Depth (incherent incherent inchere	es):						Hydi		
Type: Depth (incherent incherent inchere	es):  Y  plogy Indicators:	ator is sufficie	ent)				Hydi	Second	ary Indicators (2 or more require
Type: Depth (incher Remarks:  YDROLOG Wetland Hydro	es):  Y  plogy Indicators: ors (any one indica	ator is sufficie		t (B11)			Hydi	Second:	ary Indicators (2 or more require er Marks (B1) (Riverine)
Type: Depth (incher Remarks:  YDROLOG Wetland Hydro	Y Diogy Indicators: ors (any one indicator (A1)	ator is sufficie	☐ Salt Crus				Hydi	Second:	ary indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)
Type: Depth (Incherent States) Primary Indicate Surface Wa	Y  plogy Indicators: ors (any one indicater (A1) Table (A2)	ator is sufficie	☐ Salt Crus ☐ Biotic Cru	ıst (B12)	: (B13)		Hydi	Second:  Wat  Sed  Drift	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Type: Depth (incherent incherent inc	Y  plogy Indicators: ors (any one indicater (A1) Table (A2)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	ıst (B12)			Hydi	Second Wat Sed Drift Drai	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
Type: Depth (incherent services)  YDROLOG  Wetland Hydro  Primary Indicate  Surface Wa  High Water  Saturation (A)  Water Marks  Sediment D	es):  Y  Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonriverin	ne) riverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	ist (B12) vertebrates	for (C1)	_iving Ro		Second  Wat  Sed  Drift  Drai	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Type: Depth (incherent control of the control of th	Y Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (	ne) riverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized	ust (B12) vertebrates n Sulfide Oc	lor (C1) res along L	_		Second:  Wat Sed Drift Drai Dry-	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Type: Depth (incherent content of the content of th	y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering the posits (B2) (Nonits (B3) (Nonrivering (B3) (Nonriv	ne) riverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrates i Sulfide Oc Rhizospher i of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	)	ots (C3)	Second  Wat Sed Drift Drai Dry- Thin Cray	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Type: Depth (incherent content of the content of th	Y Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering the posits (B2) (Nonrivering the (B3) (Nonriverin	ne) riverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrates i Sulfide Oc Rhizospher i of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	)	ots (C3)	Second  Wat Sed Drift Drai Dry- Thin Cray	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8)
Type: Depth (incherent incherent inc	Y Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (	ne) riverine) ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrates i Sulfide Oc Rhizospher i of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	)	ots (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) uration Visible on Aerial Imagery
Type: Depth (incherent persons)  YDROLOG  YDROLOG  Wetland Hydro  Primary Indicate  Surface Wa  High Water  Saturation (/  Water Marks  Sediment D  Drift Deposi  Surface Soi  Inundation \  Water-Stain  Vield Observat	es):  Y  Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nongivering (B3) (Nonrivering (B3) (Nonriv	ne) riverine) ine) nagery (87)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	)	ots (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) uration Visible on Aerial Imagery
Type: Depth (incherent property)  YDROLOG  YDROLOG  Wetland Hydro  Primary Indicate  Surface Wa  High Water  Saturation (A)  Water Marks  Sediment D  Drift Deposi  Surface Soi  Inundation \ Water-Stain  ield Observat	es):  Y  Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nongivering (B3) (Nonrivering (B3) (Nonriv	ne) riverine) ine) nagery (87)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	ust (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	)	ots (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) uration Visible on Aerial Imagery
Type: Depth (Inche Remarks:  YDROLOG' Wetland Hydro Primary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain	Y Diogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering the (B3) (Nonrivering the (	ne) Iriverine) ine) nagery (87) es	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	)	ots (C3)	Second:  Wat Sed Drift Drai Dry- Thin Cray Satu	ary indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) uration Visible on Aerial Imagery
Type: Depth (incherent incherent inc	y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering its (B3) (Nonrivering its	ne) Iniverine) Inagery (87)  es  No  Ses  No  Ses	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrates i Sulfide Oc Rhizospher of Reduce on Reduction	for (C1) res along b d fron (C4) on in Plowe	) ed Soils (	ots (C3)	Second  Wat Sed Drift Drai Thin Cray Satu Shai	ary indicators (2 or more require er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) uration Visible on Aerial Imagery

Remarks:

Project/Site: Hermiston LWI City/County: Herr	miston Sampling Date:	7/31/1	12		
Applicant/Owner: State: OR Samplin	g Point: 37				
Investigator(s): MRS Section, Township	o, Range: T4N, R28E, 1	2			
Landform (hillslope, terrace, etc.): Ditch Local re	elief (concave, convex,	none)	: Concave Slope	e (%):3-6	
Subregion (LRR):D Lat: 45.8432 Long:	-119.2536 Datum	:			
Soil Map Unit Name: Winchester Sand NWI cla	ssification:				
Are climatic / hydrologic conditions on the site ty		ar? Ye	es ⊠ No □ (lf	no, explain in Remarks.)	
Are Vegetation ☐, Soil ☐, or Hydrology ☐ sign				nstances" present? Yes ⊠ N	o 🗆
Are Vegetation □, Soil □, or Hydrology □ nati	•			any answers in Remarks.)	<del></del>
SUMMARY OF FINDINGS - Attach s	•	•	•	·	portant features, etc.
	 ⊠ No □				,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
	□ No ⊠	1	Is the Sample		
1 -	□ No ⊠		within a Wetla	nd? Yes □ No 🛚	
Remarks:					
VEGETATION					
Tree Stratum (Plot size: 30)	Absolute % Cover Sp		inant Indicator	Dominance Test workshee	
1.	<u> </u>			Number of Dominant Specie That Are OBL, FACW, or FA	
2.				Total Number of Dominant	
3.				Species Across All Strata:	<u>2</u> (B)
4.				Percent of Dominant Specie	s
				That Are OBL, FACW, or FA	
į	Total Cover:			Prevalence Index workshe	et:
Sapling/Shrub Stratum (Plot size: 5')	90	х	FAC	Total % Cover of:	Multiply by:
1.Eleagnus angustifolia			17AC	OBL species	x 1 =
3.				FACW species	x 2 =
4.				FAC species	x 3 =
5.				FACU species	
					x 5 =
	Total Cover: 90			Column Totals:(B)	(A)
Herb Stratum (Plot size: 5')  1.Lolium perenne	10	Ι×	FAC	Prevalence Index = B	′A =
2.				Hydrophytic Vegetation In	
3.					
4.				Prevalence Index is =	
5.				Morphological Adapt	ations <sup>1</sup> (Provide supporting
6.					nytic Vegetation <sup>1</sup> (Explain)
7.				- Toblemado Hydropi	tytio rogotation (Explain)
8.				<sup>1</sup> Indicators of hydric soil and	wetland hydrology must
	Total Cover: 10			be present.	
Woody Vine Stratum (Plot size: 5')	Total Cover. 10			Undranhytic	
1.				Hydrophytic Vegetation	
2.				Present? Yes	No 🗍
	Total Cover:			Remarks:	
% Bare Ground in Herb Stratum 0	% Cover of Biotic	Crust			

Arid West - Version 2.0

Depth	iption: (Describe Matrix	•		dox Featur	es				•
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc²	Tex	ture	Remarks
0-16	2.5Y3/2	100			T		S		
		-						<u></u>	
		-							
		ļ							
		<del>                                     </del>							
						·· <u>·····</u>			
			***************************************				L		
	centration, D=Dep					re Lining,			nel, M=Matrix.
	dicators: (Applic	able to all Li			ted.)				for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol (			Sandy Red						uck (A9) (LRR C)
	pedon (A2)		Stripped M						uck (A10) (LRR B)
☐ Black Hist ☐ Hydrogen	tic (A3) i Sulfide (A4)		Loamy Mu		. ,				ed Vertic (F18)
	ı Sumoe (A4) ∴ayers (A5) (LRR⊣	c)	☐ Loamy Gle ☐ Depleted N		. ,				rent Material (TF2) Explain in Remarks)
	k (A9) (LRR D)	0,	Redox Dar				لسنة	Otros (.	Ехріан ін пенатој
	Below Dark Surface	e (A11)	☐ Depleted D						
Thick Dark	Surface (A12)	- ( )	☐ Redox Dep						
☐ Sandy Muc	oky Mineral (S1)		☐ Vernal Pool						of hydrophytic vegetation and
	yed Matrix (S4)							wetland	hydrology must be present.
	yer (if present):								
Туре:									
Depth (inche	es):						Hyd	ric Soil	Present? Yes ☐ No ⊠
• •	es):						Hyd	ric Soil	Present? Yes ☐ No ☒
Depth (inche	es):						Hyd	ric Soil	Present? Yes ☐ No ⊠
Depth (inche	es):	***************************************		•			Hyd	ric Soil	Present? Yes ☐ No ⊠
Depth (inche	es):						Hyd	ric Soil	Present? Yes ☐ No ⊠
Depth (inche							Hyd	ric Soil	Present? Yes □ No ⊠
Depth (inche Remarks:							Hyd		Present? Yes No 🛭
Depth (inche Remarks: YDROLOG <sup>*</sup> Wetland Hydro	Y		ent)				Hyd	Secon	
Depth (inche Remarks: YDROLOG <sup>*</sup> Wetland Hydro	Y plogy Indicators: ors (any one indic		ent)	:(B11)			Hyd	Secon	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (inche Remarks: YDROLOG' Wetland Hydro Primary Indicate	Y plogy Indicators: ors (any one indicater (A1)			, ,			Hyd	Secon	dary Indicators (2 or more required)
Depth (inche Remarks:  YDROLOG' Wetland Hydro Primary Indicate  Surface Wa	Y plogy indicators: ors (any one indicater (A1) Table (A2)		☐ Salt Crust	st (B12)	s (B13)		Hyd	Secon	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> )
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate Surface Water High Water Saturation (A	Y plogy indicators: ors (any one indicater (A1) Table (A2)	ator is sufficie	☐ Salt Crust ☐ Biotic Cru	st (B12) vertebrates			Hyd	Secon  Wa Se Dri	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) ift Deposits (B3) ( <b>Riverine</b> )
Depth (inche Remarks:  YDROLOG* Wetland Hydro Primary Indicate Surface Wa High Water Saturation (A) Water Marks	Y  plogy Indicators: ors (any one indicater (A1) Table (A2)	ator is sufficie	☐ Salt Crust☐ Biotic Cru☐ Aquatic Inv	st (B12) vertebrates Sulfide O	dor (C1)	_iving Ro		Secon  Wa Se Dri  Dri  Dri	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) ift Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)
Depth (inche Remarks:  YDROLOG' Wetland Hydro Primary Indicate Surface Wa High Water Saturation (/	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin	ator is sufficie ne) nriverine)	☐ Salt Crust☐ Biotic Cru☐ Aquatic Inv☐ Hydrogen	st (B12) vertebrates Sulfide O Rhizosphe	dor (C1) res along			Secon  Was  Se  Dri  Dri  Dri  Thi	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi	Y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonriverin	ator is sufficie ne) nriverine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F	ist (B12) vertebrates Sulfide Oo Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	)	ots (C3)	Secon  Wa Se  Dri  Dri  Thi	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate High Water Saturation (A) Water Marks Sediment D Drift Deposi Surface Soi Inundation (A)	Y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering Deposits (B2) (Nonits (B3) (Nonrivering) Il Cracks (B6) Visible on Aerial In	ator is sufficie ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow	)	ots (C3)	Secon  Wa Se Dri Dri Dri Cri Sa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate High Water Saturation (A) Water Marks Sediment D Drift Deposi Surface Soi Inundation (A)	Y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering peposits (B2) (Nonits (B3) (Nonrivering)	ator is sufficie ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow	)	ots (C3)	Secon  Wa  Se  Dri  Dri  Thi  Cri  Sa  Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate High Water Saturation (A) Water Marks Sediment D Drift Deposi Surface Soi Inundation (A)	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonits (B2) (Nonrivering (B3)	ator is sufficie ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow	)	ots (C3)	Secon  Wa  Se  Dri  Dri  Thi  Cri  Sa  Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) ituration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche Remarks:  YDROLOG* Wetland Hydro Primary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain	Y  plogy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering peposits (B2) (Nonite (B3) (Nonrivering II Cracks (B6) Visible on Aerial Intel Leaves (B9) Sions:	ator is sufficie ne) nriverine) ine) magery (B7)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow	)	ots (C3)	Secon  Wa  Se  Dri  Dri  Thi  Cri  Sa  Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) ituration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche Remarks:  YDROLOG' Wetland Hydro Primary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation \ Water-Stain	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverint (B2) (Nonits (B3) (Nonriverint (B3)	ne) nriverine) ine) magery (87) es  No	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp	st (B12) vertebrates Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow	)	ots (C3)	Secon  Wa  Se  Dri  Dri  Thi  Cri  Sa  Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) ituration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate Surface Water Saturation ( Water Marks Sediment D Drift Deposi Inundation \ Water-Stain Water-Stain Surface Water F	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	ne) nriverine) ine) magery (B7) es □ No ☒	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Irc Other (Exp	st (B12) vertebrates Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow	) ed Soils (	ots (C3)	Secon  Wa Se Dri Dri Dri Cri Sa Sh FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) a.C-Neutral Test (D5)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate Surface Water Saturation ( Water Marks Sediment D Drift Deposi Inundation \ Water-Stain Water-Stain Water Table Presencludes capilla	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B4) (Nonrivering	ne) nriverine) ine) magery (B7) es  No  es  No  es  No  es	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Irc Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow marks)	) ed Soils (	ots (C3)	Secon  Wase  Dri  Dri  Thi  Cri  Sa  Sh  FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) ituration Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate Surface Water Saturation ( Water Marks Sediment D Drift Deposi Inundation \ Water-Stain Water-Stain Water Table Presencludes capilla	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverint (B2) (Nonits (B3) (Nonriverint (B3)	ne) nriverine) ine) magery (B7) es  No  es  No  es  No  es	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Irc Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow marks)	) ed Soils (	ots (C3)	Secon  Wase  Dri  Dri  Thi  Cri  Sa  Sh  FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) a.C-Neutral Test (D5)
Depth (inche Remarks:  YDROLOG` Wetland Hydro Primary Indicate Surface Water Saturation ( Water Marks Sediment D Drift Deposi Inundation \ Water-Stain Water-Stain Water Table Presencludes capilla	Y  plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B4) (Nonrivering	ne) nriverine) ine) magery (B7) es  No  es  No  es  No  es	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Irc Other (Exp  Depth (inches): Depth (inches):	ist (B12) vertebrates Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (C4 on in Plow marks)	) ed Soils (	ots (C3)	Secon  Wase  Dri  Dri  Thi  Cri  Sa  Sh  FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) a.C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston Samp	pling Date: 7/31/	12		
Applicant/Owner: State: OR Sampling Point: 38				
Investigator(s): MRS Section, Township, Range: T4	N, R28E, Sec. 1	2		
Landform (hillslope, terrace, etc.): Ditch Local relief (concave	e, convex, none)	): Concave Slope	e (%):3-6%	
Subregion (LRR):D Lat: 45.8432 Long: -119.2536	Datum:	•	` .	
Soil Map Unit Name: Winchester Sand NWI classification:				
Are climatic / hydrologic conditions on the site typical for this	time of year? Y	es⊠ No⊟ (ffi	no explain in Remarks \	
Are Vegetation □, Soil □, or Hydrology □ significantly distr			nstances" present? Yes ⊠ No 🗀	
Are Vegetation □, Soil □, or Hydrology □ naturally problem			any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	•	·		tant features, etc.
Liveten by tin Vagotation Braconta Van 🗆 Na 🗖				
Hydrophytic Vegetation Present? Yes ☐ No ☐ Hydric Soil Present? Yes ☐ No ☐		is the Sampled		
Wetland Hydrology Present? Yes ☒ No ☐		within a Wetlai	nd? Yes ☐ No 🔯	
Remarks:Ditch	I			
VEGETATION				
1	Absolute Dom Cover Species	inant Indicator  ? Status	Dominance Test worksheet:	
1.	20101 0200		Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2.			Total Number of Dominant	( 7
3.			Species Across All Strata:	(B)
4,			Percent of Dominant Species	
	<del></del>		That Are OBL, FACW, or FAC:	(A/B)
Total Cover:	****		Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 5')			Total % Cover of:	Multiply by:
2.			OBL species	
3,			FACW species	x 2 =
4.			FAC species	x 3 =
5.			FACU species	i
	<u> </u>		1	x 5 =
Total Cover: <u>Herb Stratum</u> (Plot size: 5')	-		Column Totals:(B)	(A)
1.			Prevalence Index = B/A =	
2.			Hydrophytic Vegetation Indicat	ors:
3.			Dominance Test is >50%	
4.			Prevalence Index is =3.01	,
5.			Morphological Adaptations data in Remarks or on a s	s¹ (Provide supporting
6.			Problematic Hydrophytic	` '
7.				(=, +,,
8.			<sup>1</sup> Indicators of hydric soil and wetle be present.	and hydrology must
Total Cover:				
Woody Vine Stratum (Plot size: 5')			Hydrophytic	
1.			Vegetation Present? Yes	No 🖾
2.			Damayka: Ditah Scattered Phais	rie arundinacoa et
Total Cover:  % Bare Ground in Herb Stratum 100 % Cov	ver of Biotic Crus	st	Remarks: Ditch. Scattered Phala edges.	nio arunumaced at

SOIL									Sampling Point: 38
CATALOGUE AND AND AND AND AND AND AND AND AND AND	ription: (Describe	to the denth	needed to doc	ument the	indicator	or confin	m the a	bsence (	тором в него при при в него в него в него в него в него в него в него в него в него в него в него в него в него
Depth	Matrix	to the depth		dox Feature		0. 00			
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
				1					
	***************************************		***************************************						
							***************************************	······································	
<u> </u>	<b>-</b>	L		LL	l				
¹Type: C≃Co	ncentration, D≃Dep	letion, RM=Ri	educed Matrix.	<sup>2</sup> Location	n: PL≃Por	e Linina. i	RC=Roc	ot Channe	el, M=Matrìx.
	ndicators: (Applica								or Problematic Hydric Soils <sup>3</sup> :
☐ Histosol	(A1)		☐ Sandy Red	dox (S5)				1 cm Mu	ick (A9) (LRR C)
	pipedon (A2)		☐ Stripped N	Vatrix (S6)					ck (A10) (LRR B)
☐ Black His			Loamy Mu						d Vertic (F18)
	n Sulfide (A4)	• (	Loamy Gl		(F2)				ent Material (TF2)
	Layers (A5) (LRR C ck (A9) (LRR D)	<i>&gt;</i> )		Matrix (F3)	(Ec)			Other (E	xplain in Remarks)
t .	Below Dark Surface	·/Δ11\	Redox Da	тк Surrace ( Dark Surfac					
1	k Surface (A12)	((111)	☐ Redox De						
	cky Mineral (S1)		☐ Vernal Poo	. ,	. 0,		3Inc	licators o	of hydrophytic vegetation and
	eyed Matrix (S4)			(/					nydrology must be present.
Restrictive La	ayer (if present):			***************************************					
Type:									
Depth (inch	nes):						Hydi	ric Soil F	Present? Yes ☐ No ☐
Remarks:		***************************************		***************************************					Live Live Live Live Live Live Live Live
					•				
						***************************************			-
HYDROLOG	iY								
Wetland Hydr	ology Indicators:				···································	····		Second	fary Indicators (2 or more required)
Primary Indica	tors (any one indica	itor is sufficier	nt)		•••••		******	☐ Wa	ter Marks (B1) (Riverine)
Surface W	ater (A1)		☐ Salt Crus	t (B11)				☐ Sec	diment Deposits (B2) (Riverine)
☐ High Wate	r Table (A2)		☐ Biotic Cru	ust (B12)					t Deposits (B3) (Riverine)
☐ Saturation (	(A3)		☐ Aquatic In	vertebrates	(B13)				inage Patterns (B10)
☐ Water Mark	s (B1) (Nonriverine	ө)	☐ Hydroger	Sulfide Od	for (C1)				-Season Water Table (C2)
	Deposits (B2) ( <b>Nonr</b>		Oxidized	Rhizospher	es along L	iving Roo	ts (C3)		Muck Surface (C7)
☐ Drift Depos	sits (B3) ( <b>Nonriveri</b> r	ne)	Presence						yfish Burrows (C8)
☐ Surface So	il Cracks (B6)		☐ Recent in	on Reductio	n in Plowe	ed Soils (C	26)		uration Visible on Aerial Imagery (C9)
☐ Inundation	Visible on Aerial Im	agery (B7)	Other (Exp			·	-		illow Aquitard (D3)
	ned Leaves (B9)	•							C-Neutral Test (D5)
Field Observa	tions:								, ,
Surface Water	Present? Yes	s⊠ No∏ I	Depth (inches):	1.5"					
Water Table Pr	_		Pepth (inches):						
Saturation Pres			Depth (inches):			Wetl	and Hw	drology	Present? Yes⊠ No 🗌
(includes capilla	ary fringe)		. , ,	***		1			
Describe Recor	ded Data (stream g	jauge, monito	ring well, aerial	photos, pro	evious insp	ections),	if availa	ble:	

Remarks:

Investigator(s): MRS Section, Too Landform (hillslope, terrace, etc.): Ditch L	ampling Point: 39 wnship, Range: T4N, R28E ocal relief (concave, conve Long: -119.2536 Datu WI classification:	, Sec. 1 x, none im:	2 ): Concave Slope	
Are Vegetation $\square$ , Soil $\square$ , or Hydrology [	☐ significantly disturbed?	Ar	e "Normal Circun	nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology [	naturally problematic?	(1:	f needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS - Atta	ach site map showin	g san	npling point I	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes		Is the Sampled within a Wetlan	
IXemans.			PR 4444-PA 4 1 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
VEGETATION				
<u>Tree Stratum</u> (Plot size: 30)  1. 2. 3.	Absolute % Cover		ninant Indicator	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 3 (B)
4.	Tatal Course			Percent of Dominant Species That Are OBL, FACW, or FAC: 66 (A/B)
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:			Prevalence Index worksheet:
1.Rosa eglanteria	60	х	UPL.	Total % Cover of: Multiply by:
2. Eleagnus angustifolia	30	×	FAC	OBL species x1=
3.				FACW species x 2 = FAC species x 3 =
4.				FACU species x 4 =
5.				UPL species x 5 =
Herb Stratum (Plot size: 5')	Total Cover: 90			Column Totals: (A)
1.Lolium perenne	70	х	FAC	Prevalence Index = B/A =
2.		_		Hydrophytic Vegetation Indicators:
3.				☐ Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				1 (2) of the top of th
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: 5')  1. 2.	Total Cover: <u>70</u>			Hydrophytic Vegetation Present? Yes ⊠ No □
	Total Cover:			Remarks:
9/ Baro Ground in Herb Stratum	% Cover of Biotic	c Crust		

US Army Corps of Engineers

Arid West -- Version 2.0

SOIL	**************************************	attati dadha tigʻaqiya a kayiya qayya qayya t	1064410944444444444444444444444444444444					o band be summer and so some in		ampling Point:	.39
F	ription: (Describe	to the depth				or confi	rm the al	bsence of	indicato	rs.)	
Depth (inches)	Matrix Color (moist)	<del></del>	Rec	dox Feature %	s Type¹	Loc²	- Toy	ture		Remarks	
			Color (moist)		- 1 X D C			aure _		ixemaiks	
0-16	2.5Y3/2	100					S				
						·					
L		L		<u> </u>			l	l			
<sup>1</sup> Type: C=Co	oncentration, D≃Depl	letion. RM=R	educed Matrix.	<sup>2</sup> l ocatio	n: PL≈Por	re Unina	RC=Roo	it Channel	M:::Matri	v	
Hydric Soil I	ndicators: (Applica	able to all LF	RRs, unless oth	erwise no	ted.)	O Litting,	Indi	icators fo	r Problen	<u>^.</u> natic Hydric S	oils <sup>3,</sup>
☐ Histosol			☐ Sandy Red		,			1 cm Muc			
	pipedon (A2)		☐ Stripped M					2 cm Mucl			
☐ Black H			Loamy Mu					Reduced			
	en Sulfide (A4) Layers (A5) (L <b>RR C</b>	• \	Loamy Gle	-	(F2)			Red Pare		, ,	
	ck (A9) (LRR D)	•)	☐ Depleted N☐ Redox Dar		'E6\		L	Other (Ex	plain in Re	emarks)	
	Below Dark Surface	(A11)	Depleted D								
	k Surface (A12)	V/	☐ Redox Dep								
☐ Sandy Mu	icky Mineral (S1)		☐ Vernal Pool		-,		<sup>3</sup> ind	icators of	hydrophyl	tic vegetation a	nd
	eyed Matrix (S4)									nust be present	
	ayer (if present):										
Type:											
Depth (inc	hes):						Hydr	ic Soil Pr	esent?	Yes 🗌 No [	$\boxtimes$
Remarks:								· · · · · · · · · · · · · · · · · · ·			
IYDROLOG	SY										
Wetland Hydi	rology Indicators:	···						C			
	itors (any one indica	tor le exifficie	nt\							ors (2 or more r	equired)
☐ Surface W		tor is sufficie:		/D44\						31) (Riverine)	
	r Table (A2)		☐ Salt Crust ☐ Biotic Crus							osits (B2) ( <b>Rive</b>	
☐ Saturation	• •		☐ Aquatic Inv		/D42\					B3) (Riverine)	
	ks (B1) (Nonriverine	•)	☐ Hydrogen						age Patte		
	Deposits (B2) (Nonr			Rhizospher	` '	ivina Da	ste /C3\	-		ater Table (C2)	
	sits (B3) (Nonriverin		*****	of Reduce			ns (Co)	Thin N	ish Burrov		
	oil Cracks (B6)	,	☐ Recent Iro				C6)			ws (Co) ble on Aerial Im	(00)
	Visible on Aerial Ima	agery (B7)	☐ Other (Exp			,a 00113 (	00)		ow Aquita		agery (C9)
	ned Leaves (B9)	• • • •	( <del>-</del>						Neutral Te	, ,	
Field Observa	tions:								udi 16	JOI (DO)	
Surface Water	Present? Yes	s □ No ⊠ i	Depth (inches):								
Nater Table Pr			Depth (inches):			}					
Saturation Pres			Depth (inches):			Mice	land Uvd	Irology P-	ocort?	Vac [***] N - **	7
includes capill	ary fringe)								esent/	Yes ☐ No 🏻	7
escribe Reco	rded Data (stream g	auge, monito	ring well, aerial	photos, pre	vious insp	ections),	if availal	ole:			
emarks:											

Project/Site: Hermiston LWI City/County: Hermiston Applicant/Owner: State: OR Sampling Point Investigator(s): MRS Section, Township, Rang Landform (hillslope, terrace, etc.): Ditch Local relief (consubregion (LRR):D Lat: 45.8432 Long: -119.2 Soil Map Unit Name: Winchester Sand NWI classificate Are climatic / hydrologic conditions on the site typical for Are Vegetation, Soil, or Hydrology significant the Vegetation, Soil, or Hydrology naturally possible	:: 40 ge: T4N, R28E, Sec. 1 pncave, convex, none 536 Datum: ion: or this time of year? Y y disturbed? Airoblematic? (i	i2 ): Concave Slope ∕es ⊠ No	no, explain in Remarks.) nstances" present? Yes ⊠ No any answers in Remarks.)	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes ☐ No  Yes ☐ No  Remarks:Ditch		Is the Sampled within a Wetlan		
VEGETATION				
Tree Stratum (Plot size: 30)	Absolute Dor % Cover Species	ninant Indicator 3? Status	Dominance Test worksheet: Number of Dominant Species	
1. 2. 3.			That Are OBL, FACW, or FAC  Total Number of Dominant Species Across All Strata:	:: (A) (B)
4.			Percent of Dominant Species That Are OBL, FACW, or FAC	: (A/B)
1	Cover:		Prevalence Index workshee	t:
Sapling/Shrub Stratum (Plot size: 5').			Total % Cover of:	Multiply by:
2.			OBL species	x1=
3.			FACW species	x 2 =
			FAC species	x 3 =
4.			FACU species	x 4 =
5.			UPL species	x 5 ≍
Total C  Herb Stratum (Plot size: 5')	Cover:		Column Totals:	(A)
1.			Prevalence Index = B/A	\ <del>**</del>
2.			Hydrophytic Vegetation Ind	icators:
3.			Dominance Test is >50	
4.			Prevalence Index is =3	
5.			Morphological Adaptat	
6.				rtic Vegetation <sup>1</sup> (Explain)
7.			Problematic Hydrophy	dic vegetation (Explain)
8.			<sup>1</sup> Indicators of hydric soil and v	wetland hydrology must
	Cover: _			
Woody Vine Stratum (Plot size: 5')  1.			Hydrophytic Vegetation Present? Yes	] No ⊠
2. Total C			Present? Yes Remarks:	
% Bare Ground in Herb Stratum 100	% Cover of Biotic Cru	ust		

	iption: (Describe to	me deptil i					
Depth(inches)	Matrix Color (moist)	%	Redox Featu Color (moist) %	ures Type <sup>1</sup> L	oc² Tex	ture	Remarks
(IIIOries)	COIOI (INOISI)		<u> </u>		1 16/	<u> </u>	Trementa
		·					
					<del></del>	,	
	centration, D=Deplet			tion: PL=Pore Li			
		ie to ali LRi	Rs, unless otherwise r	noted.)			for Problematic Hydric Soils <sup>3</sup> :
] Histosol ( ] Histic Epi			Sandy Redox (S5)				ick (A9) (LRR C)
	pedon (A2)		☐ Stripped Matrix (S6				ck (A10) (LRR B)
	iic (A3) i Sulfide (A4)		Loamy Mucky Mine				d Vertic (F18)
	ayers (A5) ( <b>LRR C</b> )		☐ Loamy Gleyed Mat ☐ Depleted Matrix (F3				rent Material (TF2)
	k (A9) (LRR D)		☐ Redox Dark Surfac			Other (E	Explain in Remarks)
	elow Dark Surface (A		☐ Depleted Dark Surf				
	Surface (A12)	•	Redox Depressions	` '			
	cky Mineral (S1)		☐ Vernal Pools (F9)	- (, -)	3Inc	licators o	of hydrophytic vegetation and
Sandy Gle	yed Matrix (S4)						nydrology must be present.
strictive La	yer (if present):	·					
					i		
Туре:	. , ,						
Type: Depth (inch					Hyd	ric Soil F	Present? Yes No No
Type:					Hyd	ric Soil F	Present? Yes 🗌 No 🗍
Type: Depth (inch					Hyd	ric Soil F	Present? Yes 🗌 No 🗍
Type: Depth (inchemarks:	es):				Hyd	ric Soil F	Present? Yes No No
Type: Depth (inchemarks:	es): Y				Hyd		
Type: Depth (inchemarks:  DROLOG	es): Y Dlogy Indicators:	r in cufficien	an an an an an an an an an an an an an a		Hyd	Second	lary Indicators (2 or more required)
Type: Depth (inchemarks:  DROLOG' etland Hydro imary Indicate	es):  Y  plogy Indicators: ors (any one indicator	r is sufficien			Hyd	Second	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> )
Type: Depth (incher marks:  DROLOG etland Hydro mary Indicate Surface Wa	Y Diogy Indicators: ors (any one indicator	r is sufficient	☐ Salt Crust (B11)		Hyd	Second Wa	dary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (Inchemarks:  DROLOG  etland Hydro  mary Indicate Surface Wa  High Water	y  plogy Indicators: ors (any one indicator oter (A1) Table (A2)	r is sufficient	☐ Salt Crust (B11) ☐ Biotic Crust (B12)		Hyd	Second  Wa Sec	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Wa High Water Saturation (	Y  Plogy Indicators: ors (any one indicator iter (A1) Table (A2)	r is sufficient	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrat	•	Hyd	Second  Wa  Sec	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) iinage Patterns (B10)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Water Saturation (A	es):  Y  Dlogy Indicators: ors (any one indicator iter (A1)  Table (A2) A3) s (B1) (Nonriverine)		☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrat ☐ Hydrogen Sulfide (	Odor (C1)		Second Wa Sec Drif Dra Dra	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) -Season Water Table (C2)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Water Saturation (A) Water Marks Sediment D	y  plogy Indicators: ors (any one indicator ater (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonrive	erine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph	Odor (C1) neres along Livin		Second  Wa  Sec  Drift  Dra  Dry  Thin	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Water High Water Saturation (A) Water Marks Sediment D Drift Deposi	y  Plogy Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine)	erine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	Odor (C1) neres along Livin ced Iron (C4)	g Roots (C3)	Second  Wa  Sec  Drift  Dra  Dry  Thin	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) uinage Patterns (B10) -Season Water Table (C2) u Muck Surface (C7) uyfish Burrows (C8)
Type: Depth (inchemarks:  DROLOGietland Hydroimary Indicate) Surface Water Marks Sediment D Drift Deposi	y  plogy Indicators: ors (any one indicator oter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine)	erine) )	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second  Wa  Sec  Drif  Dra  Dry  Thin  Cra  Sat	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) a-Season Water Table (C2) in Muck Surface (C7) inyfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (Inchemarks:  DROLOGY  Etland Hydro  Mary Indicate  Surface Water  Saturation (A)  Water Marks  Sediment D  Drift Deposi  Surface Soi  Inundation (A)	Y  Plogy Indicators:  ors (any one indicator  iter (A1)  Table (A2)  A3)  s (B1) (Nonriverine)  eposits (B2) (Nonriverine)  ts (B3) (Nonriverine)  I Cracks (B6)  Visible on Aerial Imag	erine) )	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second Wa Sec Drif Dra Dry Thin Cra Sat	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) byfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soi Inundation (/ Water-Stain	Y  Plogy Indicators: ors (any one indicator iter (A1) Table (A2) A3) 8 (B1) (Nonriverine) eposits (B2) (Nonrive ts (B3) (Nonriverine) I Cracks (B6) //sible on Aerial Imag ed Leaves (B9)	erine) )	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second Wa Sec Drif Dra Dry Thin Cra Sat	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) a-Season Water Table (C2) in Muck Surface (C7) inyfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain	y  Pology Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imaged Leaves (B9) ions:	erine) ) ery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in R	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second Wa Sec Drif Dra Dry Thin Cra Sat	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) byfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate Surface Wa High Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain	y  Pology Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imaged Leaves (B9) ions:	erine) ) ery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second Wa Sec Drif Dra Dry Thin Cra Sat	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) byfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Depth (Inchemarks:  DROLOG  etland Hydro imary Indicate Surface Water Saturation ( Water Marks Sediment D Drift Deposi Surface Soi Inundation ( Water-Stain eld Observat	y  plogy Indicators: ors (any one indicator) ater (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //sible on Aerial Imaged Leaves (B9) ions: Present?  Yes [	erine) ) :ery (B7) ⊠ No □ D	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in R	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second Wa Sec Drif Dra Dry Thin Cra Sat	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) byfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Depth (Inchemarks:  DROLOGY etland Hydro imary Indicate   Surface Water   Saturation (And Water Marks)   Surface Soi   Inundation (And Water Stain   Water Stain   Surface Water Face	y  plogy Indicators: prs (any one indicator) pter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //sible on Aerial Imag ed Leaves (B9) ions: Present? Yes [ esent? Yes [ ent? Yes [	erine) ) jery (B7) ⊠ No □ D	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduction Other (Explain in Recent (Inches): 2"	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S	g Roots (C3)	Second Wa Sec Drif Dra Dry Thin Cra Sat Sha	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) iyfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inchemarks:  DROLOG  etland Hydro imary Indicate   Surface Water   Saturation (A) Water Marks Sediment D Drift Deposi Surface Soi Inundation (A) Water-Stain eld Observat rface Water Fater Table Presturation Pressoludes capilla	es):  Y  Dlogy Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imag ed Leaves (B9) ions: Present? Yes [ esent? Yes [ ent?	erine) ) ery (B7)  No D ONO D No D	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrat  Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in Recent (Inches): 2"  epth (Inches):	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S emarks)	g Roots (C3) oils (C6)  Wetland Hy	Second  Wa Second  Drift  Dra  Dry  Thin  Cra  Sha  FAC	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) ainage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) byfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Type: Depth (inchemarks:  "DROLOG"  Toronto Hydro  Toro  Tor	es):  Y  Dlogy Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imag ed Leaves (B9) ions: Present? Yes [ esent? Yes [ ent?	erine) ) ery (B7)  No D ONO D No D	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduce Recent iron Reduce Other (Explain in Reduce) Depth (inches): 2"	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S emarks)	g Roots (C3) oils (C6)  Wetland Hy	Second  Wa Second  Drift  Dra  Dry  Thin  Cra  Sha  FAC	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) iyfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inchemarks:  "DROLOG"  Torrimary Indicate Surface Water Saturation (i) Water Marks Sediment D Drift Deposi Surface Soi Inundation (i) Water-Stain eld Observat urface Water Fater Table Presidudes capillatisciple Record	es):  Y  Dlogy Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imag ed Leaves (B9) ions: Present? Yes [ esent? Yes [ ent?	erine) ) ery (B7)  No D ONO D No D	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrat  Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in Recent (Inches): 2"  epth (Inches):	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S emarks)	g Roots (C3) oils (C6)  Wetland Hy	Second  Wa Second  Drift  Dra  Dry  Thin  Cra  Sat  Sha	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) iyfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inchemarks:  "DROLOG"  Tetland Hydrorimary Indicate Surface Water Saturation (/) Water Marks Sediment D Drift Deposition of Water-Stain Water-Stain Water-Stain Water Water Fater Table Presecutives capilla	es):  Y  Dlogy Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imag ed Leaves (B9) ions: Present? Yes [ esent? Yes [ ent?	erine) ) ery (B7)  No D ONO D No D	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrat  Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in Recent (Inches): 2"  epth (Inches):	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S emarks)	g Roots (C3) oils (C6)  Wetland Hy	Second  Wa Second  Drift  Dra  Dry  Thin  Cra  Sat  Sha	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) iyfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inchemarks:  "DROLOG"  etland Hydro- imary Indicate Surface Water Saturation (inchemary Indicate Surface Soil Indicate Surface Soil Inundation (inchemary Indicate Surface Water Stater Table Presected Soil Indicate Soil Indicate Soil Indicate Surface Soil Indicate Surface Soil Indicate Surface Sur	es):  Y  Dlogy Indicators: ors (any one indicator eter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imag ed Leaves (B9) ions: Present? Yes [ esent? Yes [ ent?	erine) ) ery (B7)  No D ONO D No D	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrat  Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in Recent (Inches): 2"  epth (Inches):	Odor (C1) neres along Livin ced Iron (C4) ction in Plowed S emarks)	g Roots (C3) oils (C6)  Wetland Hy	Second  Wa Second  Drift  Dra  Dry  Thin  Cra  Sat  Sha	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) inage Patterns (B10) -Season Water Table (C2) i Muck Surface (C7) iyfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston Sa	, ,	e: 7/31/	12	
Applicant/Owner: State: OR Sampling Point: 4				
Investigator(s): MRS Section, Township, Range:	T4N, R 28E	, Sec. 1	12	
Landform (hillslope, terrace, etc.): ditch Local relief (conc	ave, convex	(, none)	: Concave Slope	e (%):3-6
Subregion (LRR):D Lat: 45.8432 Long: -119.2536	6 Datu	ım:		
Soil Map Unit Name: Winchester Sand NWI classification				
Are climatic / hydrologic conditions on the site typical for tl	nis time of y	ear? Y	'es ⊠ No 🔲 (If i	no, explain in Remarks.)
Are Vegetation □, Soil □, or Hydrology □ significantly d	isturbed?	Ar	e "Normal Circum	nstances" present? Yes ⊠ No □
Are Vegetation □, Soil □, or Hydrology □ naturally prob				any answers in Remarks.)
		-		ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No □			is the Sampled	I Area
Hydric Soil Present? Yes ☐ No 🗵			within a Wetlar	
Wetland Hydrology Present? Yes ☐ No ☒				
Remarks:				
VEGETATION			,.	
Tree Stratum (Plot size: 30)	Absolute <u>% Cover</u> S		ninant Indicator <u> ? Status</u>	Dominance Test worksheet: Number of Dominant Species
1.Populous trichocarpa	20	×	FAC	That Are OBL, FACW, or FAC: 3 (A)
2.				Total Number of Dominant
3.			·	Species Across All Strata: <u>3</u> (B)
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B)
Total Cov Sapling/Shrub Stratum (Plot size: 5')	er: <u>20</u>			Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2. Eleagnus angustifolia	20	×	FAC	OBL species x 1 =
3.			,,,,	FACW speciesx2=
4.				FAC species x 3 =
5.				FACU species x 4 =
				UPL species x 5 =
Total Cov <u>Herb Stratum</u> (Plot size: 5')	эr: <u>20</u>			Column Totals: (A)
1.Lolium perenne	60	×	FAC	Prevalence Index = B/A =
2.Urticua dioica	5		FAC	Hydrophytic Vegetation Indicators:
3.				□ Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation (Explain)
7.				Topicinado il Julio Pili de Vogada de la California
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cov	er: 65			DO PROGRAM
Woody Vine Stratum (Plot size: 5')	<u>vv</u>			Hydrophytic
1.				Vegetation
2.				Present? Yes No No
Total Cov	er:			Remarks:
% Bare Ground in Herb Stratum20 % C	over of Biot	lic Crus	t	

Depth inches)	Matrix Color (moist)	%	Color (moist)	dox Featur %	Type <sup>1</sup>	Loc²	Tex	ture	Remarks
0-16	2.5Y3/2	100					S		
	centration, D≃Deplet					e Lining,			et, M=Matrix.
	dicators: (Applicab	ole to all LF			oted.)				or Problematic Hydric Soils <sup>3</sup> :
Histosol (	•		Sandy Red						ck (A9) (LRR C)
	pedon (A2)		☐ Stripped N	, ,					ck (A10) (LRR B)
Black His	tic (A3) s Sulfide (A4)		Loamy Mu						J Vertic (F18)
-	_ayers (A5) (LRR C)		Depieted I						ent Material (TF2) xplain in Remarks)
	k (A9) (LRR D)		☐ Redox Da					Outor (L	Aprail il Nellaiks)
	Below Dark Surface (/	A11)	☐ Depleted I						
	Surface (A12)	•	Redox De						
	ky Mineral (S1)		☐ Vernal Poo	ls (F9)			<sup>3</sup> Ind	licators o	f hydrophytic vegetation and
	yed Matrix (S4)						\	wetland h	ydrology must be present.
strictive La	yer (if present):						1		
							1		
• .									
Type: Depth (inch marks:	es):					•••••	Hydi	ic Soil P	Present? Yes ☐ No ⊠
Depth (inch marks:							Hydi	ic Soil P	Present? Yes ☐ No ⊠
Depth (inch marks: DROLOG	<b>Y</b>						Hydi		
Depth (inch marks: DROLOG tland Hydro	Y plogy Indicators:						Hydi	Second	lary Indicators (2 or more required)
Depth (inch marks: DROLOG tland Hydro nary Indicat	Y Dlogy Indicators; ors (any one indicato	or is sufficie					Hydi	Second	lary indicators (2 or more required) ter Marks (B1) (Riverine)
Depth (inch marks: DROLOG tland Hydromary Indicat Surface Wa	Y Diogy Indicators: ors (any one indicato ater (A1)	or is sufficie	☐ Salt Crus	* ,			Hyda	Second  Wat	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Depth (inch marks: DROLOG tland Hydro nary Indicat Surface Wa High Water	Y Diogy Indicators; ors (any one indicato ater (A1) Table (A2)	or is sufficie	☐ Salt Crus	ıst (B12)			Hyda	Second  Wat Sed	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Depth (inch marks: DROLOG tland Hydro nary Indicat Surface Wa High Water Saturation (.	Y  Diogy Indicators: ors (any one indicatorater (A1) Table (A2)		☐ Salt Crus ☐ Biotic Cru	ıst (B12) vertebrate			Hydi	Second  Wat  Sec	lary indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Depth (inch marks: DROLOG tland Hydronary Indicate Surface Water Surface Water Saturation (. Water Marks	Y plogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine)		☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	ist (B12) vertebrate i Sulfide O	dor (C1)			Second  Wat  Sed  Drift  Drai	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Depth (inch marks: DROLOG tland Hydro mary Indicat Surface Wa High Water Saturation (, Water Marks Sediment D	Y Diogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriv	verine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized	ust (B12) vertebrate i Sulfide O Rhizosphe	dor (C1) eres along			Second  Wat Second Drift Dran Dry	lary indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Depth (inch marks: DROLOG tland Hydro mary Indicat Surface Wa High Water Saturation (, Water Marks Sediment D Drift Depos	Y Diogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine	verine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate Sulfide O Rhizosphe of Reduc	ldor (C1) eres along ed Iron (C4	)	ots (C3)	Second  Wai Sed Driff Dra Dry Thin	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
DROLOG  Tand Hydro  Mary Indicat  Surface Wa  High Water  Saturation (  Water Mark:  Sediment D  Drift Depos  Surface Soi	Y Diogy Indicators: ors (any one indicatorate (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine)	verine) e)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	)	ots (C3)	Second  Wat Second Drift Drait Drait Thin Crait	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
DROLOG tland Hydro nary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Depos Surface Soi	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) il Cracks (B6) Visible on Aerial Imag	verine) e)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	)	ots (C3)	Second  Wat  Sec  Drift  Dra  Dry  Thin  Cra  Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inch marks: DROLOG tland Hydronary Indicate Surface Water Saturation (A Water Marks Sediment D Drift Depos Surface Soi Inundation (Water-Stair	Y  plogy Indicators: ors (any one indicato ater (A1) Table (A2) A3) s (B1) (Nonriverine) peposits (B2) (Nonriverine il Cracks (B6) Visible on Aerial Imaged Leaves (B9)	verine) e)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	)	ots (C3)	Second  Wat  Sec  Drift  Dra  Dry  Thin  Cra  Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inch marks:  DROLOG tland Hydromary Indicate Surface Water Marks Sediment Depose Surface Soilnundation Water-Stair d Observat	Y Diogy Indicators: ors (any one indicatorater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) il Cracks (B6) Visible on Aerial Imaglied Leaves (B9)	verine) a) gery (B7)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	)	ots (C3)	Second  Wat  Sec  Drift  Dra  Dry  Thin  Cra  Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inch marks:  DROLOG tland Hydro mary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Depos Surface Soi Inundation ( Water-Stair d Observat	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) it Cracks (B6) Visible on Aerial Imaged Leaves (B9) dions: Present? Yes	verine) a) gery (B7) □ No ⊠	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	)	ots (C3)	Second  Wat  Sec  Drift  Dra  Dry  Thin  Cra  Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inch marks: DROLOG tland Hydro mary Indicat Surface Water High Water Saturation (in Water Marks Sediment D Drift Depos Surface Soi Inundation (in Water-Stair d Observatiface Water In ter Table Pro	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) il Cracks (B6) Visible on Aerial Imagined Leaves (B9) itons: Present? Yes esent? Yes	verine) a) gery (B7) \[ No \times \]	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	) ed Soils (	ots (C3)	Second  Wat Second Drift Dra Dry Thin Cra Satt Sha	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C illow Aquitard (D3) C-Neutral Test (D5)
Depth (inch marks:  DROLOG tland Hydro mary Indicat Surface Wa High Water Saturation ( Water Marks Sediment D Drift Depos Surface Soi Inundation ( Water-Stair d Observat face Water I ter Table Pre- uration Pres	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) it Cracks (B6) Visible on Aerial Imaged Leaves (B9) dions: Present? Present? Yes ent? Yes	verine) a) gery (B7) \[ No \times \]	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate i Sulfide C Rhizosphe i of Reduct on Reduct	ldor (C1) eres along ed Iron (C4 ion in Plow	) ed Soils (	ots (C3)	Second  Wat Second Drift Dra Dry Thin Cra Satt Sha	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (inch marks:  DROLOG  Itland Hydromary Indicat Surface Water Marks: Sediment D Drift Depos Surface Soi Inundation V Water-Stair Id Observat face Water I Iter Table Prouration Pres	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) it Cracks (B6) Visible on Aerial Imaged Leaves (B9) dions: Present? Present? Yes ent? Yes	verine)  gery (B7)  No 🖾  No 🐼	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate i Sulfide O Rhizosphe of Reduct on Reduct olain in Re	odor (C1) eres along ed Iron (C4 ion in Plow emarks)	) ed Soils (	ots (C3)	Second  Wat Sed Driff Dra Dry Thin Cra Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C illow Aquitard (D3) C-Neutral Test (D5)
Depth (inch marks:  DROLOG  Itland Hydromary Indicat Surface Water Saturation (AWater Marks) Sediment Depose Surface Soil Inundation (Water-Stain Id Observat face Water Iter Table Progration Presides capillater is the Reconsideration of the Reconsidera	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) it Cracks (B6) Visible on Aerial Imaged Leaves (B9) ions: Present? Yes esent? Yes ent? Yes ent? Yes ent? Yes	verine)  gery (B7)  No 🖾  No 🐼	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate i Sulfide O Rhizosphe of Reduct on Reduct olain in Re	odor (C1) eres along ed Iron (C4 ion in Plow emarks)	) ed Soils (	ots (C3)	Second  Wat Sed Driff Dra Dry Thin Cra Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C illow Aquitard (D3) C-Neutral Test (D5)
Depth (inch marks:  DROLOG  Itland Hydromary Indicat Surface Water Marks: Sediment D Drift Depos Surface Soi Inundation V Water-Stair Id Observat face Water I Iter Table Prouration Pres	Y Diogy Indicators: ors (any one indicators) ater (A1) Table (A2) A3) s (B1) (Nonriverine) deposits (B2) (Nonriverine) its (B3) (Nonriverine) it Cracks (B6) Visible on Aerial Imaged Leaves (B9) ions: Present? Yes esent? Yes ent? Yes ent? Yes ent? Yes	verine)  gery (B7)  No 🖾  No 🐼	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate i Sulfide O Rhizosphe of Reduct on Reduct olain in Re	odor (C1) eres along ed Iron (C4 ion in Plow emarks)	) ed Soils (	ots (C3)	Second  Wat Sed Driff Dra Dry Thin Cra Satu	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C illow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston Sa	ımpling Dat	e: 7/31/	12	
Applicant/Owner: State: OR Sampling Point: 4:	2			
Investigator(s): MRS Section, Township, Range:	T4N, R28E	, Sec. 1	0	
Landform (hilfslope, terrace, etc.): Ditch Local relief (conc	ave, conve	x, none)	): Concave Slope	e (%):3-6
Subregion (LRR):D Lat: 45.8368 Long: -119.3073	B Datu	ım:		
Soil Map Unit Name: Adkins Fine Sandy Loam NWI class	ification:			
Are climatic / hydrologic conditions on the site typical for the		rear? Y	es IXI No IXI (If i	no, explain in Remarks )
Are Vegetation □, Soil □, or Hydrology □ significantly d	•			nstances" present? Yes ⊠ No □
				·
Are Vegetation , Soil , or Hydrology naturally prob		,		any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	snowin	g sam	ipling point i	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			Is the Sampled	d Area
Hydric Soil Present? Yes ☐ No ☒			within a Wetlar	
Wetland Hydrology Present? Yes ☐ No ☒				
Remarks:	***************************************	,,		
VEGETATION				
Tree Stratum (Plot size: 30)	Absolute Cover 5 %		ninant Indicator	Dominance Test worksheet:
1.	TOOVEL C	<u>opedies</u>	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4.				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
Total Cove	er:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')	······			Total % Cover of: Multiply by:
1.				OBL species x1 =
2.				FACW speciesx2 =
3.				FAC species x 3 =
4.				FACU species x 4 =
5.				UPL species x 5 =
T-fal Carr				Column Totals: (A)
Total Cove <u>Herb Stratum</u> (Plot size: 5')	₹F:			(B)
1.Chenopodium album	55	Х	FACU	Prevalence Index = B/A =
2.Lepidium latifolium	40	х	FAC	Hydrophytic Vegetation Indicators:
3.Phalaris arundinacea	5		FACW	Dominance Test is >50%
4.				Prevalence Index is =3.01
5.				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				The first of the f
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present.
Total Cove	er: <u>100</u>			
Woody Vine Stratum (Plot size: 5')				Hydrophytic Vegetation
1.				Present? Yes ☐ No ⊠
2. Total Cove	ar.			Remarks: Lepidium is an invasive species. May be
		. 0		problematic.
% Bare Ground in Herb Stratum0	ver of Biotic	crust		

Depth inches)	Matrix Color (moist)	<u>%</u>	Color (moist)	dox Featur %	Type <sup>1</sup>	Loc²	Tex	ture	Remarks
0-14	2.5Y3/2	100					S		
		<u> </u>							
·									
	controlice DeDe	lation OM	aDa alexa a d Madele	2,	. 51 5		20 B	. 01	
			Reduced Matrix.  LRRs, unless oth			e Lining,			el, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Histosol (		able to all	Sandy Red		rieu.)				· · · · · · · · · · · · · · · · · · ·
	pedon (A2)		Stripped M						ck (A9) ( <b>LRR C</b> ) ck (A10) ( <b>LRR B</b> )
Black His			☐ Loamy Mu						d Vertic (F18)
	Sulfide (A4)		Loamy Gle	-					ent Material (TF2)
Stratified L	ayers (A5) (LRR	C)	☐ Depleted N	•	,				xplain in Remarks)
	(A9) (LRR D)		Redox Da	rk Surface	(F6)			,	,
	elow Dark Surface	∍ (A11)	Depleted [						
	Surface (A12)		Redox De		(F8)				
	ky Mineral (S1) red Matrix (S4)		☐ Vernal Poo	is (F9)					f hydrophytic vegetation and
	yer (if present):						<u>-γ</u>	vetland h	ydrology must be present.
JUITOU TO LU	you to bresents.								
Туре:							Hvdr	ic Sail D	Present? Vec T No M
Type: Depth (inche						***************************************	Hydr	ic Soil P	Present? Yes ☐ No ⊠
Туре:							Hydr	ic Soil P	Present? Yes ☐ No ⊠
Type: Depth (inche							Hydr	ic Soil P	Present? Yes ☐ No ⊠
Type: Depth (inche						***************************************	Hydr	ic Soil P	Present? Yes ☐ No ☒
Type: Depth (inche							Hydr	ic Soil P	Present? Yes ☐ No ⊠
Type: Depth (inche	98):						Hydr	ic Soil P	Present? Yes ☐ No ⊠
Type: Depth (incher marks: DROLOGY	es):  Y  logy Indicators:						Hydr		Present? Yes ☐ No ☑  ary indicators (2 or more required)
Type: Depth (incher marks:  DROLOGY otland Hydro	es): Y	ator is suffic	sient)				Hydr	Second	
Type: Depth (inche marks:  DROLOGY tland Hydro mary Indicate	es):  Y  ology Indicators; ors (any one indic	ator is suffic	slent) □ Salt Crusi	t (B11)			Hydr	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (incher marks:  DROLOG` etland Hydro mary Indicate Surface Wa	es):  Y  logy Indicators: ors (any one indic ter (A1)	ator is suffic					Hydr	Second □ Wat	ary Indicators (2 or more required)
Type: Depth (incher marks:  DROLOG` etland Hydromary Indicate Surface Wa High Water	Y  logy Indicators; ors (any one indic ter (A1) Table (A2)	ator is suffic	☐ Salt Crust	st (B12)	s (B13)		Hydr	Second  Wat  Sed  Driff	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Type: Depth (inches marks:  DROLOGY etland Hydromary Indicate Surface Water Saturation (A	Y  logy Indicators; ors (any one indic ter (A1) Table (A2)		☐ Salt Crusi☐ Blotic Cru	st (B12) vertebrate			Hydr	Second  Wat  Sed  Driff	iary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (incher and incher an	Y  llogy Indicators: ors (any one indic ter (A1) Table (A2)	<b>e</b> )	☐ Salt Crusi ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	ist (B12) vertebrate Sulfide O	dor (C1)	iving Roc		Second  Wat  Sed  Drift  Drai	iary indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
Type: Depth (incher and incher an	y plogy Indicators: ors (any one indicator (A1) Table (A2) A3) s (B1) (Nonriverin	e) riverine)	☐ Salt Crusi ☐ Bíotic Cru ☐ Aquatic In: ☐ Hydrogen ☐ Oxidized	ist (B12) vertebrate Sulfide O Rhizosphe	dor (C1)			Second  Wat Sed Driff Draf	lary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Type: Depth (incher emarks:  DROLOG` etland Hydro imary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi	es):  Plogy Indicators:  Pris (any one indicator (A1)  Table (A2)  A3)  5 (B1) (Nonrivering eposits (B2) (Nonrivering to (B3) (Nonrivering to (B3))	e) riverine)	☐ Salt Crusi ☐ Bíotic Cru ☐ Aquatic In: ☐ Hydrogen ☐ Oxidized	st (B12) vertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along L ed Iron (C4)		ots (C3)	Second Wat Sed Driff Drai	ary indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
Type: Depth (incher emarks:  DROLOG` etland Hydro mary Indicate Surface Wa High Water Saturation (A Water Marks Sediment D Drift Deposi Surface Soil	es):  Plogy Indicators:  Pris (any one indicator (A1)  Table (A2)  A3)  5 (B1) (Nonrivering eposits (B2) (Nonrivering to (B3) (Nonrivering to (B3))	e) riverine) ne)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along L ed Iron (C4) on in Plowe		ots (C3)	Second  Wat Sed Drift Drai	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) dinage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Type: Depth (incher marks:  DROLOG' otland Hydro mary Indicate Surface Wa High Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soil Inundation \	y  logy Indicators;  ors (any one indicator (A1))  Table (A2)  A3)  (B1) (Nonrivering (B2) (Nonrivering (B3) (B6))	e) riverine) ne)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along L ed Iron (C4) on in Plowe		ots (C3)	Second  Sed  Drift  Drai  Dry- Thin  Cray	ary indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
DROLOGY  Total Marks:  DROLOGY  Total Marks:  DROLOGY  Total Marks:  Drift Marks:  Surface Water Marks:  Sediment D  Drift Deposition of Marks:  Surface Soil Inundation of Mater-Stain	Y  logy Indicators: ors (any one indicators) ter (A1) Table (A2) A3) s (B1) (Nonrivering eposits (B2) (Nonrivering ts (B3) (Nonrivering	e) riverine) ne)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along L ed Iron (C4) on in Plowe		ots (C3)	Second  Sed  Drift  Drai  Dry- Thin  Cray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (incher marks:  DROLOGY  atland Hydro  mary Indicate  Surface Water  Saturation (A  Water Marks  Sediment D  Drift Deposi  Surface Soil  Inundation V  Water-Stain- Id Observati	y  plogy Indicators: ors (any one indicators) ter (A1) Table (A2) A3) s (B1) (Nonrivering eposits (B2) (Non ts (B3) (Nonrivering Cracks (B6) /isible on Aerial In ed Leaves (B9) ions:	e) riverine) ne) nagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along L ed Iron (C4) on in Plowe		ots (C3)	Second  Sed  Drift  Drai  Dry- Thin  Cray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
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Type: Depth (inche emarks:  DROLOGY etland Hydro mary Indicate Surface Water Saturation (/ Water Marks Sediment D Drift Deposi Surface Soil inundation \ Water-Stain Id Observati face Water F ter Table Pre- uration Prese	y plogy Indicators: ors (any one indicators: ors (any one indicators: ors (any one indicator) (A3) (A3) (A3) (A4) (A4) (A4) (A4) (A4) (A4) (A4) (A4	e) riverine) ne) nagery (B7) es □ No ☒	Salt Crust Blotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Exp	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along L ed Iron (C4) on in Plowe	d Soils (	ots (C3)	Second  Wat Sed Drift Drai Dry- Thin Cray Satu FAC	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C illow Aquitard (D3) C-Neutral Test (D5)
Type: Depth (inche emarks:  DROLOG' etland Hydro mary Indicate Surface Wa High Water Saturation (# Water Marks Sediment D Drift Deposi Surface Soil Inundation \ Water-Stain Id Observati face Water F ter Table Pre- uration Preseludes capilla	y  logy Indicators: ors (any one indicators: ors (any one indicators) ter (A1) Table (A2) A3) s (B1) (Nonrivering eposits (B2) (Nonrivering ts (B3) (Nonrivering Cracks (B6) //sible on Aerial Indicators ed Leaves (B9) fons: Oresent? esent? esent. e	e) riverine) ne) nagery (B7) es  No  Ses  No  Se	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent In Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduction	dor (C1) eres along L ed Iron (C4 on in Plowe marks)	d Soils (	ots (C3)	Second Wat Sed Driff Drai Dry- Thin Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
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Project/Site: Hermiston LWI City/Cou	nty: Hermiston Samplir	ng Date: 7/31/	12		
Applicant/Owner: State: OR	Sampling Point: 43				
Investigator(s): MRS Section, 7	Fownship, Range: T4N,	R28E, Sec. 1	3		
Landform (hillslope, terrace, etc.): Terra	ce Local relief (concav	e, convex, no	ne): None Slope	(%):	
Subregion (LRR):D Lat: 45.8345	Long: -119.2718	Datum:			
Soil Map Unit Name: Adkins Fine Sandy	/ Loam NWI classificat	ion:			
Are climatic / hydrologic conditions on the			es ⊠ No □ (lf :	no, explain in Remarks.)	
Are Vegetation □, Soil □, or Hydrology				nstances" present? Yes ☑ No ☐	1
Are Vegetation □, Soil □, or Hydrology				any answers in Remarks.)	_
SUMMARY OF FINDINGS - A		•			rtant features, etc.
Lie droop tie Veresteien Droop 12	Yes ⊠ No 🏻				
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ☐ No 🔯		is the Sampled		
Wetland Hydrology Present?	Yes ⊠ No □		within a Wetla	nd? Yes ☐ No 🗵	
Remarks:within OHW				· · · · · · · · · · · · · · · · · · ·	
VEGETATION					
T 00 - 1			ninant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	<u>% Co</u>	ver Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
1.					V V
2.				Total Number of Dominant Species Across Ali Strata:	(B)
4.					
				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
	Total Cover: _	<del></del>		Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 5')				Total % Cover of:	Multiply by:
1.				OBL species	
2.				FACW species	
3.				FAC species	x 3 =
4.				FACU species	x 4 ≕
5.				UPL species	x 5 =
	Total Cover:			Column Totals:	(A)
Herb Stratum (Plot size: 5')	total cover	··············		(B)	
1.				Prevalence Index = B/A =	
2.				Hydrophytic Vegetation Indica	
3.				Dominance Test is >50%	
4.				Prevalence Index is =3.0  Morphological Adaptation	
5.				data in Remarks or on a	separate sheet)
6.				Problematic Hydrophytic	: Vegetation¹ (Explain)
7.					
8.				<sup>1</sup> Indicators of hydric soil and we be present.	tland hydrology must
	Total Cover:	100			
Woody Vine Stratum (Plot size: 5')				Hydrophytic	
1.				Vegetation Present?  Yes   ✓	No
2.					
	Total Cover:			Remarks: Polygonum sp, Phala Alisma sp present at edges.	яіз агипошасеа «
% Bare Ground in Herh Stratum	80 (OW) %	Cover of Bioti	c Crust		

	Matrix		Re	dox Feature					_	
(inches)	Color (moist)		Color (maist)	%	Type¹	_Loc <sup>2</sup>	Textur	<u>e</u>	Rema	arks
0-6	2.5Y3/2	100					S			
	***************************************									
		J		L			L	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
¹Type: C=Conce	entration D=Der	aletian RM=R	Paducad Matrix	<sup>2</sup> l ocatio	n. DI –Do	ro Linina	PC-Post C	hannal	MmMatrix	
Hydric Soil India						re Lilling,			Problematic Hy	vdric Soils <sup>3</sup> :
☐ Histosol (A1			☐ Sandy Red		tout,				k (A9) ( <b>LRR C</b> )	, and Oong .
☐ Histic Epipe	•		Stripped N						(A10) (LRR B)	
☐ Black Histic	(A3)		Loamy Mu		al (F1)				√ertic (F18)	
☐ Hydrogen S			Loamy Glo				□ Re	d Parer	nt Material (TF2)	
Stratified La		C)	Depleted I	, ,			☐ Ot	her (Exp	olain in Remarks)	)
1 cm Muck (		~ / ^ 4 4 \	☐ Redox Da							
☐ Depleted Bell☐ Thick Dark S		e (ATT)	☐ Depleted I		, ,					
Sandy Mucky			☐ Vernal Poo	. ,	(FO)		3Indics	itare of h	hydrophytic veget	tation and
☐ Sandy Gleye			Z VOITIGIT OC	,,o (i o)					drology must be p	
Restrictive Laye	r (if present):	***************************************								
Type: Rock										
							1		esent? Yes	No.⊠
Depth (inches	): 6"						Hydric	Soil Pre		
Depth (inches	); 6"		***************************************	···			Hydric	Soil Pre	esentr res []	7 110 123
Remarks:							Hydric	Soil Pre	esentr tes [	1 110 67
							Hydric	Soil Pre	esentr tes []	1 10 67
Remarks:							Hydric	Soil Pre	esentr res	1 10 23
Remarks: Waterway. 80%							Hydric	Soll Pre	esentr res	, ,,,,
Remarks: Waterway. 80%	open water.						Hydric	Soll Pre	esentr res	1 10 2
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo	open water,								ry Indicators (2 or	
Remarks: Waterway. 80%  HYDROLOGY Wetland Hydrolo Primary indicators	open water.  ogy Indicators: s lany one indic		ent)				<u>S</u>	econdar		r more require
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo	open water.  ogy Indicators: s lany one indic		ent) □ Salt Crus	t (B11)			<u>\$</u>	econdar ] Wate	ry Indicators (2 or	r more require verine)
Remarks: Waterway. 80%  HYDROLOGY Wetland Hydrolo Primary indicators	open water.  pgy Indicators: s lany one indicators:						<u>\$</u>	econdar ] Water ] Sedin	ry Indicators (2 or r Marks (B1) (Riv	r more require verine) 2) (Riverine)
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators  Surface Wate	open water.  ogy Indicators: s lany one indicators: or (A1) able (A2)		☐ Salt Crus	ist (B12)	s (B13)		<u>\$</u>	econdar ] Water ] Sedin ] Drift [	ry Indicators (2 or r Marks (B1) ( <b>Riv</b> nent Deposits (B2	r more require verine) 2) (Riverine) verine)
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators  Surface Wate  High Water Ta	open water, ogy Indicators: s lany one indicator (A1) able (A2)	ator is sufficie	☐ Salt Crus ☐ Biotic Cru	ist (B12) vertebrates				econdar ] Water ] Sedin ] Drift [ ] Drain:	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2 Deposits (B3) (Riv	r more require verine) 2) (Riverine) verine) 0)
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water To Saturation (A3 Water Marks ( Sediment Dep	open water,  ogy Indicators: s lany one indicator (A1) able (A2) i) B1) (Nonrivering	ator is sufficie ne) riverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In	ist (B12) vertebrates i Sulfide Oc	dor (C1)	Living Ro	S	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2 Deposits (B3) (Riv age Patterns (B1	r more require verine) 2) (Riverine) verine) 0) ble (C2)
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water To Saturation (A3) Water Marks ( Sediment Dep	open water.  ogy Indicators: s lany one indicator (A1) able (A2) i) B1) (Nonrivering opesits (B2) (Nonrivering (B3) (Non	ator is sufficie ne) riverine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger	ist (B12) vertebrates Sulfide Oo Rhizosphe	dor (C1) res along	-	S C C C C C C	econdar ] Wate ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2 Deposits (B3) (Riv age Patterns (B1 Geason Water Tab	r more require verine) 2) (Riverine) verine) 0) ble (C2)
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water To Saturation (A3) Water Marks ( Sediment Dep	open water.  ogy Indicators: s lany one indicator (A1) able (A2) i) B1) (Nonrivering openits (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B6))	ator is sufficiente)  uriverine)  ine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	sst (B12) vertebrates Sulfide Oc Rhizosphe of Reduce on Reduction	dor (C1) res along ed iron (C4 on in Plow	1)	S C C C cots (C3)	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1 Geason Water Tat Juck Surface (C7	r more require verine) 2) (Riverine) verine) 0) ble (C2)
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water To Saturation (A3) Water Marks ( Sediment Dep Drift Deposits Surface Soll C	open water.  ogy Indicators: s lany one indicators: or (A1) able (A2) i) B1) (Nonrivering to the content of the	ator is sufficiente)  uriverine)  ine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence	sst (B12) vertebrates Sulfide Oc Rhizosphe of Reduce on Reduction	dor (C1) res along ed iron (C4 on in Plow	1)	S C C C cots (C3)	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M ] Crayfi ] Saturi	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1 Geason Water Tat Auck Surface (C7 ish Burrows (C8)	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water Ti Saturation (A3 Water Marks ( Sediment Deposits Surface Soil C Inundation Vis Water-Stained	open water.  ogy Indicators: s lany one indicator (A1) able (A2) i) B1) (Nonrivering to the consits (B2) (Nonrivering (B3) (Nonrivering (B	ator is sufficiente)  uriverine)  ine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	sst (B12) vertebrates Sulfide Oc Rhizosphe of Reduce on Reduction	dor (C1) res along ed iron (C4 on in Plow	1)	S C C C cots (C3) C (C6) C	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M ] Crayfi ] Saturi ] Shalld	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ts Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Surface Soil C Inundation Vis Water-Stained	open water.  ogy Indicators: s lany one indicators (A1) able (A2) b) B1) (Nonrivering (B3) (Nonriverin	ator is sufficient ne) nriverine) ine) nagery (B7)	Salt Crus Solt Crus Siotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Ex	ist (B12) vertebrates a Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along ed iron (C4 on in Plow	1)	S C C C cots (C3) C (C6) C	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M ] Crayfi ] Saturi ] Shalld	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water Ti Saturation (A3 Water Marks ( Sediment Deposits Surface Soil C Inundation Vis Water-Stained	open water.  ogy Indicators: s lany one indicators (A1) able (A2) b) B1) (Nonrivering (B3) (Nonriverin	ator is sufficient ne) nriverine) ine) nagery (B7)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ist (B12) vertebrates a Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along ed iron (C4 on in Plow	1)	S C C C cots (C3) C (C6) C	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M ] Crayfi ] Saturi ] Shalld	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ts Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Surface Soil C Inundation Vis Water-Stained	open water.  opgy Indicators: s lany one indicator (A1) able (A2) b) B1) (Nonrivering (B3) (Nonriverin	ator is sufficient  ie)  iriverine)  ine)  nagery (B7)  es ⊠ No □	Salt Crus Solt Crus Siotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Ex	ist (B12) vertebrates a Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along ed iron (C4 on in Plow	1)	S C C C cots (C3) C (C6) C	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M ] Crayfi ] Saturi ] Shalld	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water High Water Tail Saturation (A3) Water Marks ( Sediment Deposits Surface Soil C Inundation Vis Water-Stained Field Observatio Surface Water Presentation Presentation Presentation	open water.  ogy Indicators: s lany one indicators: or (A1) able (A2) ii) B1) (Nonrivering cosits (B2) (Non (B3) (Nonrivering cracks (B6) sible on Aerial Indicators (B9) ns: esent? esent? yeent?	ator is sufficient  ine)  ineine)  inagery (B7)  es  No  =	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydroger ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp	ust (B12) vertebrates a Sulfide Oc Rhizosphe a of Reduce on Reducti ofain in Rer	dor (C1) res along ed iron (C4 on in Plow	I) red Soils	S C C C cots (C3) C (C6) C	econdar ] Water ] Sedin ] Drift [ ] Drain: ] Dry-S ] Thin M ] Crayfi ] Saturi ] Shalld ] FAC-I	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B2) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Surface Soil C Inundation Vis Water-Stained Field Observatio Surface Water Presentation Presentat	open water.  opgy Indicators: s lany one indicators: or (A1) able (A2) ii) B1) (Nonrivering cosits (B2) (Non (B3) (Nonrivering cracks (B6) sible on Aerial Indicators (B9) ns: esent? ent? fringe)	ator is sufficient  ine)  uriverine)  ine)  nagery (B7)  es     No	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent in Other (Exp	ust (B12) vertebrates a Sulfide Ori Rhizosphe of Reduce on Reduction of ain in Rer	dor (C1) res along ed iron (C4 on in Plow marks)	ved Soils	ots (C3)	econdar  Water  Sedin  Drift I  Dry-S  Thin M  Crayfi  Satura  FAC-I	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B3) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A ow Aquitard (D3) Neutral Test (D5)	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water High Water Tail Saturation (A3) Water Marks ( Sediment Deposits Surface Soil C Inundation Vis Water-Stained Field Observatio Surface Water Presentation Presentation Presentation	open water.  opgy Indicators: s lany one indicators: or (A1) able (A2) ii) B1) (Nonrivering cosits (B2) (Non (B3) (Nonrivering cracks (B6) sible on Aerial Indicators (B9) ns: esent? ent? fringe)	ator is sufficient  ine)  uriverine)  ine)  nagery (B7)  es     No	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent in Other (Exp	ust (B12) vertebrates a Sulfide Ori Rhizosphe of Reduce on Reduction of ain in Rer	dor (C1) res along ed iron (C4 on in Plow marks)	ved Soils	ots (C3)	econdar  Water  Sedin  Drift I  Dry-S  Thin M  Crayfi  Satura  FAC-I	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B3) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A ow Aquitard (D3) Neutral Test (D5)	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Surface Soll C Inundation Vis Water-Stained Field Observatio Surface Water Presentation Presentati	open water.  opgy Indicators: s lany one indicators: or (A1) able (A2) ii) B1) (Nonrivering cosits (B2) (Non (B3) (Nonrivering cracks (B6) sible on Aerial Indicators (B9) ns: esent? ent? fringe)	ator is sufficient  ine)  uriverine)  ine)  nagery (B7)  es	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent in Other (Exp	ust (B12) vertebrates a Sulfide Ori Rhizosphe of Reduce on Reduction of ain in Rer	dor (C1) res along ed iron (C4 on in Plow marks)	ved Soils	ots (C3)	econdar  Water  Sedin  Drift I  Dry-S  Thin M  Crayfi  Satura  FAC-I	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B3) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A ow Aquitard (D3) Neutral Test (D5)	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')
Remarks: Waterway. 80%  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Surface Soil C Inundation Vis Water-Stained Field Observatio Surface Water Presentation Presentat	open water.  opgy Indicators: s lany one indicators: or (A1) able (A2) ii) B1) (Nonrivering cosits (B2) (Non (B3) (Nonrivering cracks (B6) sible on Aerial Indicators (B9) ns: esent? ent? fringe)	ator is sufficient  ine)  uriverine)  ine)  nagery (B7)  es	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent in Other (Exp	ust (B12) vertebrates a Sulfide Ori Rhizosphe of Reduce on Reduction of ain in Rer	dor (C1) res along ed iron (C4 on in Plow marks)	ved Soils	ots (C3)	econdar  Water  Sedin  Drift I  Dry-S  Thin M  Crayfi  Satura  FAC-I	ry Indicators (2 or r Marks (B1) (Riv nent Deposits (B3) Deposits (B3) (Riv age Patterns (B1) Geason Water Tat Juck Surface (C7 ish Burrows (C8) ation Visible on A ow Aquitard (D3) Neutral Test (D5)	r more require verine) 2) (Riverine) verine) 0) ble (C2) ')

Project/Site: Hermiston LWI City/County: Hermiston Samp	ling Date:	7/31/1	2	
Applicant/Owner: State: OR Sampling Point: 44	Ü			
Investigator(s): MRS Section, Township, Range: T4I	V ROSE S	ec 13	<b>.</b>	
Landform (hillstope, terrace, etc.): Terrace Local relief (conce				/0/.\·
			e). None Stope	(70).
Subregion (LRR):D Lat: 45.8345 Long: -119.2718	Datum	:		
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classific				
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Ye	es 🛛 No 🔲 (lfr	no, explain in Remarks.)
Are Vegetation $\square$ , Soil $\square$ , or Hydrology $\square$ significantly disturbed by	arbed?	Are	"Normal Circum	nstances" present? Yes 🗵 No 🗌
Are Vegetation □, Soil □, or Hydrology □ naturally problem	natic?	(lf ı	needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing	samı	pling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☒ No ☐			la tha Camplad	1 Avon
Hydric Soil Present? Yes ☐ No ☒		1	Is the Sampled within a Wetlar	
Wetland Hydrology Present? Yes ☐ No ☒			within a wettar	id: 143 🗆 110 🔼
Remarks:lawn		****		
VEGETATION				
	Absolute		nant Indicator	Dominance Test worksheet:
	Jover Sp	ecies	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1.				That Are OBL, FACW, OF FAC. 1 (A)
2.				Total Number of Dominant
3.				Species Across Ali Strata: <u>1</u> (B)
4.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Total Cover:	*************			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')				Total % Cover of: Multiply by:
1.				OBL species x 1 =
2.				FACW species x 2 =
3.				FAC species x 3 =
4.		<del></del>		FACU species x 4 =
5.				UPL speciesx 5 =
Total Cover:				Column Totals: (A)
Herb Stratum (Plot size: 5')  1.Poa pratensis	90	X	FAC	Prevalence index = B/A =
2.Juncus oxymeris	10	^	FACW	Hydrophytic Vegetation Indicators:
3.Taraxicum officinale	5		FACU	
	3		1700	Prevalence Index is =3.01
4.				Morphological Adaptations <sup>1</sup> (Provide supporting
5.				data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover:	<u>105</u>			
Woody Vine Stratum (Plot size: 5')			•	Hydrophytic
1.				Vegetation
2.				Present? Yes No No
Total Cover:				Remarks: lawn area
% Bare Ground in Herh Stratum 0 % Cover	of Biotic (	Crust		

Depth	Matrix		Rec	dox Features	1 1 2	·- ·	
(inches)	Color (moist)	%	Color (moist)	%Түр	Loc²	<u> </u>	re Remarks
0-6	2.5Y3/2	100				SL	
6-18	2.5Y4/2	100	· · · · · · · · · · · · · · · · · · ·			SL	
			· · · · · · · · · · · · · · · · · · ·				
						<del> </del>	
			l			J	
ype: C=Co	ncentration, D=Depl	etion, RM=R	leduced Matrix.	<sup>2</sup> Location: PL≂	ore Lining,	, RC=Root C	Channel, M≔Matrix.
ydric Soil Iı	ndicators: (Applica	able to all LI	RRs, unless oth	erwise noted.)			tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			☐ Sandy Red			□ 10	om Muck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped N	, ,			m Muck (A10) ( <b>LRR B</b> )
Black Hi				cky Mineral (F1)			educed Vertic (F18)
	n Sulfide (A4)			eyed Matrix (F2)			ed Parent Material (TF2)
	Layers (A5) (LRR C ck (A9) (LRR D)	5)	☐ Depleted N	• •		[] Ot	her (Explain in Remarks)
	Below Dark Surface	/Δ11\		k Surface (F6) Dark Surface (F7)			
-	k Surface (A12)	(/////	☐ Redox Dep				
	icky Mineral (S1)		☐ Vernal Poo			<sup>3</sup> Indica	ators of hydrophytic vegetation and
	eyed Matrix (S4)			()			tland hydrology must be present.
strictive L	ayer (if present):				·····		
	· · · · · · · · · · · · · · · · · · ·						
Type:	·						
	nes):					Hydric	Soil Present? Yes ☐ No ⊠
Type: Depth (incl	nes):					Hydric	Soil Present? Yes ☐ No ⊠
Type:	nes):					Hydric	Soil Present? Yes ☐ No ⊠
Type: Depth (incl	nes):		***************************************			Hydric	Soil Present? Yes ☐ No ⊠
Type: Depth (inch	nes):	••••				Hydric	Soil Present? Yes ☐ No ⊠
Type: Depth (inchemarks:						Hydric	Soil Present? Yes ☐ No ⊠
Type: Depth (inclemarks:	įΥ						
Type: Depth (inclemarks: DROLOG	SY ology Indicators:					<u></u>	econdary Indicators (2 or more required)
Type: Depth (inchemarks:  DROLOG  etiand Hydromary Indica	i <b>Y</b> rology Indicators: tors (any one indicat	tor is sufficie				<u></u>	econdary Indicators (2 or more required) ] Water Marks (B1) ( <b>Riverine</b> )
Type: Depth (incl marks:  DROLOG stland Hydr mary indica Surface W	iY ology Indicators: tors (any one indicat ater (A1)	tor is sufficie	☐ Salt Crust			<u></u>	econdary Indicators (2 or more required) ] Water Marks (B1) (Riverine) ] Sediment Deposits (B2) (Riverine)
Type: Depth (inclemarks:  DROLOG  etland Hydr  mary Indica  Surface W  High Wate	iY rology Indicators: tors (any one indicat ater (A1) r Table (A2)	tor is sufficie	☐ Salt Crust	st (B12)			econdary Indicators (2 or more required) ] Water Marks (B1) (Riverine) ] Sediment Deposits (B2) (Riverine) ] Drift Deposits (B3) (Riverine)
Type: Depth (inchemarks:  DROLOGetland Hydretlimary Indication William Saturation (	ology Indicators: tors (any one indicat ater (A1) r Table (A2)		☐ Salt Crust☐ Biotic Cru	st (B12) vertebrates (B13)			econdary Indicators (2 or more required)  ] Water Marks (B1) (Riverine)  ] Sediment Deposits (B2) (Riverine)  ] Drift Deposits (B3) (Riverine)  ] Drainage Patterns (B10)
Type: Depth (inchemarks:  DROLOGetland Hydretland Hydretland Wate Saturation (Water Market)	ology Indicators: tors (any one indicat ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine	·)	☐ Salt Crust☐ Biotic Cru☐ Aquatic Inv☐ Hydrogen	st (B12) vertebrates (B13) Sulfide Odor (C1		<u>S</u>	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Type: Depth (inchemarks:  DROLOGetland Hydremary Indication (Water Mark Sediment I	ology Indicators: tors (any one indicators (A1) r Table (A2) (A3) ss (B1) (Nonriverine Deposits (B2) (Nonri	e) iverine)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor		S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)
Type: Depth (inchemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos	ology Indicators: tors (any one indicator) ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine Deposits (B2) (Nonriverine	e) iverine)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (	C4)	S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)
Type: Depth (inchemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) is (B1) (Nonriverine Deposits (B2) (Nonrivering indicators) (Nonrivering indicators)	e) Iverine) ne)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl	C4)	S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C6)
Type: Depth (inclemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) as (B1) (Nonriverine Deposits (B2) (Nonriverine sits (B3) (Nonriverine ill Cracks (B6) Visible on Aerial Ima	e) Iverine) ne)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (	C4)	S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C5)
Type: Depth (Inclemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain	iY rology Indicators: tors (any one indicat ater (A1) r Table (A2) (A3) s (B1) (Nonriverine Deposits (B2) (Nonriverin ill Cracks (B6) Visible on Aerial Ima	e) Iverine) ne)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl	C4)	S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C6)
Type: Depth (Inchemarks:  DROLOGetland Hydremary Indication (Water Mark Sediment Indication (Water-Stain Mater-Stain Id Observa	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) ss (B1) (Nonriverine Deposits (B2) (Nonriverine) (B3) (Nonriverine) (Cracks (B6) Visible on Aerial Imaned Leaves (B9)	e) iverine) ne) agery (B7)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl	C4)	S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)
Type: Depth (inclemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Id Observa	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) as (B1) (Nonriverine Deposits (B2) (Nonriverine Diff Cracks (B6) Visible on Aerial Imaned Leaves (B9) tions: Present? Yes	iverine) se) agery (B7)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl	C4)	S C C C cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)
Type: Depth (inclemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Id Observa rface Water tter Table Pr	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) as (B1) (Nonriverine Deposits (B2) (Nonriverine Diff Cracks (B6) Visible on Aerial Imaned Leaves (B9) tions: Present? Yes	iverine) iverine) agery (B7)  I No 🖾	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized Inv Presence Recent Inc Ofher (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl	C4) pwed Soils	S C C C Cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type: Depth (inclemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stail Id Observa rface Water tter Table Pr	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) as (B1) (Nonriverine Deposits (B2) (Nonriverine Did Cracks (B6) Visible on Aerial Imaned Leaves (B9) tions: Present? Yes esent? Yes	iverine) iverine) agery (B7)  I No 🖾	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl	C4) pwed Soils	S C C C Cots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C6)  Shallow Aquitard (D3)
Type: Depth (inchemarks:  DROLOG etland Hydrimary Indica Surface W High Water Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Id Observa rface Water ter Table Produces capilla	tors (any one indicators: tors (any one indicators: ater (A1) r Table (A2) (A3) is (B1) (Nonriverine Deposits (B2) (Nonriverine ill Cracks (B6) Visible on Aerial Ima ined Leaves (B9) tions: Present? Present? Yes esent? Yes ary fringe)	e) iverine) agery (B7)  S No 🖾 S No 🖾	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl lain in Remarks)	O4)  wed Soils	sots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type: Depth (inchemarks:  DROLOG etland Hydrimary Indica Surface W High Water Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Id Observa rface Water ter Table Produces capilla	tors (any one indicators: tors (any one indicators) ater (A1) r Table (A2) (A3) as (B1) (Nonriverine Deposits (B2) (Nonriverine Did Cracks (B6) Visible on Aerial Imaned Leaves (B9) tions: Present? Yes esent? Yes	e) iverine) agery (B7)  S No 🖾 S No 🖾	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl lain in Remarks)	O4)  wed Soils	sots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type: Depth (inchemarks:  DROLOG etland Hydrimary Indical Surface W High Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain eld Observa rface Water ater Table Pr	tors (any one indicators: tors (any one indicators: ater (A1) r Table (A2) (A3) is (B1) (Nonriverine Deposits (B2) (Nonriverine ill Cracks (B6) Visible on Aerial Ima ined Leaves (B9) tions: Present? Present? Yes esent? Yes ary fringe)	e) iverine) agery (B7)  S No 🖾 S No 🖾	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl lain in Remarks)	O4)  wed Soils	sots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type: Depth (Inclemarks:  DROLOG etland Hydr imary Indica Surface W High Wate Saturation ( Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Id Observa rface Water Iter Table Production Presidudes capillis	tors (any one indicators: tors (any one indicators: ater (A1) r Table (A2) (A3) is (B1) (Nonriverine Deposits (B2) (Nonriverine ill Cracks (B6) Visible on Aerial Ima ined Leaves (B9) tions: Present? Present? Yes esent? Yes ary fringe)	e) iverine) agery (B7)  S No 🖾 S No 🖾	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized I Presence Recent Iro Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Pl lain in Remarks)	O4)  wed Soils	sots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

Project/Site: Hermiston LWI City/Coun	ity: Hermiston Sampling Date: 7/31,	/12		
Applicant/Owner: State: OR S	Sampling Point: 45			
Investigator(s): MRS Section, To	ownship, Range: T4N, R28E, Sec. 9	}		
Landform (hillslope, terrace, etc.): Flat L	ocal relief (concave, convex, none):	none Slope (%):	:	
Subregion (LRR):D Lat: 45.8421	Long: -119.3237 Datum:	,		
Soil Map Unit Name: Xerofluents NWI cl	assification:			
Are climatic / hydrologic conditions on the	e site typical for this time of year?	′es⊠ No ⊟ (lfı	no, explain in Remarks.)	
Are Vegetation □, Soil □, or Hydrology			nstances" present? Yes ⊠ No	
Are Vegetation □, Soil □, or Hydrology	· · · · · ·		any answers in Remarks.)	<b>,</b>
SUMMARY OF FINDINGS - At			•	portant features, etc.
Hydrophytic Vegetation Present?	Yes ⊠ No □			
Hydric Soil Present?	Yes ☐ No 🗵	is the Sampled		
Wetland Hydrology Present?	Yes □ No ⊠	within a Wetlar	nd? Yes ☐ No 🛚	
Remarks:			Na 14-14-14-14-14-14-14-14-14-14-14-14-14-1	
VEGETATION	<u></u>			
T C44 (Die4 20)		ninant Indicator	Dominance Test worksheet	
Tree Stratum (Plot size: 30)  1.	<u>% Cover Species</u>	Status	Number of Dominant Species That Are OBL, FACW, or FAC	
2.		-	That Are Obl., PAGW, or PAG	D: 1 (A)
3.			Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC	
	Total Cover:			
Sapling/Shrub Stratum (Plot size: 5')			Prevalence Index workshee Total % Cover of:	
1.			OBL species	
2.			FACW species	
3.			FAC species	
4.			FACU species	
5.			I .	x 5 =
	Total Cover:		Column Totals:	(A)
Herb Stratum (Plot size: 5')	rotas Gover.		(B)	
1.Juncus arcticus	95 x	FACW	Prevalence Index = B/A	<i>t</i> =
2.			Hydrophytic Vegetation Ind	licators:
3.			Dominance Test is >50	
4.			Prevalence index is =3	
5.			Morphological Adaptat data in Remarks or or	tions' (Provide supporting n a separate sheet)
6.			Problematic Hydrophy	•
7.				, , ,
8.			<sup>1</sup> Indicators of hydric soil and was be present.	wetland hydrology must
	Total Cover: 95		F	
Woody Vine Stratum (Plot size: 5')	- 11 <del>- 1200</del> -		Hydrophytic	
1.			Vegetation	C71 N
2.	m o		Present? Yes	No _ □
	Total Cover:		Remarks:	
% Bare Ground in Herb Stratum	5 % Cover of Biotic Crust			

Depth	Matrix			dox Featur	es	<del></del>			
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Rem	arks
0-14	2.5Y3/2	100				5	3L		
-						***************************************			
L			~l		1	ii			
ype: C=Conce	entration, D≃Deple	etion, RM≔l	Reduced Matrix.	<sup>2</sup> Locatio	n: PL=Por	e Lining, R	C≍Root Cha	nnel, M=Matrix.	
dric Soil Indi	cators: (Applica	ble to all L	RRs, unless oth	erwise no	ted.)			rs for Problematic Hy	/dric Soils³:
Histosol (A1	•		☐ Sandy Red					Muck (A9) (LRR C)	
Histic Epipe			☐ Stripped M	, ,				Muck (A10) (LRR B)	
Black Histic			Loamy Mu	•	, ,			iced Vertic (F18)	
Hydrogen S	umae (A4) yers (A5) ( <b>LRR C</b> )	١	Loamy Gle	•	, ,			Parent Material (TF2)	
1 cm Muck (		,	☐ Depleted N☐ Redox Dar				☐ Othe	r (Explain in Remarks)	1
	ow Dark Surface	(A11)	☐ Depleted □						
Depleted Bel Thick Dark S		V 1117	☐ Redox Deg						
Sandy Mucky			☐ Vernal Poo	ls (F9)	/		3Indicato	rs of hydrophytic veget	tation and
Sandy Gleye				, ,				nd hydrology must be p	
strictive Lave	r (if present):		***************************************				1		
ourouro Lajo	i (ii present).								
Type:	· (ii present).								
Type: Depth (inches	,						Hydric Sc	oil Present? Yes 🗌	No⊠
Type: Depth (inches	,						Hydric Sc	oil Present? Yes 🗌	No ⊠
Type: Depth (inches marks:	,						Hydric Sc	oil Present? Yes	No ⊠
Type: Depth (inches marks:  DROLOGY etland Hydrolo	); gy Indicators;							oil Present? Yes	
Type: Depth (inches marks:  DROLOGY stland Hydrolo mary Indicators	gy Indicators:	or is sufficie	ənt)				Sec		· more required)
Type: Depth (inches marks:  DROLOGY etland Hydrolomary Indicators Surface Wate	rgy Indicators: a (any one indicators); b (A1)	or is sufficie	ent) □ Salt Crust	t (B11)			Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b>	· more required) erine)
Type: Depth (inches marks:  DROLOGY etland Hydrolo mary Indicators Surface Wate	rgy Indicators: a (any one indicators); b (A1)	or is sufficie					Sec	ondary Indicators (2 or	· more required) rerine) 2) (Riverine)
Type: Depth (inches marks:  DROLOGY Stland Hydrolomary Indicators Surface Wate High Water Ta	gy Indicators: s (any one indicat r (A1) able (A2)		☐ Salt Crust	st (B12)	s (B13)		Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2	· more required) rerine) 2) (Riverine) verine)
Type: Depth (Inches or arks:  DROLOGY of and Hydrologian Hydrologian Surface Water High Water Ta Saturation (A3) Water Marks (I	gy Indicators: a (any one indicator (A1) able (A2) ) 31) (Nonriverine	)	☐ Salt Crust ☐ Biotic Cru	st (B12) vertebrates			Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2 Drift Deposits (B3) ( <b>Ri</b> v	more required) erine) 2) (Riverine) verine)
Type: Depth (Inches practice) DROLOGY  Stand Hydrolomary Indicators Surface Wate High Water Ta Saturation (A3) Water Marks (I Sediment Dep	gy Indicators: s (any one indicator (A1) able (A2) ) 31) (Nonriverine costs (B2) (Nonri	) verine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen	st (B12) vertebrates Sulfide Od	dor (C1)	iving Roots	Sec	ondary Indicators (2 or Water Marks (B1) (Riv Sediment Deposits (B2 Drift Deposits (B3) (Riv Drainage Patterns (B1	rmore required) erine) 2) (Riverine) verine) 0)
Type: Depth (Inches of the content o	gy Indicators: s (any one indicator (A1) able (A2) ) 31) (Nonriverine (B2) (Nonri	) verine)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F	st (B12) vertebrates Sulfide Od Rhizosphe	dor (C1)	-	Sec 	ondary Indicators (2 or Water Marks (B1) (Riv Sediment Deposits (B2 Drift Deposits (B3) (Riv Drainage Patterns (B1) Dry-Season Water Tab	rmore required) erine) 2) (Riverine) verine) 0)
Type: Depth (Inches of the content o	egy Indicators: s (any one indicator (A1) able (A2) ) 31) (Nonriverine (B3) (Nonrive	) verine) e)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	-	Sec	ondary Indicators (2 or Water Marks (B1) (Riv Sediment Deposits (B2 Drift Deposits (B3) (Riv Drainage Patterns (B1) Dry-Season Water Tab Thin Muck Surface (C7	more required) rerine) 2) (Riverine) verine) 0) 0) ole (C2)
Type: Depth (inches marks:  DROLOGY  Stand Hydrology  High Water Tassaturation (A3) Water Marks (Inches Marks (Inches Marks)  Sediment Depth Drift Deposits Surface Soil Collinary (Inches Marks)	gy Indicators: s (any one indicator) (A1) able (A2) (Nonriverine cosits (B2) (Nonriverine (B3) (Nonriverine cracks (B6) ible on Aerial Ima	) verine) e)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	)	Sec 	ondary Indicators (2 or Water Marks (B1) (Riv Sediment Deposits (B2 Drift Deposits (B3) (Riv Drainage Patterns (B1) Dry-Season Water Tat Thin Muck Surface (C7 Crayfish Burrows (C8)	more required) rerine) 2) (Riverine) verine) 0) 0) ole (C2)
Type: Depth (Inches marks:  DROLOGY stland Hydrolomary Indicators Surface Water High Water Tasturation (A3 Water Marks (I Sediment Dep Drift Deposits Surface Soil Colnundation Vis Water-Stained	ogy Indicators: a (any one indicator) bile (A2) ) B1) (Nonriverine cosits (B2) (Nonriverine (B3) (Nonriverine tracks (B6) ible on Aerial Imal	) verine) e)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	)	Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2 Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1 Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A	more required) (erine) (2) (Riverine) (verine) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0
Type: Depth (Inches marks:  DROLOGY  Interpolation of the properties of the properti	egy Indicators: (any one indicator (A1) (Bable (A2) (Control (B3) (Nonriverine (B3)	) verine) e) agery (B7)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	)	Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2 Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1 Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3)	more required) (erine) (2) (Riverine) (verine) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0
Type: Depth (inches marks:  DROLOGY  Stland Hydrology  And Hydrology  Surface Water High Water Ta  Saturation (A3)  Water Marks (I)  Sediment Dep  Drift Deposits  Surface Soil C  Inundation Vis  Water-Stained  Id Observation  face Water Pres	egy Indicators: s (any one indicator) (A1) able (A2) (Nonriverine cosits (B2) (Nonri (B3) (Nonriverine cracks (B6) ible on Aerial Imal Leaves (B9) as: esent? Yes	) verine) e) agery (B7) : □ No ⊠	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	)	Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2 Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1 Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3)	more required) (erine) (2) (Riverine) (verine) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0
Type: Depth (inches marks:  DROLOGY etland Hydrology etland Hydrology Mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits Surface Soil Co Inundation Vis Water-Stained Id Observation face Water Presenter Table Presenter	gy Indicators: a (any one indicator (A1) able (A2) ) B1) (Nonriverine (B3) (Nonriver	) verine) e) agery (B7) : □ No ⊠	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	)	Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2 Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1 Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3)	more required) (erine) (2) (Riverine) (verine) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0
Type: Depth (inchesemarks:  DROLOGY  etland Hydrologmary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits Surface Soil Co Inundation Vis Water-Stained Id Observation face Water Preservation Present	gy Indicators: s (any one indicator (A1) able (A2) ) B1) (Nonriverine (B3) (Nonriver	verine) e) agery (B7)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp	st (B12) vertebrates Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along L ed Iron (C4) on in Plowe	) ed Soils (C6	Sec	ondary Indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2 Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1 Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3)	rmore required) rerine) 2) (Riverine) verine) 0) ble (C2) ) derial Imagery (C
Type: Depth (inches emarks:  DROLOGY etland Hydrologimary Indicators Surface Water High Water Tassaturation (A3) Water Marks (I Sediment Deporift Deposits Surface Soil Condition Vision Water-Stained Presenter Table Presenter Table Presenter Table Presenter Cauches capillary	gy Indicators: (any one indicator (A1) (able (A2) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	) verine) e) agery (B7)   No 🗵	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along L red Iron (C4) on in Plowe marks)	ed Soils (C6	Sec	ondary indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2) Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1) Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3) FAC-Neutral Test (D5)	rmore required) rerine) 2) (Riverine) verine) 0) ble (C2) ) derial Imagery (C
Type: Depth (inches emarks:  DROLOGY etland Hydrologimary Indicators Surface Water High Water Tassaturation (A3) Water Marks (I Sediment Deporift Deposits Surface Soil Condition Vision Water-Stained Presenter Table Presenter Table Presenter Table Presenter Cauches capillary	gy Indicators: s (any one indicator (A1) able (A2) ) B1) (Nonriverine (B3) (Nonriver	) verine) e) agery (B7)   No 🗵	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along L red Iron (C4) on in Plowe marks)	ed Soils (C6	Sec	ondary indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2) Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1) Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3) FAC-Neutral Test (D5)	rmore required) rerine) 2) (Riverine) verine) 0) ble (C2) ) derial Imagery (C
Type: Depth (inches emarks:  DROLOGY etland Hydrologimary Indicators Surface Water High Water Tassaturation (A3) Water Marks (I Sediment Deporift Deposits Surface Soil Condition Vision Water-Stained Presenter Table Presenter Table Presenter Table Presenter Cauches capillary	gy Indicators: (any one indicator (A1) (able (A2) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	) verine) e) agery (B7)   No 🗵	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized f ☐ Presence ☐ Recent Irc ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along L red Iron (C4) on in Plowe marks)	ed Soils (C6	Sec	ondary indicators (2 or Water Marks (B1) ( <b>Riv</b> Sediment Deposits (B2) Drift Deposits (B3) ( <b>Riv</b> Drainage Patterns (B1) Dry-Season Water Tab Thin Muck Surface (C7 Crayfish Burrows (C8) Saturation Visible on A Shallow Aquitard (D3) FAC-Neutral Test (D5)	rmore required) rerine) 2) (Riverine) verine) 0) ble (C2) ) derial Imagery (C

Project/Site: Hemiston LWI	WET	CLAND DETERMINAT	ION D	ATA FORM	– Arid West Region	A - william to the contract of
Landforn (pillstope, terrace, etc.); Hillstope Local relief (concave, convex, none); Concave Slope (%):5-6%	Project/Site: Hermiston LWI City/Count	y: Hermiston Sampling Dat	e: 7/31/	12		
Landforn (pilkstope, terrace, etc.); Hillstope Local relief (concave, convex, none); Concave. Slope (%):3-6%   Subtrogion (LRR).D. Lat. 45,8421   Long:-119.327   Datum:   Soil Map Unit Name: Xerofluents NWI classification:   Are Vegotation   Soil   Or Hydrology   Significantly disturbed?   Ave Normal Circumstances* present? Yes   No   Are Normal Circumstances* present? Yes   No   If noeded, opposition any answers in Remarks.)	•					
Lendform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%):3-6% Subregion (LRR)D			Sec 0			
Subtregion (LRR):D Lat: 45.8421 Long: -119.3237 Datum:  Soil May Drift Name: Xerofiluents NWI classification:  Are climatic / hydrologic conditions on the site typical for this time of year? Yes \( \) No \( \) (if no, explain in Remarks.)  Are Negetation \( \) Soil \( \) or Hydrology \( \) significantly disturbed?  Are Namal Circumstances' present? Yes \( \) No \( \)  Ave 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 \( \) \( \) Hydrology Present? Yes \( \) No \( \) \( \) No \( \) No \( \) No \( \) Welsard Hydrology Present? Yes \( \) No \( \) \( \) No \(		· · · · · · · · · · · · · · · · · · ·			Hono (9/ \12 69/	
Soil Map Unit Name; Xerofluents NWI classification:  Are direction [		•		nie). Concave 3	поре (76).3-076	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes \( \) No \( \) (if no, explain in Remarks.)  Are Vegetation \( \) Soil \( \), or Hydrology \( \) significantly disturbed?  Are Normal Circumstances' present? Yes \( \) No \( \)  Are Vegetation \( \) Soil \( \), or Hydrology \( \) significantly disturbed?  Are Vegetation \( \) Soil \( \), or Hydrology \( \) studing hardly 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 \( \)  Wetland Hydrology Present?  Yes \( \) No \( \)  Wetgeta No \( \)  Wetgeta No \( \)  Tree Stratum (Plot size: 30)  Absolute Dominant Indicator  X. Cover. Seedes? J. Sielus.  1.  2.  3.  4.  5.  Total Cover:  Septing/Shrub. Stratum (Plot size: 5)  Total Cover:  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  T	• •	-	im:			
Are Vegetation   _ Soil	Soil Map Unit Name: Xerofluents NWI cla	assification:				
Are Vegetation □. Soll □. 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 □	Are climatic / hydrologic conditions on the	site typical for this time of y	ear? Y	es 🛛 No 🔲 (If	no, explain in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.	Are Vegetation $\square$ , Soil $\square$ , or Hydrology	significantly disturbed?	Are	e "Normal Circur	mstances" present?   Yes 🔀 N	10 □
Hydrophytic Vegetation Present?   Yes ⊠ No	Are Vegetation ☐, Soil ☐, or Hydrology	naturally problematic?	(If	needed, explain	any answers in Remarks.)	
Hydric Soil Present?   Yes ⊠ No	SUMMARY OF FINDINGS - Att	ach site map showin	g sam	ıpling point l	ocations, transects, im	portant features, etc
Hydric Soil Present?   Yes ⊠ No	Hydrophytic Vegetation Present?	Yes⊠ No □				
Westart Hydrology Present?   Yes ⊠ No				•		۳
VEGETATION	Wetland Hydrology Present?	Yes ⊠ No 🗆		within a wetia	na? fes⊠ No_	1
Absolute   Dominant Indicator	Remarks:					
Tree Stratum	VEGETATION		<u>-</u>			
1.   2.					Dominance Test workshe	et:
2.		% Cover S	Species	? Status		
3.					That Are OBL, FACVV, or FA	AC: 1 (A)
A.					1 11111	4 (D)
Total Cover:					Species Across Ali Strata:	<u>1</u> (B)
Sapling/Shrub Stratum (Plot size: 5')	4.					
Total % Cover of:    Multiply by:		Total Cover:			Prevalence Index workship	eet:
OBL species					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Z.						
FAC species						
FACU species					FAC species	x3=
Total Cover:					FACU species	x4=
Herb Stratum (Plot size: 5')   1. Typha latifolia   30   x   OBL     Prevalence Index = B/A =	5,				UPL species	x5=
Herb Stratum (Plot size: 5')  1. Typha latifolia 2. 3. 4. 5. 6. 7. 8.  Total Cover: 30  Woody Vine Stratum (Plot size: 5')  1. Hydrophytic  Description Indicators:  Dominance Test is >50%  Prevalence Index is =3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic  Vegetation  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic  Vegetation  Present? Yes ☑ No ☐		Total Cover				(A)
Hydrophytic Vegetation Indicators:   3.	Herb Stratum (Plot size: 5')	Total Cover.			(B)	
3. 4. 5. 6. 7. 8.  Total Cover: 30  Woody Vine Stratum (Plot size: 5')  1. 2.  Dominance Test is >50%  Prevalence Index is =3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Yes No □	1.Typha latifolia	30	х	OBL	Prevalence Index = B	/A =
Prevalence Index is =3.0¹	2.	***************************************			Hydrophytic Vegetation Ir	idicators:
Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	3.				□ Dominance Test is >	50%
data in Remarks or on a separate sheet)  6.  7.  8.  Total Cover: 30  Woody Vine Stratum (Plot size: 5')  1.  2.  Hydrophytic Vegetation  Yes No □  Present?  Yes No □	4.					
6.  7.  8.  Total Cover: 30  Woody Vine Stratum (Plot size: 5')  1.  2.  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Present?  Yes No □	5.				Morphological Adapt	ations <sup>1</sup> (Provide supporting
7. 8.  Total Cover: 30  Woody Vine Stratum (Plot size: 5') 1. 2.  Hydrophytic Vegetation Present? Yes ⊠ No □	6.					· , , , , , , , , , , , , , , , , , , ,
Total Cover: 30  Woody Vine Stratum (Piot size: 5')  1.  2.  Total Cover: 30  Hydrophytic Vegetation Present? Yes No □	7.				Problematic Hydrop	nytic vegetation (cxplain)
be present.  Total Cover: 30  Woody Vine Stratum (Plot size: 5')  1.  2.  Total Cover: 30  Hydrophytic Vegetation Present? Yes ⊠ No □	8.				1 Indicators of bydric soil and	f wetland hydrology muct
Woody Vine Stratum (Piot size: 5')  1.  2. Hydrophytic Vegetation Present? Yes ☑ No ☐						a watana nyarology must
1. 2. Present? Yes No	Manda Vino Charles (District FI)	Total Cover: 30				
2. Present? Yes ⊠ No □						
7.110						⊠ No _ □
	, <b>2.</b>	Total Cover				

% Cover of Biotic Crust

Arid West - Version 2.0

Remarks: bare ground is litter

% Bare Ground in Herb Stratum \_\_\_\_\_70\_\_

inches)	Matrix Color (moist)	%	Color (moist)	edox Featu %		Loc <sup>2</sup>	 Text	ure	Remarks
0-7	2.5Y3/2	100		-1			SL		
7-16	2.5Y3/2	98	10YR3/4	2	С	M	SL		
-10	2.010/2	30	10113/4			IVI	) L		
		ļ							
						***************************************			
				2					
ype: C≕Con wdric Soil In:	centration, D≔Dep dicators: (Applic	letion, RM	I=Reduced Matrix	. "Locat	ion: PL=Po	ore Lining,			
Histosol (		able to al			otea.)				or Problematic Hydric Soils <sup>3</sup> :
	pedon (A2)		☐ Sandy Re ☐ Stripped		)				ck (A9) ( <b>LRR C</b> ) ck (A10) ( <b>LRR B</b> )
Black Hist			Loamy N	•	•				I Vertic (F18)
Hydrogen	Sulfide (A4)		Loamy G	-	, ,				ent Material (TF2)
	ayers (A5) (LRR (	<b>C</b> )	☐ Depleted	l Matrix (F3	3)				xplain in Remarks)
	(A9) (LRR D)	(843)	☐ Redox D		' '				
	elow Dark Surface Surface (A12)	e (A11)	☐ Depleted						
	ky Mineral (S1)		☐ Redox D ☐ Vernal Po		(68)		3 India	notom of	f hydrophytic vegetation and
	ed Matrix (S4)		LI VOITIGIT C	7013 (1 3)					ydrology must be present.
							•••	- a - a - a - a - a - a - a - a - a - a	yararagy made be present.
strictive La	yer (if present):							··/····	
	yer (ir present):								
Type: Depth (inche							Hydri	c Soil P	resent? Yes ⊠ No □
Type: Depth (inche marks:	98);						Hydri	c Soil P	resent? Yes ⊠ No □
Type: Depth (inche marks:  DROLOG)	es):								
Type: Depth (inche marks:  DROLOG) tland Hydro	es):  Y  logy Indicators:							Seconda	ary Indicators (2 or more required)
Type: Depth (inche marks:  DROLOG) tland Hydro mary Indicate	es):  / logy Indicators: ors (any one indica	ator is suffl					:	Seconda	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Type: Depth (inches marks:  DROLOG) tland Hydro mary Indicate Surface Wa	es):  / vlogy Indicators: ors (any one indicator) ter (A1)	ator is suffi	☐ Salt Cru				:	Second: □ Wat	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (inches marks:  DROLOG) tland Hydro mary Indicate Surface Wa High Water	es):  Yology Indicators:  ors (any one indicator (A1) Table (A2)	ator is suffi	☐ Salt Cru ☐ Biotic Ci	rust (B12)				Second: □ Wat □ Sed □ Drift	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine)
Type: Depth (inches marks:  DROLOGY tland Hydro mary Indicate Surface Wa High Water Saturation (A	ology Indicators: ors (any one indicator (A1) Table (A2)		☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I	rust (B12) nvertebrate				Secondi □ Wat □ Sed □ Drift	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine) nage Patterns (B10)
Type: Depth (inches marks:  DROLOG) Itland Hydromary Indicate Surface Water Marks	ology Indicators: ors (any one indicator (A1) Table (A2) (B1) (Nonrivering	e)	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge	rust (B12) nvertebrate en Sulfide C	Odor (C1)	Living Do		Seconda  Wat  Sed  Drift  Drai  Dry-	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine) inage Patterns (B10) Season Water Table (C2)
Type: Depth (inches marks:  DROLOG) Mand Hydro mary Indicate Surface Wa High Water Saturation (A) Water Marks Sediment De	riogy Indicators: ors (any one indicator (A1) Table (A2) A3) (B1) (Nonrivering	e) riverine)	☐ Salt Cru☐ Biotic Ci☐ Aquatic I☐ Hydroge☐ Oxidized	rust (B12) nvertebrate en Sulfide ( d Rhizosph	Odor (C1) eres along		ots (C3)	Seconda Wat Sed Drift Drai	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Type: Depth (inches marks:  DROLOG) Itland Hydro mary Indicate Surface Water Saturation (A) Water Marks Sediment Deposit	es):  Plogy Indicators:  Ors (any one indicator (A1)  Table (A2)  A3)  (B1) (Nonrivering (B2) (Nonivering (B3) (Nonrivering (B3) (Nonriver	e) riverine)	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presence	rust (B12) nvertebrate en Sulfide C d Rhizosph e of Reduc	Odor (C1) eres along ed Iron (C4	4)	ots (C3)	Seconda Wat Sed Drift Drai Dry- Thin Cray	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) vfish Burrows (C8)
Type: Depth (inches marks:  DROLOG)  Itland Hydro mary Indicate Surface Water Saturation (A Water Marks Sediment Deposit Surface Soil	es):  Plogy Indicators:  Ors (any one indicator (A1)  Table (A2)  A3)  (B1) (Nonrivering (B2) (Nonivering (B3) (Nonrivering (B3) (Nonriver	e) riverine) ne)	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc	rust (B12) nvertebrate n Sulfide C d Rhizosph e of Reduct ron Reduct	Odor (C1) eres along ed Iron (C4 tion in Plow	4)	ots (C3)	Secondi  Wat Sed Drift Drai Dry- Thin Cray	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) iration Visible on Aerial Imagery (Cs
Type: Depth (inches marks:  DROLOGY tland Hydromary Indicate Surface Water Marks) Saturation (Awater Marks) Sediment Deposit Surface Soil Inundation V	es):  Flogy Indicators:  ors (any one indicators (A1)  Table (A2)  A3)  (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonriv	e) riverine) ne)	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc	rust (B12) nvertebrate n Sulfide C d Rhizosph e of Reduct ron Reduct	Odor (C1) eres along ed Iron (C4 tion in Plow	4)	ots (C3)	Secondi  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) iration Visible on Aerial Imagery (Cs
Type: Depth (inches marks:  DROLOG) Itland Hydromary Indicate Surface Water Marks Sediment Deposit Surface Soil Inundation V Water-Staine	es):  Flogy Indicators:  ors (any one indicators (any one indicator (A1)  Table (A2)  A3)  (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonri	e) riverine) ne)	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc	rust (B12) nvertebrate n Sulfide C d Rhizosph e of Reduct ron Reduct	Odor (C1) eres along ed Iron (C4 tion in Plow	4)	ots (C3)	Secondi  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) iration Visible on Aerial Imagery (Cs
Type: Depth (inches marks:  DROLOG) Ifland Hydro mary Indicate Surface Wa High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Stained d Observati	riogy Indicators: ors (any one indicators (any one indicator) Table (A2) A3) (B1) (Nonrivering (B2) (Nonrivering (B3) (N	e) riverine) ne) agery (B7	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc	rust (B12) nvertebrate an Sulfide C d Rhizosph e of Reduc ron Reduc xplain in Re	Odor (C1) eres along ed Iron (C4 tion in Plow	4)	ots (C3)	Secondi  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) iration Visible on Aerial Imagery (Cs
Type: Depth (inches marks:  DROLOGY  tland Hydromary Indicate Surface Water Marks Sediment Deposit Surface Soil Inundation Water-Stained Observatiface Water P	diogy Indicators: ors (any one indicators: ors (any one indicators) ter (A1) Table (A2) A3) (B1) (Nonrivering eposits (B2) (Nonrivering ts (B3) (Nonrivering Cracks (B6) //isible on Aerial Imped Leaves (B9) ons: fresent? Ye	e) riverine) ne) sagery (B7	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presend ☐ Recent I ☐ Other (Ex	rust (B12) nvertebrate en Sulfide C d Rhizosph e of Reduc ron Reduc xplain in Re	Odor (C1) eres along ed Iron (C4 tion in Plow	4)	ots (C3)	Secondi  Wat Sed Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) iration Visible on Aerial Imagery (Cs
Type: Depth (inche marks:  DROLOG)  Itand Hydro mary Indicate Surface Wa High Water Saturation (A Water Marks Sediment Do Drift Deposit Surface Soil Inundation V Water-Stained Observatiface Water Prer Table Preuration Presedudes capillar	res):  Ilogy Indicators:  ors (any one indicators (any one indicators)  ter (A1)  Table (A2)  A3)  (B1) (Nonriveringe)  is (B3) (Nonriveringe)  Cracks (B6)  /isible on Aerial Imped Leaves (B9)  ons:  resent? Yesent? Yesent? Yesent? Yesent? Yesent?	e) riverine) ne) sagery (B7 s  No [ s  No [ s  No [	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc ☐ Recent I ☐ Other (Ex	rust (B12) nvertebrate en Sulfide C d Rhizosph e of Reduc ron Reduc xplain in Re : : :	Odor (C1) eres along sed Iron (C4 tion in Plow ermarks)	4) ved Soils (	ots (C3)     C6)     I	Seconda Wat Sed Drift Dry- Thin Cray Satu Shal	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) iration Visible on Aerial Imagery (Cs
Type: Depth (inches marks:  DROLOG) Stiand Hydro Mary Indicate Surface Water Marks Sediment Deposit Surface Soil Inundation V Water-Staine Id Observati face Water P ter Table Preseludes capillar	diogy Indicators: ors (any one indicators: ors (any one indicators) ors (any one indicators) (B1) (Nonrivering) eposits (B2) (Nonrivering) oracks (B6) (isible on Aerial Imped Leaves (B9) ons: oresent? yesent? yesent? yesent? yesent? yesent?	e) riverine) ne) sagery (B7 s  No [ s  No [ s  No [	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc ☐ Recent I ☐ Other (Ex	rust (B12) nvertebrate en Sulfide C d Rhizosph e of Reduc ron Reduc xplain in Re : : :	Odor (C1) eres along sed Iron (C4 tion in Plow ermarks)	4) ved Soils (	ots (C3)     C6)     I	Seconda Wat Sed Drift Dry- Thin Cray Satu Shal	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) iration Visible on Aerial Imagery (Cstlow Aquitard (D3) E-Neutral Test (D5)
Type: Depth (inche emarks:  DROLOG)  etland Hydro mary Indicate Surface Wa High Water Saturation (A Water Marks Sediment Dought Deposit Surface Soil Inundation V Water-Staine Id Observati face Water P ter Table Preseludes capillar	res):  Ilogy Indicators:  ors (any one indicators (any one indicators)  ter (A1)  Table (A2)  A3)  (B1) (Nonriveringe)  is (B3) (Nonriveringe)  Cracks (B6)  /isible on Aerial Imped Leaves (B9)  ons:  resent? Yesent? Yesent? Yesent? Yesent? Yesent?	e) riverine) ne) sagery (B7 s  No [ s  No [ s  No [	☐ Salt Cru ☐ Biotic Ci ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presenc ☐ Recent I ☐ Other (Ex	rust (B12) nvertebrate en Sulfide C d Rhizosph e of Reduc ron Reduc xplain in Re : : :	Odor (C1) eres along eed Iron (C4 tion in Plow emarks)	4) ved Soils (	ots (C3)     C6)     I	Seconda Wat Sed Drift Dry- Thin Cray Satu Shal	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) /fish Burrows (C8) iration Visible on Aerial Imagery (Cstlow Aquitard (D3) E-Neutral Test (D5)

Project/Site: Hermiston LWI City/Cou	nty: Hermiston Samplin	g Date: 7/31	/12	
Applicant/Owner: State: OR	Sampling Point: 47			
Investigator(s): MRS Section, T	Fownship, Range: T4N, F	R28E, B000		
Landform (hillslope, terrace, etc.): Swale	a Local relief (concave,	convex, nor	ie): Concave Slo	pe (%):0-3%
Subregion (LRR):D Lat: 45.8405	Long: -119.3291	Datum:	,	F = (10)10 = 10
Soil Map Unit Name: Xerfluvents NWI o	, and the second			
Are climatic / hydrologic conditions on the		o of year?	V no 157 Min [7] //4	ma avalata in Danasaka )
Are Vegetation □, Soil □, or Hydrology				
				mstances" present? Yes 🛛 No 🗍
Are Vegetation □, Soil □, or Hydrology		,		any answers in Remarks.)
SUMMARY OF FINDINGS – A	itach site map sho	wing sar	npling point I	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes ⊠ No 🗆		Is the Sample	d Агеа
Hydric Soil Present?	Yes 🛭 No 🗌		within a Wetla	
Wetland Hydrology Present?	Yes ⊠ No 🗌	***************************************	Willia Willia	
Remarks:old drainage ditch for irrigatio	n runoff			
VEGETATION				
Tree Stratum (Plot size: 30)		solute Dor er Species	ninant Indicator	Dominance Test worksheet:
1.		SI SECOLO.	1 7	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 1 (8)
4.				_ ` '
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
0 15 (0) 1 0 (0)	Total Cover:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')				Total % Cover of:Multiply by:
1.				OBL species x1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
0.				UPL speciesx 5 =
Herb Stratum (Plot size: 5')	Total Cover:	····		Column Totals: (A)
1.Sisymbrium altissimum	10	1	FACU	Previolence Index - D/A -
2.Cirsium arvense	65		FAC	Prevalence Index = B/A =
3.Polygonum sp.	10			Dominance Test is >50%
4.Lactuca sp.	1		FAC	Prevalence Index is =3.0 <sup>1</sup>
5.Typha latifolia	t		OBL	Morphological Adaptations¹ (Provide supporting
6.				data in Remarks or on a separate sheet)
7.				Problematic Hydrophytic Vegetation¹ (Explain)
8.				The desired section of the desired section of
	<u></u>	L		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
	Total Cover: 86			
Woody Vine Stratum (Plot size: 5')				Hydrophytic
1.				Vegetation
2.	Total Course			Present? Yes No No
	Total Cover:			Remarks:
% Bare Ground in Herb Stratum	14 % Cover of	Biotic Crust	<u>.</u>	

Depth	Matrix			Redox Feat	ures				
(inches)	Color (moist)	%%	Color (mois	t) %	<u>Typ</u>	e <sup>1</sup> Loc²	<u>Text</u>	ure	Remarks
0-5	2.5Y3/2	100					SL		
5-16	2.5Y3/2	98	2.5Y3/3	2	С	M	S		
-, - , · · · · · · · · · · · · · · · · ·									
***************************************									
	k	·			<del></del>		.l		
	ncentration, D=Dep					Pore Lining		,_,_,	el, M=Matrix.
-	ndicators: (Applic	able to all			noted.)				for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol			☐ Sandy F						uck (A9) (LRR C)
☐ Histic Ep ☐ Black His	oipedon (A2)		☐ Strippe	d Matrix (S					ck (A10) ( <b>LRR B</b> ) d Vertic (F18)
	en Sulfide (A4)			Gleyed Ma					rent Material (TF2)
	Layers (A5) (LRR	C)		ed Matrix (F					Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )		☐ Redox	Dark Surfac	ce (F6)				
	Below Dark Surface	e (A11)		ed Dark Sur					
	k Surface (A12) ucky Mineral (S1)		☐ Redox ☐ Vernal F		s (F8)		المدا3	ambana n	of hardware harting a material and a
	eyed Matrix (S4)		Li vernar	-00is (re)					of hydrophytic vegetation and hydrology must be present.
	ayer (if present):								, , , , , , , , , , , , , , , , , , ,
Type:									
Daniel # 1	L X.						1		
Depth (inch	nes):						Hydri	ic Soil F	Present? Yes⊠ No 🗌
Remarks:	changes in the wet	lands hydro	ology the area n	now has we	tland hyd	rology and th	ne soils ha	ve not h	nad a chance to form wetland
Remarks:	changes in the wet	ilands hydro	ology the area n in 2013, intentic	now has we onally put a	tiand hyd hole in a	rology and th	ne soils ha	ve not h	Present? Yes ⊠ No □  nad a chance to form wetland g water to flow when irrigation water is
Remarks:  Due to recent characteristics resent.	changes in the wet s. The Bureau of Re	eclamation i	ology the area n in 2013, intentic	now has we	tiand hydi hole in a	rology and th irrigation sy	ne soils ha	ve not h	nad a chance to form wetland
Remarks: Due to recent sharacteristics resent.  YDROLOG Vetland Hydr	changes in the wets. The Bureau of Re	eclamation	in 2013, intentic	now has we	tiand hyd hole in a	rology and th	ne soils ha	ve not hallowing	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required)
Remarks: Due to recent sharacteristics bresent.  YDROLOG Vetland Hydr Primary Indica	changes in the wets. The Bureau of Res	eclamation	in 2013, intentio	onally put a	tiand hydi hole in a	rology and th	ne soils ha	ve not hallowing	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) tter Marks (B1) (Riverine)
Remarks: Due to recent characteristics present.  YDROLOG Vetland Hydr Primary Indica  Surface W	changes in the wets. The Bureau of Research  SY rology Indicators: ators (any one indicators (A1)	eclamation	in 2013, intentio	nally put a	hole in a	rology and th	ne soils ha	ve not hallowing	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) tter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Remarks: Due to recent characteristics present.  YDROLOG Vetland Hydromary Indication Surface W High Wate	changes in the wet s. The Bureau of Re  SY  rology Indicators: ators (any one indicators (A1) ar Table (A2)	eclamation	cient)  Salt C	rust (B11) Crust (B12)	hole in a	irrigation sy	ne soils ha	Second  Wallowing	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Remarks: Due to recent characteristics resent.  YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation	changes in the wet s. The Bureau of Res. The Bureau	ator is suffice	cient)  Salt C	rust (B11) Crust (B12)	hole in a	irrigation sy	ne soils ha	Second  Second  Drit	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Remarks: Due to recent characteristics present.  YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark	changes in the wets. The Bureau of Research of Researc	ator is sufficient	cient)  Salt Ci  Biotic  Aquatic	rust (B11) Crust (B12) c Invertebra	hole in a	irrigation sy	ne soils ha	Second  Wa  Drift  Dry	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) c-Season Water Table (C2)
Remarks: Due to recent tharacteristics tresent.  YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark	changes in the wets. The Bureau of Research of Researc	ator is sufficiency	cient)  Salt C  Biotic  Aquatic  Hydrog  Oxidiz	rust (B11) Crust (B12) c Invertebra gen Sulfide ed Rhizosp	hole in a tes (B13) Odor (C1 heres alo	irrigation syl	ne soils ha	Second  Second  Drit  Dry  Thir	dary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) 7-Season Water Table (C2) in Muck Surface (C7)
Remarks: Due to recent characteristics present.  YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos	changes in the wets. The Bureau of Research of Researc	ator is sufficiency	cient) Salt C Biotic Aquatic Hydros Oxidize	rust (B11) Crust (B12) Crust (B12) Clayertebra gen Sulfide ed Rhizosp	nole in a  tes (B13) Odor (C1 heres alo uced Iron	irrigation syl	ne soils ha	Second  Wa  Sec  Drit  Dry  Thir	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) atter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) at Deposits (B3) (Riverine) at Deposits (B10) at Patterns (B10)
Remarks: Due to recent characteristics or esent.  YDROLOG  Vetland Hydromary Indication of Saturation of Saturation of Sediment Its Sediment Its Surface Solurface Sol	changes in the wets. The Bureau of Research of Researc	ator is sufficient	cient) Salt C Biotic Aquatic Hydros Oxidize Preser	rust (B11) Crust (B12) Crust (B12) Clayertebra gen Sulfide ed Rhizosp	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	ne soils ha	Second  Second  Second  Drit  Dra  Dry  Thir  Cra  Sat	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (-Season Water Table (C2) in Muck Surface (C7) syfish Burrows (C8) iuration Visible on Aerial Imagery (C9)
Remarks: Due to recent tharacteristics resent.  YDROLOG Vetland Hydr Surface W High Wate Saturation Water Mark Sediment I Drift Depos I Surface Sc Inundation	changes in the wets. The Bureau of Research of Researc	ator is sufficient	cient) Salt C Biotic Aquatic Hydros Oxidize Preser	rust (B11) Crust (B12) c Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	ne soils ha	Second  Second  Second  Drit  Dra  Dry  Thir  Cra  Sat	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) atter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) at Deposits (B3) (Riverine) at Deposits (B10) at Patterns (B10)
Remarks: Due to recent tharacteristics resent.  YDROLOG Vetland Hydr Surface W High Wate Saturation Water Mark Sediment I Drift Depos I Surface Sc Inundation	changes in the wet s. The Bureau of Res. Table (A1) or Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonrivering It (B3) (Nonrivering It	ator is sufficient	cient) Salt C Biotic Aquatic Hydros Oxidize Preser	rust (B11) Crust (B12) c Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	ne soils ha	Second  Second  Second  Drit  Dra  Dry  Thir  Cra  Sat	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) suration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Remarks: Due to recent tharacteristics resent.  YDROLOG  Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark Drift Depos Surface So Inundation Water-Stai	changes in the wets. The Bureau of Research of Researc	ator is sufficiency in in in in in in in in in in in in in i	cient) Salt C Biotic Aquatic Hydros Oxidize Preser	rust (B11) Crust (B12) c Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	ne soils ha	Second  Second  Second  Drit  Dra  Dry  Thir  Cra  Sat	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) suration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Remarks: Due to recent characteristics or sent.  YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Surface So Inundation Water-Stail	changes in the wet s. The Bureau of Res. (At 1) (	ator is sufficiency ine) inagery (B7)	cient) Salt C Salt C Aquatic Hydros Oxidiz Preser Recen Other (	rust (B11) Crust (B12) c Invertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	ne soils ha	Second  Second  Second  Drit  Dra  Dry  Thir  Cra  Sat	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) suration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Remarks: Due to recent tharacteristics or esent.  YDROLOG  Vetland Hydromary Indication Surface William Water Mark Sediment In Drift Deposition of Surface Scillandation Water-Stailield Observaturface Water Vater Table Proceeding Indication Presenciation	changes in the wets. The Bureau of Research SY  rology Indicators: ators (any one indicators (any one indicators (any one indicators (A3)) ks (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6)) Visible on Aerial Indicators: Visible on Aerial Indicators: Present?  Present?  Yesent?	ator is sufficiency ine) ine) inagery (B7) es  No  es  No  es	cient) Salt C Biotic Aquatic Hydrog Oxidiz Preser Recen Other ( Depth (inches	rust (B11) Crust (B12) Crust (B12) Clavertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	pots (C3)	Second Wa Sec Drit Dra Thir Cra Sat FAC	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) suration Visible on Aerial Imagery (C9 allow Aquitard (D3)
Remarks: Due to recent tharacteristics or esent.  YDROLOG  Vetland Hydromary Indication Surface William Water Mark Sediment In Drift Deposition of Surface Scillandation Water-Stailield Observaturface Water Vater Table Proceeding Indication Presenciation	changes in the wet s. The Bureau of Res. (any one indicators (any one indicators (A1) (A3) (Nonrivering Deposits (B2) (Nonrivering Cracks (B3) (Nonrivering Cracks (B6) (Visible on Aerial Indicators:  Present? Yesent? Yesent? Yesent? Yesent?	ator is sufficiency ine) ine) inagery (B7) es  No  es  No  es	cient) Salt C Biotic Aquatic Hydrog Oxidiz Preser Recen Other ( Depth (inches	rust (B11) Crust (B12) Crust (B12) Clavertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	pots (C3)	Second Wa Sec Drit Dra Thir Cra Sat FAC	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (P. Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) suration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Remarks: Due to recent tharacteristics or esent.  YDROLOG  Vetland Hydromary Indication Surface William Water Mark Sediment In Drift Deposition of Surface Scillandation Water-Stailield Observaturface Water Vater Table Proceeding Indication Presenciation	changes in the wets. The Bureau of Research SY  rology Indicators: ators (any one indicators (any one indicators (any one indicators (A3)) ks (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6)) Visible on Aerial Indicators: Visible on Aerial Indicators: Present?  Present?  Yesent?	ator is sufficiency ine) ine) inagery (B7) es  No  es  No  es	cient) Salt C Biotic Aquatic Hydrog Oxidiz Preser Recen Other ( Depth (inches	rust (B11) Crust (B12) Crust (B12) Clavertebra gen Sulfide ed Rhizosp nce of Redu t Iron Redu Explain in F	tes (B13) Odor (C1 heres alo uced Iron ction in P	irrigation syl	pots (C3)	Second  Second  Wa  Sec  Drit  Dra  Thir  Cra  Sat  FAC	nad a chance to form wetland g water to flow when irrigation water is dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) (P. Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) suration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermis	ston Sampling Date	: 7/31/	12		
Applicant/Owner: State: OR Sampling I	Point: 48				
Investigator(s): MRS Section, Township, I	Range: T4N, R28E,	B000			
Landform (hillslope, terrace, etc.): swale Local re	ief (concave, conve	x, non	e): Concave Slo	pe (%):3-6%	
Subregion (LRR):D Lat: 45.8405 Long: -1	19.3291 Datur	n:			
Soil Map Unit Name: Xerofluvents NWI classificat	on:				
Are climatic / hydrologic conditions on the site typic		ar? Y	'es⊠No∏ (Ifa	no explain in Remarks \	
Are Vegetation □, Soil □, or Hydrology □ signifi	-			nstances" present? Yes ⊠ N	no [ <sup>m</sup> ]
Are Vegetation , Soil , or Hydrology and natura	•			any answers in Remarks.)	о <u>гл</u>
SUMMARY OF FINDINGS – Attach sit	•	•		•	portant features, etc.
	-				
Hydrophytic Vegetation Present? Yes ⊠			Is the Sampled	i Area	
Hydric Soil Present? Yes ⊠  Wetland Hydrology Present? Yes ⊠			within a Wetla	nd? Yes⊠ No 🗀	1
Remarks:	NO E.J	l			
VEGETATION					
Tues Chrotium (Diet dies) 20)	Absolute		ninant Indicator	Dominance Test workshee	
Tree Stratum (Plot size: 30)	<u>% Cover S</u>	pecies	r status	Number of Dominant Specie That Are OBL, FACW, or FA	
2.		-			
3.		-		Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
4.		-			
		<u> </u>		Percent of Dominant Specier That Are OBL, FACW, or FA	s (C: 100 (A/B)
Тс	tal Cover:			Prevalence Index workshe	
Sapling/Shrub Stratum (Plot size: 5').				Total % Cover of:	
1.					x1=
2.		<u> </u>		FACW species	
3.		ļ		1	x3=
4.		-		FACU species	x 4 =
5.				UPL species	x 5 =
	tal Cover:			Column Totals:(B)	(A)
Herb Stratum (Plot size: 5')	55	T ,,	FACW	Prevalence Index = B/	/A
1.Phalaris arundinacea 2.Cirsium arvense	1	×	FACU	Hydrophytic Vegetation In	
3.	1		1700	□ Dominance Test is >5	
4.				Prevalence Index is =	=3.0 <sup>1</sup>
5.		-		Morphological Adapta	
6.				data in Remarks or c	,
7.		<b>†</b>		Problematic Hydroph	nytic Vegetation¹ (Explain)
8.				¹Indicators of hydric soil and	I watland hydrology must
				be present.	wodana nyarotogy must
	tal Cover: <u>56</u>				
Woody Vine Stratum (Plot size: 5')				Hydrophytic	
1.				Vegetation Present? Yes	⊠ No _□
2.	tal Cover:				
		_ ^		Remarks:	
9/ Para Ground in Herh Stratum 44	% Cover of Bioti	c Crus	iT	1	

_	_	••
•	11	F1
J	v	14

Sampling Point: 48

Depth	Matrix			dox Featu		-1 1 -2		.4	D ava auto	
(inches)	Color (moist)	%	Color (moist)	%_	Typ			kture	Remarks	
0-16	2.5Y3/2	90	10YR3/4	10	С	M	SL			
					<b>-</b>					
		II,.		<b>L.</b> ,	.1			******		
	ncentration, D=De			<sup>2</sup> Locati	on: PL=	Pore Lining	g, RC≕Roo	ot Chann	el, M=Matrix.	
	ndicators: (Applic	cable to all L	RRs, unless ot	nerwise n	oted.)		ind	icators 1	for Problematic Hydric	Soils <sup>3</sup> :
Histosol			Sandy Re						uck (A9) ( <b>LRR C</b> )	
	ipedon (A2)		Stripped I	,					ck (A10) ( <b>LRR B</b> )	
☐ Black His ☐ Hydroge	stic (A3) n Sulfide (A4)		Loamy M	•					d Vertic (F18)	
	Layers (A5) (LRR	C)	☐ Loamy Gl ☐ Depleted						rent Material (TF2) Explain in Remarks)	
	k (A9) (LRR D)	•,	☐ Redox Da				اسمة	Other (E	Apialii III (Veilialks)	
	Below Dark Surfac	e (A11)	☐ Depleted							
	k Surface (A12)		☐ Redox De	pressions	(F8)					
	cky Mineral (S1)		Vernal Por	ols (F9)			<sup>3</sup> lnc	dicators o	of hydrophytic vegetation	and
	eyed Matrix (S4)							wetland l	hydrology must be preser	nt.
	ayer (if present):									
Type:										
Depth (Inch Remarks:	ies):	******					Hyd	ric Soil F	Present? Yes 🛭 No	
VDDOLOG	·V									
YDROLOG										
-	ology Indicators:		23						dary Indicators (2 or more	
	tors (any one indic	ator is sufficie		. /=		w./			ter Marks (B1) (Riverine	•
☐ Surface W ☐ High Wate			☐ Salt Crus	, ,					diment Deposits (B2) (Riv	
☐ Trigit Wate	, ,		☐ Biotic Cr		(D40)				ft Deposits (B3) (Rivering	<b>∌</b> )
	s (B1) (Nonriverir	۱۵۱	☐ Aquatic Ir ☐ Hydrogei		, ,	١			inage Patterns (B10)	2)
	Deposits (B2) ( <b>No</b> n	•	☐ Oxidized			-	loote (C3)		r-Season Water Table (C: n Muck Surface (C7)	2)
	sits (B3) (Nonriver	•	☐ Presence				10013 (00)		yfish Burrows (C8)	
	il Cracks (B6)	,	☐ Recent in				s (C6)		uration Visible on Aerial I	magani (Co
	Visible on Aerial Ir	nagery (B7)	Other (Ex				, (00)		allow Aquitard (D3)	magery (C9
_	ned Leaves (B9)		· · · · · · · · · · · · · · · · · · ·		/				C-Neutral Test (D5)	
ield Observa	tions:									
urface Water	Present? Ye	es 🗌 No 🖾	Depth (inches):							
/ater Table Pr			Depth (inches):							
aturation Pres	sent? Ye		Depth (inches):			W	etland Hy	drology	Present? Yes⊠ No	
ncludes capilla escribe Reco	ary fringe) rded Data (stream	gauge monit	oring well serie	I photoe r	revious					
	300 (00000)	ando, mont	oney won, acid	i priotos, t	vi e AIONZ	niohactiniti	a), n availê	ine.		
emarks:	· · · · · · · · · · · · · · · · · · ·	·····						***************************************		
ld drainage sw	/ale for irrigation. \	water turned	off,							
	-									

Project/Site: Hermiston LWI City/County	: Hermiston Sampl	ling Date: 7/31/	12		
Applicant/Owner: State: OR Sa	mpling Point: 49				
Investigator(s): MRS Section, Tow	vnship, Range: T4N	N, R28E, B000			
Landform (hillslope, terrace, etc.): Swale L	_ocal relief (concav	e, convex, none	e): Concave Slop	oe (%):3-6%	
	Long: -119.3291	Datum:		<b>,</b>	
Soil Map Unit Name: Xerofluvents NWI cla	-				
Are climatic / hydrologic conditions on the		ime of year? V	es 521 No [7] //fi	no, evolain in Remarks \	
· -			,		
Are Vegetation ☐, Soil ☐, or Hydrology ☐	-			nstances" present? Yes 🗵 No 🔲	
Are Vegetation ☐, Soil ☐, or Hydrology ☐	_ naturally problem	iatic? (if	needed, explain	any answers in Remarks.)	
SUMMARY OF FINDINGS – Atta	ch site map sh	howing sam	pling point l	ocations, transects, import	ant features, etc.
Hydrophytic Vegetation Present?	Yes 🗌 No 🗌		Is the Sampled	l Area	
	Yes 🛛 No 🔲		within a Wetlar		
	Yes ☐ No 🏻				
Remarks:					
VEGETATION			,		
7 (0) (0)	· ·		inant Indicator	Dominance Test worksheet:	ALL THE STATE OF T
Tree Stratum (Plot size: 30)		over Species	? Status	Number of Dominant Species	(4)
1.				That Are OBL, FACW, or FAC:	(A)
2.				Total Number of Dominant	/D)
3.				Species Across All Strata:	(B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
	Total Cover:	*****************		Prevalence Index worksheet:	` '
Sapling/Shrub Stratum (Plot size: 5')				Total % Cover of:	Multiply by:
1.				OBL species	
2.				FACW species	······
3.					x3=
4.				FACU species	
5.				i i	x 5 =
	Total Cayon			Column Totals:	(A)
Herb Stratum (Plot size: 5')	Total Cover: _			(B)	
1.				Prevalence Index = B/A =	
2.				Hydrophytic Vegetation Indicate	ors:
3.				Dominance Test is >50%	
4.				Prevalence Index is =3.01	1
5.				Morphological Adaptations data in Remarks or on a s	
6.				Problematic Hydrophytic \	•
7.					(
8.				Indicators of hydric soil and wetla	and hydrology must
	T-4-1-0			be present.	
Woody Vine Stratum (Plot size: 5')	Total Cover:				
1.				Hydrophytic Vegetation	
2.				Present? Yes	No
	Total Cover:			Remarks; n/a - no water. Litter.	Dead Typha latifolia
% Bare Ground in Herh Stratum	% C	over of Biotic C	crust	Tolliamorina III materi altoli	= · )

1		
٠		

Depth (inches)	Matrix Color (moist)	%	Color (moist	Redox Feat	Туре	e <sup>1</sup> Loc <sup>2</sup>	Text	ure	Remarks
0-14	2.5Y3/2	80	10YR3/4	20	С	M	LS		
***************************************									
							<del> </del>		
***************************************							<u> </u>		I
Type: C=Co	ncentration, D=D	epletion, RM	=Reduced Matrix	k. <sup>2</sup> Loca	tion: PL≔	Pore Linina.	RC≔Root	Channe	el, M=Matrix.
	ndicators: (Appl								or Problematic Hydric Soils <sup>3</sup> :
☐ Histosol	(A1)		🛚 Sandy R	edox (S5)				cm Mu	ick (A9) (LRR C)
	pipedon (A2)			l Matrix (S					ck (A10) (LRR B)
Black His			Loamy!						d Vertic (F18)
	n Sulfide (A4) Layers (A5) ( <b>LR</b> f	. C/	Loamy	-					ent Material (TF2)
	ck (A9) ( <b>LRR D</b> )	(0)		d Matrix (F Dark Surfac			£l (	Just (E	xplain in Remarks)
	Below Dark Surfa	ce (A11)		d Dark Sur					
-	k Surface (A12)	, ,		epression					
	icky Mineral (S1)		☐ Vernal P	ools (F9)			³Indi	cators o	f hydrophytic vegetation and
	eyed Matrix (S4)						w	etiand h	ydrology must be present.
	ayer (if present):								
Type:									
							F		
Depth (inch Remarks:	nes):						Hydri	c Soil F	Present? Yes ⊠ No □
Remarks:							Hydri	c Soil F	Present? Yes ⊠ No □
Remarks:	;Y								
Remarks: YDROLOG Vetland Hydr	≩Y rology Indicators		(oliopt)					Second	lary Indicators (2 or more required)
Remarks:  YDROLOG  Vetland Hydr  'rimary Indica	SY ology Indicators tors (any one ind			(5)41				Second	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> )
YDROLOG Vetland Hydr Primary Indica  Surface Wi	SY ology Indicators tors (any one indicator (A1)		☐ Salt Cr					Second Wa	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) timent Deposits (B2) ( <b>Riverine</b> )
YDROLOG Vetland Hydr Primary Indica Surface Wi	ology Indicators tors (any one ind ater (A1) r Table (A2)		☐ Salt Cr ☐ Blotic C	Crust (B12)				Second  Wa Sec	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
YDROLOG Vetland Hydr Primary Indica Surface With High Water Saturation (	ology Indicators tors (any one indicator (A1) Table (A2)	icator is suffi	☐ Salt Cr ☐ Biotic C ☐ Aquatic	Crust (B12) Invertebra	tes (B13)			Second  Wa  Sec	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
YDROLOG Vetland Hydr Primary Indicat Surface With High Water Saturation ( Water Mark	rology Indicators tors (any one ind later (A1) r Table (A2) (A3) (S (B1) (Nonriver	icator is suffi	☐ Salt Cr ☐ Blotic C ☐ Aquatic ☐ Hydrog	Crust (B12) Invertebra en Sulfide	tes (B13) Odor (C1			Second  Wa  Sec  Driff  Dra  Dry	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
YDROLOG Vetland Hydr Primary Indica Surface Wood High Water Saturation ( Water Mark Sediment [	ology Indicators tors (any one indicator (A1) Table (A2) (A3) (S (B1) (Nonriver	icator is suffi ine) portiverine)	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize	Crust (B12) Invertebra en Sulfide d Rhizosp	tes (B13) Odor (C1) heres alor	ng Living Ro		Second  Wa  Sec  Drift  Dra  Dry  Thin	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
YDROLOG Vetland Hydr Primary Indica Surface Will High Water Saturation ( Water Mark Sediment [ Drift Depos	rology Indicators tors (any one ind later (A1) r Table (A2) (A3) (S (B1) (Nonriver	icator is suffi ine) portiverine)	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu	tes (B13) Odor (C1) heres alor iced Iron (	ng Living Ro	oots (C3)	Second  Wa  Sec  Drif  Dra  Dry  Thin	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
YDROLOG Vetland Hydr Primary Indica Surface Wi High Water Saturation ( Water Mark Sediment [ Drift Depos	ology Indicators tors (any one indicator (A1) r Table (A2) (A3) (S (B1) (Nonriver Deposits (B2) (No	icator is suffi ine) onriverine) erine)	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pl	ng Living Ro C4)	oots (C3)	Second Wa Sec Driff Dra Thin Cra Sat	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
YDROLOG Vetland Hydr Primary Indica Surface Wi High Water Saturation ( Water Mark Sediment [ Drift Deposed Inundation	rology Indicators tors (any one indicator (A1) r Table (A2) (A3) ss (B1) (Nonriver Deposits (B2) (No sits (B3) (Nonriver) oil Cracks (B6)	icator is suffi ine) onriverine) erine)	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pl	ng Living Ro C4)	oots (C3)	Second  Wa Sec Drif Dra Dry Thin Cra Sat Sha	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
YDROLOG Vetland Hydr Primary Indica Surface Wi High Water Saturation ( Water Mark Sediment [ Drift Deposed Inundation	rology Indicators tors (any one indicator (A1) or Table (A2) (A3) os (B1) (Nonriver Deposits (B2) (Nosits (B3) (Nonriver bil Cracks (B6) Visible on Aerial	icator is suffi ine) onriverine) erine)	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pl	ng Living Ro C4)	oots (C3)	Second  Wa Sec Drif Dra Dry Thin Cra Sat Sha	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3)
YDROLOG Vetland Hydr Primary Indicat Surface With Saturation ( Water Mark Sediment [ Drift Deposition Surface So Inundation Water-Stain	tors (any one ind ater (A1) r Table (A2) (A3) (S (B1) (Nonriver Deposits (B2) (No sits (B3) (Nonrive bil Cracks (B6) Visible on Aerial ned Leaves (B9)	icator is suffi ine) onriverine) erine) Imagery (B7	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pl	ng Living Ro C4)	oots (C3)	Second  Wa Sec Drif Dra Dry Thin Cra Sat Sha	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3)
YDROLOG Vetland Hydr Primary Indica Surface Will High Water Saturation ( Water Mark Sediment [ Drift Deposition Surface So Inundation Water-Stain	tors (any one indicators (any one indicators (A1) r Table (A2) (A3) ss (B1) (Nonriver Deposits (B2) (Nonriver) clic (B3) (Nonriver) visible on Aerial (Notators) red Leaves (B9) tions:	ine) portiverine) erine) Imagery (B7	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent ☐ Other (E	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pl	ng Living Ro C4)	oots (C3)	Second  Wa Sec Drif Dra Dry Thin Cra Sat Sha	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3)
YDROLOG Vetland Hydr Primary Indica Surface Will Saturation ( Water Mark Sediment D Drift Depose Inundation Water-Stain Water-Stain ield Observa urface Water /ater Table Presencludes capilla	tors (any one indicators (any one indicators (A1) r Table (A2) (A3) ss (B1) (Nonriver Deposits (B2) (Nonriver) coll Cracks (B6) Visible on Aerial ned Leaves (B9) tions: Present? resent? sent? ary fringe)	ine) porriverine) erine) Imagery (B7 Yes  No [ Yes  No [	Salt Cr Biotic C Aquatic Hydrog Oxidize Presen Recent Other (E) Depth (inches	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pi Remarks)	g Living Ro C4) owed Soils (	ots (C3) (C6)	Second Wa Sec Drif Dra Dry Thin Cra Sat Sha FAC	lary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3)
YDROLOG Vetland Hydr Primary Indica Surface Will Saturation ( Water Mark Sediment D Drift Depose Inundation Water-Stain Water-Stain ield Observa urface Water /ater Table Presencludes capilla	rology Indicators tors (any one indicators (any one indicator (A1) r Table (A2) (A3) (S (B1) (Nonriver Deposits (B2) (Noriver Sits (B3) (Nonriver Sits (B3) (Nonriver Sits (B6) Visible on Aerial ned Leaves (B9) Itions: Present? resent?	ine) porriverine) erine) Imagery (B7 Yes  No [ Yes  No [	Salt Cr Biotic C Aquatic Hydrog Oxidize Presen Recent Other (E) Depth (inches	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pi Remarks)	g Living Ro C4) owed Soils (	ots (C3) (C6)	Second Wa Sec Drif Dra Dry Thin Cra Sat Sha FAC	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indica Surface Will Saturation ( Water Mark Sediment D Drift Depose Inundation Water-Stain Water-Stain ield Observa urface Water /ater Table Presencludes capilla	tors (any one indicators (any one indicators (A1) r Table (A2) (A3) ss (B1) (Nonriver Deposits (B2) (Nonriver) coll Cracks (B6) Visible on Aerial ned Leaves (B9) tions: Present? resent? sent? ary fringe)	ine) porriverine) erine) Imagery (B7 Yes  No [ Yes  No [	Salt Cr Biotic C Aquatic Hydrog Oxidize Presen Recent Other (E) Depth (inches	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pi Remarks)	g Living Ro C4) owed Soils (	ots (C3) (C6)	Second Wa Sec Drif Dra Dry Thin Cra Sat Sha FAC	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indica Surface Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain ield Observa urface Water /ater Table Pr aturation Pres noludes capilla escribe Recon	tors (any one indicators (any one indicators (A1) r Table (A2) (A3) (S (B1) (Nonriver Deposits (B2) (Nonriver) Dil Cracks (B6) Visible on Aerial and Leaves (B9) tions: Present? resent? sent? ary fringe) rded Data (strear	ine) ine) ine) inei) ine) inagery (B7 Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent ☐ Other (E ☑ Depth (inches ☑ Depth (inches ☑ Depth (inches	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pi Remarks)	g Living Ro C4) owed Soils (	ots (C3) (C6)	Second Wa Sec Drif Dra Dry Thin Cra Sat Sha FAC	lary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indica Surface Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain ield Observa urface Water /ater Table Pr aturation Pres noludes capilla escribe Recon	tors (any one indicators (any one indicators (A1) r Table (A2) (A3) ss (B1) (Nonriver Deposits (B2) (Nonriver) coll Cracks (B6) Visible on Aerial ned Leaves (B9) tions: Present? resent? sent? ary fringe)	ine) ine) ine) inei ine) inagery (B7 Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [ Yes  No [	☐ Salt Cr ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen ☐ Recent ☐ Other (E ☑ Depth (inches ☑ Depth (inches ☑ Depth (inches	Crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Explain in F	tes (B13) Odor (C1) heres alor iced Iron ( ction in Pi Remarks)	g Living Ro C4) owed Soils (	ots (C3) (C6)	Second Wa Sec Drif Dra Dry Thin Cra Sat Sha FAC	lary Indicators (2 or more required) ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) it Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/Coun Applicant/Owner: State: OR S		pling Date	e: 7/31	/12	
	Sampling Point: 50				
	ownship, Range: T4				
Landform (hillslope, terrace, etc.): Swale				ie): Concave Si	lope (%):3-6%
Subregion (LRR):D Lat: 45.8405	Long: -119.3291	Datu	m:		
Soil Map Unit Name: Xerofluvents NWI of	lassification:				
Are climatic / hydrologic conditions on the	site typical for this	time of y	ear? Y	′es 🛛 No 🔲 (If	no, explain in Remarks.)
Are Vegetation □, Soil □, or Hydrology	☐ significantly dist	urbed?	Ar	e "Normal Circu	mstances" present? Yes ⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology	naturally probler	matic?			n any answers in Remarks.)
SUMMARY OF FINDINGS - Att	ach site map s	howing		•	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes⊠ No 🗌			Is the Sample	d Area
Hydric Soil Present?	Yes ☐ No 🔯			within a Wetla	
Wetland Hydrology Present? Remarks:	Yes □ No 🏻				
Remarks.					
VEGETATION					
Tree Stratum (Plot size: 30)		Absolute		inant Indicator	Dominance Test worksheet:
1. (Flot \$126, 30)	<u>76 (</u>	<u> ⊃over S</u>	pecies	? Status	Number of Dominant Species
2.					That Are OBL, FACW, or FAC: 1 (A)
3.			<u> </u>		Total Number of Dominant
4.					Species Across All Strata: 1 (B)
					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Conline/Chruth Ctratum (Blat aire, El)	Total Cover:				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')  1.		Γ	<del></del>		Total % Cover of: Multiply by:
2.					OBL species x 1 =
3.			ļ		FACW speciesx 2 =
4.			-		FAC species x 3 =
5.					FACU species x 4 =
J.					UPL speciesx 5 =
Herb Stratum (Plot size: 5')	Total Cover:				Column Totals: (A)
1.Phalaris arundinacea		100	Ιx	FACW	Prevalence Index = B/A =
2.			<del>  ^</del>	17.00	Hydrophytic Vegetation Indicators:
3.					□    □    □    □    □    □    □
4.			-		Prevalence index is =3.01
5.					Morphological Adaptations¹ (Provide supporting
6.			<del> </del>		data in Remarks or on a separate sheet)
7.			-		Problematic Hydrophytic Vegetation¹ (Explain)
8.					
			<u> </u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
	Total Cover:	100			
Woody Vine Stratum (Plot size: 5')					Hydrophytic
1.					Vegetation
2.					Present? Yes No No
	Total Cover:				Remarks:
% Bare Ground in Herb Stratum0	% Cover	of Biotic	Crust		

SOIL	SSEANCEACHANNA (NEW YORK) (NEW YORK) (NEW YORK)			ANATATOA YANG TALLILLA LALLI				an aanaan kanaan ka ka ka ka ka ka ka ka ka ka ka ka ka	Sampling Point:	50
Profile Descrip	ption: (Describe	to the depth	needed to doc	cument the	e indicato	r or confi	irm the a	bsence	of indicators.)	
Depth	Matrix			dox Featu	res					
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc²	<u>Te</u>	xture	Remarks	
0-18	2.5Y3/2	100					S	,		
					1	<del> </del>				
				-		<del> </del>	+			
				<del> </del>			-			
					ļ	ļ	-			
					<u> </u>	<u> </u>	<u>.l</u>			
Type: C=Con	centration, D≕Dep	alation RM=F	Poduced Matrix	21 ocati	on PlaP	ere Linina	. BC=B0	ot Chann	nel, M=Matrix.	
	dicators: (Applic					ore citiing.			for Problematic Hydric	Soils <sup>3</sup> :
☐ Histosol (A			☐ Sandy Red		· · · · · · · · · · · · · · · · · · ·				luck (A9) (LRR C)	
1	pedon (A2)		Stripped N		)				uck (A10) (LRR B)	
☐ Black Hist			Loamy Mu					Reduce	ed Vertic (F18)	
	Sulfide (A4)		Loamy Gl						rent Material (TF2)	
	ayers (A5) (LRR (	C)	Depleted					Other (F	Explain in Remarks)	
Ł .	(A9) (LRR D)	- /٨٨٨\	☐ Redox Da							
5	elow Dark Surface Surface (A12)	3 (AT1)	☐ Depleted I							
	ky Mineral (S1)		☐ Vernal Poo		(1-0)		3ln	dicators	of hydrophytic vegetation	and
☐ Sandy Gley			<b>_</b>	,					hydrology must be preser	
Restrictive Lay	yer (if present):	***************************************					T			
Type:										
Depth (inche	s):						Hyd	iric Soil	Present? Yes 🗌 No	
Remarks:										
adjacent to river	r ~ 10 feet above.									
HYDROLOGY	r									
Wetland Hydro	logy Indicators:					***************************************	***************************************	Secon	dary Indicators (2 or more	required)
Primary Indicate	ors (any one indica	<u>ator is sufficie</u>	ent)					☐ Wa	ater Marks (B1) (Riverine	-)
☐ Surface Wat	ter (A1)		☐ Salt Crus	st (B11)				☐ Se	ediment Deposits (B2) (Riv	verine)
☐ High Water	Table (A2)		☐ Biotic Cru						ift Deposits (B3) (Riverine	
☐ Saturation (A	•		☐ Aquatic In	ivertebrate	es (B13)			☐ Dri	ainage Patterns (B10)	
	(B1) (Nonriverin	· ·	☐ Hydroger	n Sulfide C	Odor (C1)			☐ Dr	y-Season Water Table (C	2)
	eposits (B2) (Non	,			eres along	_	oots (C3)	Thir	n Muck Surface (C7)	
	ts (B3) (Nonriveri	ne)			ed Iron (C	•			ayfish Burrows (C8)	
	Cracks (B6)	(20.70)	☐ Recent In			wed Soils	(C6)		ituration Visible on Aerial I	lmagery (C9)
	/isible on Aerial Im	nagery (B7)	☐ Other (Ex	plain in Re	emarks)				allow Aquitard (D3)	
☐ Water-Staine	` '					r			C-Neutral Test (D5)	
Surface Water P		~~ [T] No [X]	Donth (inches)	=						
Water Table Pre			Depth (inches):							
			Depth (inches):			101				
Saturation Prese (includes capillar	ry fringe)		Depth (inches):			1			Present? Yes 🗌 No	
Describe Record	ded Data (stream o	gauge, monit	oring well, aeria	l photos, p	revious in	spections	), if avail:	able:	***************************************	<del></del>
Remarks:							***************************************	***************************************	***************************************	

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date: 7	7/31/ <sup>-</sup>	12	
Applicant/Owner: State: OR Sampling Point: 51				
Investigator(s): MRS Section, Township, Range: T-	4N. R28E, Se	ec. 8		
Landform (hillslope, terrace, etc.): Swale Local relief (conca				ne (%):3-6%
Subregion (LRR):D Lat: 45.8387 Long: -119.3333	Datum:		.,. 2011.0010 2,0	po (10).0 0.70
Soil Map Unit Name: Adkins Fine Sandy Loam NWI classifi				
Are climatic / hydrologic conditions on the site typical for this		-2 V	oo 1571 No 177 776	and a contain in Managada N
Are Vegetation □, Soil □, or Hydrology □ significantly dis				· ·
				mstances" present? Yes 🗵 No 🗍
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally proble				any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing s	sam	pling point I	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			Is the Sample	d Area
Hydric Soil Present? Yes ☐ No 🗵		Į.	within a Wetla	
Wetland Hydrology Present? Yes ☐ No ☒			WILLIIII A VVOLIA	Tes [] NO [A]
Remarks:			•	
VEGETATION			***************************************	
Tree Stratum (Plot size: 30) %	Absolute (		inant Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1.Robinia pseudoacacia		x	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.				Total Number of Dominant
3,				Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
		**********	***************************************	That Are OBL, FACW, or FAC: 50 (A/B)
Total Cover: Sapling/Shrub Stratum (Plot size: 5')	<u>40</u>			Prevalence Index worksheet;
1.	ТТ			Total % Cover of: Multiply by:
2.				OBL species x1=
3.				FACW species x 2 =
4.	<del> </del>			FAC species x 3 =
5.				FACU species x 4 =
	<u> </u>			UPL species x 5 =
Total Cover;	at a transfer or transmissioner			Column Totals: (A)
Herb Stratum (Plot size; 5')				
1.Phalaris arundinacea 2.Urtica dioica	<u> </u>	<b>K</b>	FACW	Prevalence Index = B/A =
3.	5		FAC	Hydrophytic Vegetation Indicators:  Dominance Test is >50%
	ļ			Prevalence Index is =3.01
5.	ļ			Morphological Adaptations¹ (Provide supporting
6.				data in Remarks or on a separate sheet)
7.				Problematic Hydrophytic Vegetation¹ (Explain)
8.				
0.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cover:	<u>100</u>			
Woody Vine Stratum (Plot size: 5')				Hydrophytic
1.				Vegetation   Present?
2. Total Cover:				
				Remarks:
% Bare Ground in Herb Stratum0 % Cover	of Biotic Cru	ıst		

Depth _	Matrix			dox Featur			<b>.</b>		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-14	2.5Y3/2	100					LS		
						***************************************	******		
			······································				<del></del>		
		-					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
							***************************************		
L	1	1	······	Ĺ					
¹Tyne: C=Cond	entration D≂Der	oletion RM=	Reduced Matrix.	<sup>2</sup> l ocatio	n: Pl=Poi	e Linina	RC=Root Ch	annal M:	=Matriv
Hydric Soil Ind	licators: (Applic	able to all l	RRs, unless oth	nerwise no	oted.)	e unaig,			roblematic Hydric Soils
☐ Histosol (A			☐ Sandy Red		,				49) (LRR C)
☐ Histic Epip	•		☐ Stripped N						.10) (LRR B)
Black Histi			Loamy Mo					luced Ver	
	Sulfide (A4)		Loamy Gl	eyed Matri	x (F2)				Material (TF2)
	ayers (A5) (LRR	C)	Depleted				☐ Oth	er (Explai	in in Remarks)
1 cm Muck		- /^ / 4	☐ Redox Da						
☐ Depleted Be☐ Thick Dark \$	elow Dark Surface	e (A11)	Depleted						
Sandy Muck	, ,		☐ Redox De ☐ Vernal Poo		(۳8)		3Indicate	are of bud	Irophytic vegetation and
☐ Sandy Gley			veinari oc	//3 (1 O)					logy must be present,
Restrictive Lay									
Туре:	•								
-	s):						Hydric S	oil Prese	ent? Yes ☐ No ☒
Туре:	s):			**************************************			Hydric S	oil Prese	ent? Yes ☐ No ☒
Type: Depth (inche	s):	***************************************		***************************************			Hydric S	oil Prese	ent? Yes □ No ☒
Type: Depth (inche	s):						Hydric S	oil Prese	ent? Yes ☐ No 🛭
Type: Depth (inche	s):						Hydric S	oil Prese	ent? Yes ☐ No ⊠
Type: Depth (inche							Hydric S	oil Prese	ent? Yes ☐ No ⊠
Type: Depth (inche Remarks:	7								
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol	, logy Indicators;		ent)				Se	condary I	ndicators (2 or more requ
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato	, logy Indicators: rs (any one indic			+/R11)			Se	condary l Water M	ndicators (2 or more requ larks (B1) ( <b>Riverine</b> )
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat	logy Indicators: rs (any one indicator)		☐ Salt Crus				Se	condary I Water M Sedimer	ndicators (2 or more requ larks (B1) ( <b>Riverine</b> ) nt Deposits (B2) ( <b>Riveri</b> n
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water	logy Indicators: rs (any one indicator) er (A1) Fable (A2)		☐ Salt Crus	ıst (B12)	s (B13)		Se	condary I Water M Sedimer Drift Dep	ndicators (2 or more requ larks (B1) (Riverine) nt Deposits (B2) (Riverin posits (B3) (Riverine)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A	logy Indicators: rs (any one indicator) er (A1) Fable (A2) 3)	ator is suffici	☐ Salt Crus ☐ Bìotic Cru ☐ Aquatic In	ist (B12) vertebrate	. ,		Se	condary I Water M Sedimer Drift Dep Drainage	ndicators (2 or more requiants (B1) (Riverine) at Deposits (B2) (Riverine) cosits (B3) (Riverine) e Patterns (B10)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks	r logy Indicators: rs (any one indica er (A1) Fable (A2) 3) (B1) (Nonriverin	ator is suffici	☐ Salt Crus☐ Biotic Cru☐ Aquatic In☐ Hydroger	ist (B12) vertebrate i Sulfide O	dor (C1)	iving Roc	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea	ndicators (2 or more requiants (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) a Patterns (B10) son Water Table (C2)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De	logy Indicators: rs (any one indicators) er (A1) Fable (A2) 3) (B1) (Nonriverin	ator is suffici ne) nriverine)	Salt Crus Biotic Cru Aquatic In Hydroger	ust (B12) vertebrate a Sulfide O Rhizosphe	dor (C1) res along t	-	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc	ndicators (2 or more requiants (B1) (Riverine) at Deposits (B2) (Riverine) cosits (B3) (Riverine) e Patterns (B10) son Water Table (C2)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De	rs (any one indicators: rs (any one indicators) er (A1) Fable (A2) 3) (B1) (Nonrivering posits (B2) (Nonsis (B3))	ator is suffici ne) nriverine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce	dor (C1) res along t ed Iron (C4	)	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish	ndicators (2 or more requiarks (B1) (Riverine) at Deposits (B2) (Riverine) cosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) ck Surface (C7) Burrows (C8)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil	rogy Indicators: rs (any one indicators) er (A1) Fable (A2) 3) (B1) (Nonriverinators) eposits (B2) (Nonsiverinators) s (B3) (Nonriverinators)	ator is suffici ne) nriverine) ine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along t ed Iron (C4 on in Plow	)	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatio	ndicators (2 or more requiants (B1) (Riverine) at Deposits (B2) (Riverine) bosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) sk Surface (C7) Burrows (C8)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation Ve	rs (any one indicators: rs (any one indicators) er (A1) Fable (A2) 3) (B1) (Nonrivering posits (B2) (Nonsis (B3))	ator is suffici ne) nriverine) ine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along t ed Iron (C4 on in Plow	)	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatic Shallow	ndicators (2 or more requiarks (B1) (Riverine) at Deposits (B2) (Riverine) bosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) ck Surface (C7) Burrows (C8) on Visible on Aerial Image
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation Ve	logy Indicators: rs (any one indicators) er (A1) Fable (A2) 3) (B1) (Nonrivering) eposits (B2) (Nonsis (B3) (Nonrivering) Cracks (B6) isible on Aerial Indicators	ator is suffici ne) nriverine) ine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along t ed Iron (C4 on in Plow	)	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatic Shallow	ndicators (2 or more requiants (B1) (Riverine) at Deposits (B2) (Riverine) bosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) sk Surface (C7) Burrows (C8)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation Vi	logy Indicators: rs (any one indicators) rs (A1) Fable (A2) 3) (B1) (Nonrivering sposits (B2) (Nons s (B3) (Nonrivering Cracks (B6) isible on Aerial Indicators	ator is suffici ne) nriverine) ine) nagery (B7)	Salt Crus Siotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along t ed Iron (C4 on in Plow	)	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatic Shallow	ndicators (2 or more requiarks (B1) (Riverine) at Deposits (B2) (Riverine) bosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) ck Surface (C7) Burrows (C8) on Visible on Aerial Image
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation	logy Indicators: rs (any one indicators and indicators) rable (A2) 3) (B1) (Nonriverinal posits (B2) (Nons (B3) (Nonriverinal Indicators (B9) and Leaves (B9) pons: resent?	ator is suffici	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along t ed Iron (C4 on in Plow	)	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatic Shallow	ndicators (2 or more requiarks (B1) (Riverine) at Deposits (B2) (Riverine) bosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) ck Surface (C7) Burrows (C8) on Visible on Aerial Image
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation Vi Water-Staine Field Observation Surface Water Presented	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Fable (A2) 3) (B1) (Nonrivering eposits (B2) (Nons (B3) (Nonrivering Cracks (B6) isible on Aerial Indicators (B9) cons: resent? Yesent? Yesent?	ator is suffici	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along t ed Iron (C4 on in Plow	) ed Soils (	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatio Shallow FAC-Neu	ndicators (2 or more requirence) larks (B1) (Riverine) nt Deposits (B2) (Riverine) e Patterns (B10) son Water Table (C2) ok Surface (C7) Burrows (C8) on Visible on Aerial Image Aquitard (D3) utral Test (D5)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prese Water Table Prese Saturation Prese (includes capillar	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Fable (A2) 3) (B1) (Nonrivering eposits (B2) (Nonseposits (B2) (Nonrivering Cracks (B6) isible on Aerial Indicators de Leaves (B9) cons: resent? yesent? yesent? yesent? yesent?	ator is suffici	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti blain in Rei	dor (C1) res along t ad Iron (C4) on in Plowe marks)	) ed Soils (	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatio Shallow FAC-Neu	ndicators (2 or more requiarks (B1) (Riverine) at Deposits (B2) (Riverine) bosits (B3) (Riverine) e Patterns (B10) son Water Table (C2) ck Surface (C7) Burrows (C8) on Visible on Aerial Image
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prese Water Table Prese Saturation Prese (includes capillar	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Fable (A2) 3) (B1) (Nonrivering eposits (B2) (Nonseposits (B2) (Nonrivering Cracks (B6) isible on Aerial Indicators de Leaves (B9) cons: resent? yesent? yesent? yesent? yesent?	ator is suffici	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti blain in Rei	dor (C1) res along t ad Iron (C4) on in Plowe marks)	) ed Soils (	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatio Shallow FAC-Neu	ndicators (2 or more requirence) larks (B1) (Riverine) nt Deposits (B2) (Riverine) e Patterns (B10) son Water Table (C2) ok Surface (C7) Burrows (C8) on Visible on Aerial Image Aquitard (D3) utral Test (D5)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prese Water Table Prese Saturation Prese (includes capillar	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Fable (A2) 3) (B1) (Nonrivering eposits (B2) (Nonseposits (B2) (Nonrivering Cracks (B6) isible on Aerial Indicators de Leaves (B9) cons: resent? yesent? yesent? yesent? yesent?	ator is suffici	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti blain in Rei	dor (C1) res along t ad Iron (C4) on in Plowe marks)	) ed Soils (	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatio Shallow FAC-Neu	ndicators (2 or more requirence) larks (B1) (Riverine) nt Deposits (B2) (Riverine) e Patterns (B10) son Water Table (C2) ok Surface (C7) Burrows (C8) on Visible on Aerial Image Aquitard (D3) utral Test (D5)
Type: Depth (inche Remarks:  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prese Water Table Prese Saturation Prese (includes capillar	logy Indicators: rs (any one indicators: rs (any one indicators) rs (A1) Fable (A2) 3) (B1) (Nonrivering eposits (B2) (Nonseposits (B2) (Nonrivering Cracks (B6) isible on Aerial Indicators de Leaves (B9) cons: resent? yesent? yesent? yesent? yesent?	ator is suffici	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Exp	ust (B12) vertebrate a Sulfide O Rhizosphe of Reduce on Reducti blain in Rei	dor (C1) res along t ad Iron (C4) on in Plowe marks)	) ed Soils (	Se	condary I Water M Sedimer Drift Dep Drainage Dry-Sea Thin Muc Crayfish Saturatio Shallow FAC-Neu	ndicators (2 or more requirence) larks (B1) (Riverine) nt Deposits (B2) (Riverine) e Patterns (B10) son Water Table (C2) ok Surface (C7) Burrows (C8) on Visible on Aerial Image Aquitard (D3) utral Test (D5)

Project/Site: Hermiston LWI City/Cour	ity: Hermiston Sam	pling Date	e: 7/31	/12				
	Sampling Point: 52							
	ownship, Range: T4	in. R28E.	Sec. 1	1				
Landform (hilfslope, terrace, etc.): Ditch					ne (%);			
Subregion (LRR):D Lat: 45.8467	Long: -119.2694	Datu		y. Concare Gio	56 ( <i>10</i> ).			
Soil Map Unit Name: Wanser Loamy Fin	-		111,					
Are climatic / hydrologic conditions on the			~~~ \	/a. [7] N. [77] (1)				
Are Vegetation ☐, Soil ☐, or Hydrology								
					mstances" present? Yes 🛛 No 🗍			
Are Vegetation , Soil , or Hydrology					n any answers in Remarks.)			
- ALIMANTO - ALIMANDA	lacii site map s	MOWING	y San	ibiing boint	locations, transects, important features, etc			
Hydrophytic Vegetation Present?	Yes 🛛 No 🗌			Is the Sample	d Area			
Hydric Soil Present?	Yes ☐ No 🗵			within a Wetla				
Wetland Hydrology Present?  Remarks:Adjacent to ditch	Yes ☐ No 🗵	***************************************						
Nomana.Adjacent to ditor								
VEGETATION								
Tree Stratum (Plot size: 30)	9/, (	Dominance Test worksheet:						
1.	/0	<u> </u>	pecies	? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)			
2.	year							
3.			<u> </u>		Total Number of Dominant Species Across All Strata: 2 (B)			
4.					- ,			
		<u> </u>	<u></u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)			
	Total Cover:				, ,			
Sapling/Shrub Stratum (Plot size: 5')					Prevalence Index worksheet:			
1.Eleagnus angustifolia 2.		15	Х	FAC	Total % Cover of: Multiply by:  OBL species x 1 =			
3.					OBL species x 1 = FACW species x 2 =			
4.					FAC species x 3 =			
5.					FACU species x 4 =			
			<u> </u>		UPL species x 5 =			
	Total Cover:				Column Totals:(A)			
Herb Stratum (Plot size: 5')	. 0.0., 00.701.				(B)			
1.Phalaris arundinacea		100	Х	FACW	Prevalence Index = B/A =			
2.					Hydrophytic Vegetation Indicators:			
3.					Dominance Test is >50%			
4.					Prevalence Index is =3.01			
5.					Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)			
6.					Problematic Hydrophytic Vegetation¹ (Explain)			
7.					, , , , , , , , , , , , , , , , , , , ,			
8.			<sup>1</sup> Indicators of hydric soil and wetland hydrology must					
	Total Cover:	100			be present.			
Woody Vine Stratum (Plot size: 5')	rotal cover.	100			the decrete of			
1.					Hydrophytic Vegetation			
2.					Present? Yes No 🗆			
	Total Cover:				Remarks:			
% Bare Ground in Herb Stratum0	% Cover	of Biotic C	Crust					

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SOIL			ak Salamania mila Amerika ini Salamania ini sana ini salamania ini salamania ini salamania ini salamania ini s			DALLING ON BURELOWS II	dan samonaday, c		Sampling Point: 52		
Profile Descr	iption: (Describe	to the dept	h needed to doc	ument the	indicator o	or confin	m the ab	sence of Indica	itors.)		
Depth Matrix Redox Features											
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type <sup>1</sup>	Loc²	<u>Text</u>	ture	Remarks		
0-14	2.5Y3/2	100					S				
			***************************************				***********************				
							***				
	***************************************										
	-										
		***************************************									
		-									
			······································				*****************				
1- 00				2,	_, _						
	centration, D=Der					Elning,		t Channel, M=Ma			
☐ Histosol		Jabie (O aii i	Sandy Red		reu.,		Indicators for Problematic Hydric Soils <sup>3</sup> :				
I .	ipedon (A2)		☐ Stripped N				☐ 1 cm Muck (A9) (LRR C) ☐ 2 cm Muck (A10) (LRR B)				
☐ Black His			Loamy Mu		al (F1)		Reduced Vertic (F18)				
	Sulfide (A4)		☐ Loamy Gl		, ,			Red Parent Mate	· · · · ·		
☐ Stratified	Layers (A5) (LRR	C)	☐ Depleted I					Other (Explain in	•		
	k (A9) (LRR D)		Redox Da						·		
1	Below Dark Surface	e (A11)	Depleted I								
	Surface (A12)		Redox De		(F8)		٠				
1	oky Mineral (S1)		☐ Vernal Poo	ls (F9)			<sup>3</sup> Indicators of hydrophytic vegetation and				
1	yed Matrix (S4)  yer (if present):						v	vetland hydrolog	y must be present.		
Type:	iyer (ii present).										
1	00/1			Hardele Call Day and C. M. C. N. C.							
Depth (inches): Hydric Soil Present? Yes □ No ☒ Remarks:											
Nemarks.											
		· · · · · · · · · · · · · · · · · · ·									
HYDROLOG	Υ										
Wetland Hydr	ology Indicators:	***************************************			*****			Secondary India	cators (2 or more required)		
Primary Indica	ors (any one indic	ator is suffic	ent)					☐ Water Mark	s (B1) (Riverine)		
☐ Surface Wa	ater (A1)		☐ Salt Crus	t (B11)			Sediment Deposits (B2) (Riverine)				
☐ High Water	Table (A2)				its (B3) (Riverine)						
☐ High Water Table (A2)       ☐ Biotic Crust (B12)       ☐ Drift Deposits (B3) (Riverine)         ☐ Saturation (A3)       ☐ Aquatic Invertebrates (B13)       ☐ Drainage Patterns (B10)											
☐ Water Mark	☐ Water Marks (B1) (Nonriverine) ☐ Hydrogen Sulfide Odor (C1) ☐ Dry-Season Water Table (C2)										
☐ Sediment Deposits (B2) (Nonriverine) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Thin Muck Surface (C7)											
☐ Drift Deposits (B3) (Nonriverine) ☐ Presence of Reduced Iron (C4) ☐ Crayfish Burrows (C8)											
☐ Surface Soil Cracks (B6) ☐ Recent Iron Reduction in Plowed Soils (C6) ☐ Saturation Visible on Aerial Imagery (C9											
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3)											
☐ Water-Stair	red Leaves (B9)							☐ FAC-Neutra	il Test (D5)		
Field Observa	tions:			***************************************							
Surface Water Present? Yes ☐ No ☒ Depth (inches):											
Water Table Present? Yes ☐ No ☑ Depth (inches):											
Saturation Pres	ent? Ye		Depth (inches):	Wetl	Wetland Hydrology Present? Yes ☐ No ☒						
(includes capilla	ary fringe)										
Describe Recot	ded Data (stream	gauge, mon	itoring well, aeriai	photos, p	revious insp	ections),	if availal	ble:			
							***************************************				
Remarks:											

Project/Site: Hermiston LWI City/County: Her	miston Sampling Dat	e: 7/31.	/12		
Applicant/Owner: State: OR Samplin	g Point: 53				
Investigator(s): MRS Section, Township	o, Range: T4N, R 28 E	E, Sec.	11		
Landform (hillslope, terrace, etc.): Ditch Local				pe (%):3-6	
	-119.2694 Datu		•	` '	
Soil Map Unit Name: Wanser Loamy Fine Sand					
Are climatic / hydrologic conditions on the site ty		war? V	/as ⊠ No □ /If	no evolain in Remarke \	
Are Vegetation □, Soil □, or Hydrology □ sign				nstances" present? Yes	No C
Are Vegetation □, Soil □, or Hydrology □ nati	-				110 <u>: 1</u>
		-	•	any answers in Remarks.)	mnariant faatuur
SUMMARY OF FINDINGS – Attach s	me map snowing	y san	ubinig bonir i		mportant features, etc.
	□ No 🖾		Is the Sample	d Area	
1	□ No 🔯		within a Wetla	nd? Yes 🗌 No	×
Wetland Hydrology Present? Yes Remarks:	□ No 🖾				
Nemarks.					
VEGETATION					
Tree Stratum (Plot size: 30)	Absolute <u>% Cover</u> S		ninant Indicator s? Status	Dominance Test worksh	
1.		7		Number of Dominant Spec That Are OBL, FACW, or I	
2.				Total Number of Dominant	
3.				Species Across All Strata:	
4.				Percent of Dominant Spec	eales
t				That Are OBL, FACW, or F	
Sapling/Shrub Stratum (Plot size: 5')	Total Cover:			Prevalence Index workst	neet:
1.				Total % Cover of:	Multiply by:
2.				OBL species	x1=
3.				FACW species	x2=
4.					x 3 =
5.				•	x 4 =
					x 5 =
. Herb Stratum (Plot size: 5')	Total Cover:			(B)	(A)
1.		1		Prevalence Index =	B/A =
2.Bromus tectorum	20	×	NOL	Hydrophytic Vegetation I	
3.Hordeum brachytherum	10	×	FACW	Dominance Test is	>50%
4. Grindelia squarrosa	5		FACU	Prevalence index is	
5.				Morphological Adap	otations¹ (Provide supporting r on a separate sheet)
6.					phytic Vegetation¹ (Explain)
7.					( <u></u>
8.					nd wetland hydrology must
	Total Cover: 35			be present.	
Woody Vine Stratum (Plot size: 5')	. 0.0.1 0010.1. <u>00</u>			Hydrophytic	
1.				Vegetation	
2.				Present? Yes_	□ No ⊠
·	Total Cover:			Remarks:	
% Bare Ground in Herb Stratum 65	% Cover of Bioti	c Crus	t		

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Depth	Matrix		Re	dox Features				
(inches) (	Color (moist)	%	Color (moist)	%Type	Loc²	<u>Te</u>	xture	Remarks
0-14	2.5Y3/2	100			1	Ts		
			***************************************			<del> </del>		
		ļ				ļ		
	V					<del> </del>	······································	
		LL			I	<u></u>		
ype: C=Concer	ntration, D=Dep	letion, RM=I	Reduced Matrix.	<sup>2</sup> Location: PL=P	ore Lining.	RC≂Ro	ot Channe	el M=Matrix
dric Soil Indic	ators: (Applic	able to all L	RRs, unless oth	erwise noted.)	,, o _,,,,,,g,	Inc	licators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			☐ Sandy Red	•				ick (A9) (LRR C)
Histic Epiped	don (A2)		Stripped N					ck (A10) (LRR B)
Black Histic				cky Mineral (F1)				Vertic (F18)
Hydrogen Sเ			☐ Loamy Gle	eyed Matrix (F2)				ent Material (TF2)
	ers (A5) ( <b>LRR (</b>	<b>C</b> )	□ Depleted N	Matrix (F3)				xplain in Remarks)
1 cm Muck (A				k Surface (F6)				,
	w Dark Surface	(A11)		Dark Surface (F7)				
Thick Dark Su			Redox Dep					
Sandy Mucky Sandy Gleyed			☐ Vernal Poo	ls (F9)		³lne	dicators of	f hydrophytic vegetation and
strictive Layer					***************************************		wetland h	ydrology must be present.
	(ii bieseiii).							
LVno.								
- '								
Type: Depth (inches): marks:	:					Hyd	ric Soil P	resent? Yes ☐ No 🗵
Depth (inches): marks:						Hyd	ric Soil P	'resent? Yes □ No ⊠
Depth (inches): marks:  DROLOGY						Hyd	ric Soil P	resent? Yes ☐ No ☑
Depth (inches): imarks:  DROLOGY itland Hydrolog	gy Indicators:					Hyd		resent? Yes ☐ No ☒  ary Indicators (2 or more required)
Depth (inches): marks:  DROLOGY tland Hydrolog mary Indicators	gy Indicators; (any one indica	tor is sufficie				Hyd	Seconda	
Depth (inches): marks:  DROLOGY tland Hydrolog mary Indicators Surface Water	gy Indicators: (any one indica (A1)	itor is sufficie	ent) Salt Crust	(B11)		Hyd	Second:	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Depth (inches): marks:  DROLOGY  tland Hydrolog mary Indicators Surface Water High Water Tal	gy Indicators: (any one indica (A1) ble (A2)	tor is sufficie				Hyd	Seconda Wat	ary Indicators (2 or more required) er Marks (B1) (Riverine) íment Deposits (B2) (Riverine)
Depth (inches): marks:  DROLOGY itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3)	g <b>y Indicators:</b> (an <u>y one indica</u> (A1) ble (A2)		☐ Salt Crust ☐ Bíotic Cru			Hyd	Seconda  Wat  Sedi	ary Indicators (2 or more required) er Marks (B1) (Riverine)
Depth (inches): marks:  DROLOGY  Itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B	gy Indicators; (any one indica (A1) ble (A2)	e)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv	st (B12)		Hyd	Seconda  Wat  Sedi  Drift  Drai	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine) nage Patterns (B10)
Depth (inches): marks:  DROLOGY etland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo	gy Indicators; (any one indica (A1) ble (A2) 1) (Nonriverine osits (B2) (Nonr	a) iverine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen	st (B12) vertebrates (B13)	Living Roo		Seconda  Wat  Sedi  Drift  Drai  Dry-	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine)
Depth (inches): marks:  DROLOGY etland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo	gy Indicators: (any one indica (A1) ble (A2) 1) (Nonriverine psits (B2) (Nonr	a) iverine)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	1)	ots (C3)	Seconda  Wat Sedi Drift Drai Dry- Thin	ary Indicators (2 or more required) rer Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Depth (inches): marks:  DROLOGY etland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr	gy Indicators: (any one indicators) (A1) ble (A2) 1) (Nonriverine posits (B2) (Nonriverine B3) (Nonriverine B6)	e) iverine) ne)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along	1)	ots (C3)	Second:  Wat Sedi Drift Drai Dry- Thin Cray	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8)
Depth (inches): marks:  DROLOGY etland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit	gy Indicators: (any one indication) (A1) ble (A2) (1) (Nonrivering posits (B2) (Nonrivering (A3) (Nonrivering (A3) (Nonrivering (A4) ble on Aerial Im	e) iverine) ne)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	1)	ots (C3)	Seconda  Wat Sedi Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Depth (inches): marks:  DROLOGY  tland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit Water-Stained	gy Indicators; (any one indica (A1) ble (A2) 1) (Nonriverine osits (B2) (Nonr B3) (Nonriverine acks (B6) ble on Aerial Im Leaves (B9)	e) iverine) ne)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C in Reduction in Plov	1)	ots (C3)	Seconda  Wat Sedi Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) fi Season Water Table (C2) fi Muck Surface (C7) fi Burrows (C8) firation Visible on Aerial Imagery (C8)
Depth (inches): marks:  DROLOGY  Itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit Water-Stained d Observation	gy Indicators: (any one indication) (A1) ble (A2) 1) (Nonrivering osits (B2) (Nonrivering acks (B6) ble on Aerial Im Leaves (B9) s:	e) iverine) ne)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C in Reduction in Plov	1)	ots (C3)	Seconda  Wat Sedi Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) fi Season Water Table (C2) fi Muck Surface (C7) fi Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (inches): marks:  DROLOGY  Itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visil Water-Stained Id Observation	gy Indicators: (any one indicators) (A1) ble (A2) 1) (Nonrivering sits (B2) (Nonr B3) (Nonrivering acks (B6) ble on Aerial Im Leaves (B9)	e) iverine) ne) agery (B7)	Salt Crust Biotic Cru Aquatic Inv Hydrogen Oxidized F Presence Recent iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C in Reduction in Plov	1)	ots (C3)	Seconda  Wat Sedi Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) fi Season Water Table (C2) fi Muck Surface (C7) fi Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (inches): marks:  DROLOGY  Itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit Water-Stained d Observation face Water Pres	gy Indicators: (any one indications) (A1) ble (A2) (1) (Nonriverine osits (B2) (Nonriverine osits (B6) (Nonriverine osits (B6) ble on Aerial Im Leaves (B9) s: sent? Yes	e) iverine) ne) agery (B7)	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence ☐ Recent iro ☐ Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C in Reduction in Plov	1)	ots (C3)	Seconda  Wat Sedi Drift Drai Dry- Thin Cray Satu	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) fi Season Water Table (C2) fi Muck Surface (C7) fi Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
Depth (inches): marks:  DROLOGY  Itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visil Water-Stained Id Observation face Water Presert aration Present udes capillary for	gy Indicators: (any one indicators: (A1) ble (A2) 1) (Nonriverine posits (B2) (Nonriverine posits (B6) ble on Aerial Impleaves (B9) s: sent? Yeseringe)	e) iverine) ne) agery (B7)  S No 🔯 S No 🔯	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence ☐ Recent iro ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cin Reduction in Plov lain in Remarks)	ved Soils (	ots (C3)	Second:  Sedi Sedi Drift Drai Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) fi Deposits (B3) (Riverine) finage Patterns (B10) fi Season Water Table (C2) fi Muck Surface (C7) fi Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3)
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Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit Water-Stained I Id Observation rface Water Presenter Table Present uration Presentations cribe Recorded	gy Indicators: (any one indicators: (A1) ble (A2) 1) (Nonriverine posits (B2) (Nonriverine posits (B6) ble on Aerial Impleaves (B9) s: sent? Yeseringe)	e) iverine) ne) agery (B7)  S No 🔯 S No 🔯	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence ☐ Recent iro ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cin Reduction in Plov lain in Remarks)	ved Soils (	ots (C3)	Second:  Sedi Sedi Drift Drai Dry- Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) finent Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Patterns (C7) fish Burrows (C8) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3) finagery (D5)
Depth (inches): emarks:  DROLOGY etland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visil Water-Stained Id Observation face Water Preser ter Table Presert Indes capillary for	gy Indicators: (any one indicators: (A1) ble (A2) 1) (Nonriverine posits (B2) (Nonriverine posits (B6) ble on Aerial Impleaves (B9) s: sent? Yeseringe)	e) iverine) ne) agery (B7)  S No 🔯 S No 🔯	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence ☐ Recent iro ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cin Reduction in Plov lain in Remarks)	ved Soils (	ots (C3)	Second:  Sedi Sedi Drift Drai Dry- Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) finent Deposits (B3) (Riverine) finage Patterns (B10) finage Patterns (B10) finage Patterns (C7) fish Burrows (C8) fish Burrows (C8) firation Visible on Aerial Imagery (C8) filow Aquitard (D3) finagery (D5)
Depth (inches): marks:  DROLOGY  Itland Hydrolog mary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit Water-Stained I d Observation face Water Present ter Table Present uration Present ludes capillary fi cribe Recorded	gy Indicators: (any one indicators: (A1) ble (A2) 1) (Nonriverine posits (B2) (Nonriverine posits (B6) ble on Aerial Impleaves (B9) s: sent? Yeseringe)	e) iverine) ne) agery (B7)  S No 🔯 S No 🔯	☐ Salt Crust ☐ Biotic Cru ☐ Aquatic Inv ☐ Hydrogen ☐ Oxidized F ☐ Presence ☐ Recent iro ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cin Reduction in Plov lain in Remarks)	ved Soils (	ots (C3)	Second:  Sedi Sedi Drift Drai Dry- Thin Cray Satu Shal	ary Indicators (2 or more required) for Marks (B1) (Riverine) fiment Deposits (B2) (Riverine) finent Deposits (B10) finent Deposits (B10) finent Patterns (B10) finent Patterns (B10) finent Patterns (B10) finent Patterns (C1) finent Patterns (C8) finent Patterns

Project/Site: Hermiston LWI City/County: Hermiston S	Sampling Dat	e: 7/31/	12	
Applicant/Owner: State: OR Sampling Point:	54			
Investigator(s): MRS Section, Township, Range	: T4N, R 28E	. Sec. 1	11	
Landform (hillslope, terrace, etc.): Flat Local relief (cond				<b>(</b> a):
Subregion (LRR):D Lat: 45.8489 Long: -119.26				•
Soil Map Unit Name: Winchester Sand NWI classification				
Are climatic / hydrologic conditions on the site typical for		oor2 V	oc Mila II (I	fine avaigin in Demarks )
Are Vegetation □, Soil □, or Hydrology □ significantly				
Are Vegetation [ , Soil [ , or Hydrology [ ] naturally pro				umstances" present? Yes ⊠ No □
				in any answers in Remarks.)  locations, transects, important features, etc.
, Adding the second second	P 311311111	9 34.1		Todations, transcots, important reatures, etc.
Hydrophytic Vegetation Present? Yes ⊠ No □			Is the Sample	ed Area
Hydric Soil Present? Yes ☐ No ☑ Wetland Hydrology Present? Yes ☐ No ☑	_		within a Wetl	and? Yes ☐ No ⊠
Remarks:	<del></del>			
	·			
VEGETATION				
Tree Stratum (Plot size: 30)	Absolute % Cover S		inant Indicator	
1.	70 00101 5	1	, <u>Otatus</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.				
3.		-		Total Number of Dominant Species Across All Strata: <u>2</u> (B)
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B)
Total Co	ver:			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 5')_  1.Eleagnus angustifolia	95	1	TEAC	Total % Cover of: Multiply by:
2.	95	×	FAC	OBL species x 1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5.		-		FACU species x 4 =
				UPL species x 5 =
Total Co	ver: <u>95</u>			Column Totals:(A)
Herb Stratum (Plot size: 5')				. (6)
1.Festuca arundinacea	15	x	FAC	Prevalence Index = B/A =
2.				Hydrophytic Vegetation Indicators:
3.				Dominance Test is >50%  Prevalence Index is =3.01
4.				Morphological Adaptations <sup>1</sup> (Provide supporting
5.				data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation¹ (Explain)
7. 8.				
U.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cov	/er: <u>15</u>			
Woody Vine Stratum (Plot size: 5')				Hydrophytic
1.				Vegetation Present?  Yes ⊠ No □
2. Total Cov	ıor:			
		_		Remarks:
% Bare Ground in Herb Stratum80 % 0	Cover of Bioti	c Crust		

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Depth			eeded to document the i		oominin are a		·
(inches)	Matrix Color (moist)	% (	Redox Features Color (moist) %		Loc <sup>2</sup> Te	xture	Remarks
			20101 (MOIST) 76	TiAne		<u>xture</u>	iveillaiks
0-18	2.5Y3/2	100			S		
***************************************							
Type: C=Co	oncentration, D=Deplet	tion DM-Dag	lugad Matrix 21 agation	Di »Doro I	.ining, RC≍Ro	at Chann	al Namhaatria
			ls, unless otherwise note				or Problematic Hydric Solls <sup>3</sup> :
☐ Histosol			Sandy Redox (S5)	·,			ick (A9) (LRR C)
	oipedon (A2)		Stripped Matrix (S6)				ck (A10) (LRR B)
 ☐ Black Hi			Loamy Mucky Mineral	(F1)			d Vertic (F18)
	n Sulfide (A4)		Loamy Gleyed Matrix (		-		ent Material (TF2)
Stratified	Layers (A5) (LRR C)		Depleted Matrix (F3)	,			xplain in Remarks)
	ck (A9) (LRR D)		Redox Dark Surface (F				
	Below Dark Surface (/		Depleted Dark Surface	· ·			
	k Surface (A12)		Redox Depressions (F	8)	a.		
	ucky Mineral (S1) eyed Matrix (S4)	l	☐ Vernal Pools (F9)				f hydrophytic vegetation and
	ayer (if present):					wetland r	nydrology must be present.
Type:	ayer (ii present).						
• •	h > -						
Depth (incl	nes):		****		Hyd	ric Soll F	Present? Yes ☐ No ☒
Remarks:							
							·
/DROLOG	GY .						
	GY rology Indicators:					Second	lary Indicators (2 or more required)
etland Hydi	rology Indicators:	or is sufficient	)				lary Indicators (2 or more required)
etland Hydi rimary Indica	rology Indicators: itors (any one indicato					☐ Wa	ter Marks (B1) (Riverine)
Vetland Hydi rimary Indica ] Surface W	rology Indicators: ators (any one indicato /ater (A1)		Salt Crust (B11)			☐ Wa	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
Vetland Hydi rimary Indica ] Surface W ] High Wate	rology Indicators: ators (any one indicato /ater (A1) er Table (A2)		☐ Salt Crust (B11) ☐ Biotic Crust (B12)	B13)		☐ War ☐ Sec ☐ Drif	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Vetland Hydi rimary Indica ] Surface W ] High Wate ] Saturation	rology Indicators: utors (any one indicato /ater (A1) or Table (A2) (A3)		☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (			☐ Wa ☐ Sec ☐ Drif ☐ Dra	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
Vetland Hydi Irimary Indica Surface W High Wate Saturation Water Mark	rology Indicators: ators (any one indicato /ater (A1) Fr Table (A2) (A3) (S (B1) (Nonriverine)		☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates ( ☐ Hydrogen Sulfide Odd	r (C1)	an Roots (C3)	☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)
Vetland Hydi Irimary Indica Surface W High Wate Saturation Water Mark Sediment I	rology Indicators: ators (any one indicato (ater (A1) er Table (A2) (A3) (S (B1) (Nonriverine) Deposits (B2) (Nonriv	/erine)	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates ( ☐ Hydrogen Sulfide Odd ☐ Oxidized Rhizosphere	r (C1) s along Livi	ng Roots (C3)	☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)
Vetland Hydica Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depos	rology Indicators: htors (any one indicato /ater (A1) or Table (A2) (A3) os (B1) (Nonriverine) Deposits (B2) (Nonriverine	verine) 3)	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced	r (C1) s along Livii Iron (C4)		☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)
Vetland Hydicatrimary Indicatrimary Indicatrimary Indicatrimary High Wate Saturation Water Mark Sediment Indicatrimary Surface Sc	rology Indicators:  ators (any one indicato fater (A1) Fr Table (A2) (A3) KS (B1) (Nonriverine) Deposits (B2) (Nonriverine oil Cracks (B6)	/erine) e)	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior	r (C1) s along Livi Iron (C4) i in Plowed		☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sate	ter Marks (B1) (Riverine)  Iliment Deposits (B2) (Riverine)  It Deposits (B3) (Riverine)  Inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)  uration Visible on Aerial Imagery (C8)
Vetland Hydica Trimary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Inundation	rology Indicators:  ators (any one indicato fater (A1) Fr Table (A2) (A3) (S (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Imag	/erine) e)	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced	r (C1) s along Livi Iron (C4) i in Plowed		☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)  uration Visible on Aerial Imagery (Ctilow Aquitard (D3)
Vetland Hydica Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Surface So Inundation Water-Staf	rology Indicators:  ators (any one indicato fater (A1)  Table (A2) (A3)  (A3)  (B1) (Nonriverine)  Deposits (B2) (Nonriverine  oil Cracks (B6)  Visible on Aerial Imag  ned Leaves (B9)	/erine) e)	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior	r (C1) s along Livi Iron (C4) i in Plowed		☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati	ter Marks (B1) (Riverine)  Iliment Deposits (B2) (Riverine)  It Deposits (B3) (Riverine)  Inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)  uration Visible on Aerial Imagery (C8)
Vetland Hydromary Indicated Surface Water Marker Sediment In Drift Deposition Surface Scale Inundation Water-Staileld Observal	rology Indicators: ators (any one indicato fater (A1) or Table (A2) (A3) os (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Imag ned Leaves (B9) ottions:	verine) s) gery (B7)	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)	r (C1) s along Livi Iron (C4) i in Plowed		☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)  uration Visible on Aerial Imagery (Ctilow Aquitard (D3)
Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Surface So Inundation Water-Staileld Observa	rology Indicators: ators (any one indicato /ater (A1) or Table (A2) (A3) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	/erine) e) gery (B7) □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odc ☐ Oxidized Rhizosphere ☐ Presence of Reduced ☐ Recent Iron Reductior ☐ Other (Explain in Remains	r (C1) s along Livi Iron (C4) i in Plowed		☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)  uration Visible on Aerial Imagery (Ctilow Aquitard (D3)
Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Inundation Water-Staileld Observa	rology Indicators:  ators (any one indicato fater (A1)  Fr Table (A2)  (A3)  (A6)  Composits (B2) (Nonriverine)  Deposits (B3) (Nonriverine  Dil Cracks (B6)  Visible on Aerial Image  ned Leaves (B9)  attors:  Present?  Yes I	verine) 3) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)  epth (inches): pth (inches):	r (C1) s along Livi Iron (C4) i in Plowed	Soils (C6)	☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Satt ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct illow Aquitard (D3) C-Neutral Test (D5)
Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Inundation Water-Staileld Observa	rology Indicators:  ators (any one indicato fater (A1)  Fr Table (A2)  (A3)  KS (B1) (Nonriverine)  Deposits (B2) (Nonriverine bil Cracks (B6)  Visible on Aerial Image ned Leaves (B9)  Attors:  Present?  Yes [ Sent?  Yes [	verine) 3) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odc ☐ Oxidized Rhizosphere ☐ Presence of Reduced ☐ Recent Iron Reductior ☐ Other (Explain in Remains	r (C1) s along Livi Iron (C4) i in Plowed	Soils (C6)	☐ Wa ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Satt ☐ Sha	ter Marks (B1) (Riverine)  liment Deposits (B2) (Riverine)  t Deposits (B3) (Riverine)  inage Patterns (B10)  -Season Water Table (C2)  Muck Surface (C7)  yfish Burrows (C8)  uration Visible on Aerial Imagery (Ctilow Aquitard (D3)
Vetland Hydica Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Surface So Inundation Water-Stai Ield Observa urface Water Vater Table Presencludes capill	rology Indicators:  ators (any one indicato (ater (A1)  at Table (A2) (A3)  as (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6)  Visible on Aerial Image ned Leaves (B9)  atlons:  Present?  Yes [ sent?  Yes [ ary fringe)	/erine) e) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)  epth (inches): epth (inches):	r (C1) s along Livi Iron (C4) i in Plowed i arks)	Soils (C6)  Wetland Hy	☐ War ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct illow Aquitard (D3) C-Neutral Test (D5)
Primary Indicated Surface Water Marker Sediment In Deposition of Surface Sediment In Sedim	rology Indicators:  ators (any one indicato (ater (A1)  at Table (A2) (A3)  as (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6)  Visible on Aerial Image ned Leaves (B9)  atlons:  Present?  Yes [ sent?  Yes [ ary fringe)	/erine) e) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)  epth (inches): pth (inches):	r (C1) s along Livi Iron (C4) i in Plowed i arks)	Soils (C6)  Wetland Hy	☐ War ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct illow Aquitard (D3) C-Neutral Test (D5)
Vetland Hydica Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Surface So Inundation Water-Stai ield Observa urface Water Vater Table Presencludes capill escribe Reco	rology Indicators:  ators (any one indicato (ater (A1)  at Table (A2) (A3)  as (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6)  Visible on Aerial Image ned Leaves (B9)  atlons:  Present?  Yes [ sent?  Yes [ ary fringe)	/erine) e) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)  epth (inches): epth (inches):	r (C1) s along Livi Iron (C4) i in Plowed i arks)	Soils (C6)  Wetland Hy	☐ War ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct illow Aquitard (D3) C-Neutral Test (D5)
Vetland Hydromany Indica  Surface W  High Water  Saturation  Water Mark  Sediment I  Drift Depose  Inundation  Water-Stail  Water Water  Vater Table Presencludes capill	rology Indicators:  ators (any one indicato (ater (A1)  at Table (A2) (A3)  as (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6)  Visible on Aerial Image ned Leaves (B9)  atlons:  Present?  Yes [ sent?  Yes [ ary fringe)	/erine) e) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)  epth (inches): epth (inches):	r (C1) s along Livi Iron (C4) i in Plowed i arks)	Soils (C6)  Wetland Hy	☐ War ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct illow Aquitard (D3) C-Neutral Test (D5)
Vetland Hydica Primary Indica Surface W High Wate Saturation Water Mark Sediment I Drift Depose Inundation Water-Stail Water Table Presencludes capill escribe Reco	rology Indicators:  ators (any one indicato (ater (A1)  at Table (A2) (A3)  as (B1) (Nonriverine) Deposits (B2) (Nonriverine bil Cracks (B6)  Visible on Aerial Image ned Leaves (B9)  atlons:  Present?  Yes [ sent?  Yes [ ary fringe)	/erine) e) gery (B7) □ No ⊠ De □ No ⊠ De	☐ Salt Crust (B11) ☐ Biotic Crust (B12) ☐ Aquatic Invertebrates (☐ Hydrogen Sulfide Odd☐ Oxidized Rhizosphere☐ Presence of Reduced☐ Recent Iron Reductior☐ Other (Explain in Remains)  epth (inches): epth (inches):	r (C1) s along Livi Iron (C4) i in Plowed i arks)	Soils (C6)  Wetland Hy	☐ War ☐ Sec ☐ Drif ☐ Dra ☐ Dry ☐ Thin ☐ Cra ☐ Sati ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Ct illow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County: Hermiston S	ampling Daf	te: 7/31/12	2	
Applicant/Owner: State: OR Sampling Point: 5	55			
Investigator(s): MRS Section, Township, Range:	T4N, R 28F	E, Sec. 11		
Landform (hillslope, terrace, etc.): Flat Local relief (conca	ave, convex	, none): N	lone Slope (%)	<b>)</b> :
Subregion (LRR):D Lat: 45.8489 Long: -119.264		•	, , ,	
Soil Map Unit Name: Winchester Sand NWI classification				
Are climatic / hydrologic conditions on the site typical for t		vear? Yes	s⊠ No □ (Ifi	no explain in Remarks )
Are Vegetation □, Soil □, or Hydrology □ significantly				nstances" present? Yes 🖾 No 🔲
Are Vegetation □, Soil □, or Hydrology □ naturally pro				any answers in Remarks.)
		•	•	ocations, transects, important features, etc.
Hadron In the Manatation Consent On 1997	······································			
Hydrophytic Vegetation Present? Yes ☐ No ☒ Hydric Soil Present? Yes ☐ No ☒		1	s the Sampled	d Area
Wetland Hydrology Present? Yes ☐ No ☒		١	within a Wetla	nd? Yes □ No ⊠
Remarks:				
VEGETATION				
Tree Stratum (Plot size: 30)	Absolute		nant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species r	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50 (A/B)
Total Cov Sapling/Shrub Stratum (Plot size: 5')	'er:			Prevalence Index worksheet:
1.Eleagnus angustifolia	40	х	FAC	Total % Cover of: Multiply by:
2.			, , , <del>,</del>	OBL species x1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
				UPL species x 5 =
Total Cov	er: <u>40</u>			Column Totals:(A)
Herb Stratum (Plot size: 5')				
1.Chloris cuculata	90	х	NOL.	Prevalence index = B/A =
2.Lactuca sp.	10		FAC- FACU	Hydrophytic Vegetation Indicators:
3. Juncus arcticus	t		FACW	Dominance Test is >50%  Prevalence Index is =3.01
4.			17.011	Morphological Adaptations <sup>1</sup> (Provide supporting
5.				data in Remarks or on a separate sheet)
6.		-		Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
Total Cov	'er' 180			
Woody Vine Stratum (Plot size: 5')	UI. <u>100</u>			Hydrophytic
1.				Vegetation
2.				Present? Yes □ No ☑
Total Cov	ег:			Remarks:
% Bare Ground in Herb Stratum0	ver of Biotic	c Crust		

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SOIL									Sampling Point: 55
Profile Desc	ription: (Desc	ribe to the depti	h needed to doc	ument the	indicator	or conf	rm the	bsence	of indicators.)
Depth	Mat			lox Featur					
(inches)	Color (mois	t) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Te	exture	Remarks
0-16	2.5Y3/2	100					S		
							<del> </del>		
					-				
		=Depletion, RM≕				re Lining	, RC=Ro	ot Chann	nel, M=Matríx.
Hydric Soil I	ndicators: (Ap	oplicable to all L	RRs, unless oth	erwise no	oted.)		In	dicators	for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol			Sandy Red						uck (A9) ( <b>LRR C</b> )
	ipedon (A2)		Stripped N						uck (A10) (LRR B)
☐ Black Hi	stic (A3) n Sulfide (A4)		☐ Loamy Mu				L		ed Vertic (F18)
	Layers (A5) (L	RR C)	Loamy Gle				Ļ		rent Material (TF2) Explain in Remarks)
	k (A9) (LRR D	,	☐ Redox Dai	` '			h	l Other (t	
	Below Dark Su		☐ Depleted D						
	k Surface (A12		☐ Redox De	pressions					
-	cky Mineral (S	•	☐ Vernal Poo	is (F9)			<sup>3</sup> lr	dicators	of hydrophytic vegetation and
	eyed Matrix (S4							wetland	hydrology must be present.
	ayer (if presen	it):							-
Type:									
Depth (inc	nes):						Hy	dric Soil	Present? Yes ☐ No ⊠
Remarks:									
									•
1YDROLOG	Υ								
Wetland Hyd	ology Indicate	ors:		***************************************			***************************************	Secon	dary Indicators (2 or more required)
Primary Indica	tors (any one i	ndicator is suffici	ent)					☐ Wa	ater Marks (B1) ( <b>Riverine</b> )
☐ Surface W	ater (A1)		☐ Salt Crus	t (B11)				☐ Se	diment Deposits (B2) (Riverine)
☐ High Wate	r Table (A2)		☐ Biotic Cru	st (B12)					ift Deposits (B3) (Riverine)
☐ Saturation	(A3)		☐ Aquatic In	vertebrate	s (B13)			☐ Dra	ainage Patterns (B10)
☐ Water Marl	s (B1) (Nonriv	rerine)	☐ Hydrogen	Sulfide C	dor (C1)			☐ Dr	y-Season Water Table (C2)
	Deposits (B2) (	,	☐ Oxidized	Rhizosphe	eres along l	_iving Ro	oots (C3	) 🔲 Thii	n Muck Surface (C7)
☐ Drift Depo	sits (B3) ( <b>Nonr</b> i	iverine)	Presence	of Reduc	ed Iron (C4	)		☐ Cra	ayfish Burrows (C8)
☐ Surface So			☐ Recent Ire	on Reduct	ion in Plow	ed Soils	(C6)	☐ Sa	turation Visible on Aerial Imagery (C9)
Inundation	Visible on Aeri	ial Imagery (B7)	☐ Other (Exp	lain in Re	marks)			☐ Sh	allow Aquitard (D3)
☐ Water-Stai	ned Leaves (B	9)						☐ FA	C-Neutral Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes 🗌 No 🛭	Depth (inches):						
Water Table P	esent?	Yes 🗌 No 🛭	Depth (inches):						
Saturation Pre (includes capill	ary fringe)		Depth (inches):						Present? Yes □ No ⊠
Describe Reco	rded Data (stre	am gauge, moni	toring well, aerial	photos, p	revious ins	pections	), if avai	lable:	

Project/Site: Hermiston LWI City/County: Hermiston Sam	pling Date:	: 7/31/	12		
Applicant/Owner: State: OR Sampling Point: 56					
Investigator(s): MRS Section, Township, Range: T4	IN. R28E. S	Sec 11	ı		
Landform (hillslope, terrace, etc.): Flat Local relief (concave				١٠	
Subregion (LRR):D Lat: 45.8489 Long: -119,2641	Datum	•	4.000 (,0,	,	
Soil Map Unit Name: Winchester Sand NWI classification:	Datan				
Are climatic / hydrologic conditions on the site typical for this	tima afua	~~? V	57 N:- [**] (1£	and a contain to Demonstra V	
Are Vegetation _, Soil _, or Hydrology _ significantly dis					_
,				mstances" present? Yes 🔀 No J	
Are Vegetation □, Soii □, or Hydrology □ naturally proble  SUMMARY OF FINDINGS – Attach site map s				n any answers in Remarks.)	nutant faatuur
- Attach site map		Saill	ping ponit i	iocadons, transects, impe	Trail reatures, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☒			is the Sample	d Area	
Hydric Soil Present? Yes ☐ No ☒			within a Wetla		
Wetland Hydrology Present? Yes ☐ No ☒ Remarks:					
Actilates.					
VEGETATION					
Tree Stratum (Plot size: 30) %	Absolute		inant Indicator ? Status	Dominance Test worksheet:	
1.	Tover of	I	<u>Jiaius</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
2,					, (, )
3.				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
4.					= (-/
	.1	<b></b>		Percent of Dominant Species That Are OBL, FACW, or FAC:	50 (A/B)
Total Cover:	***************************************			Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 5')	1	·····		Total % Cover of:	
1.				OBL species	
3.				FACW species	***********
4.					x 3 =
5.				FACU species	
U.	<u> </u>	L		UPL species	x5=
Total Cover:				Column Totals:(8)	(A)
Herb Stratum (Plot size: 5')	T 45 1		T 540111		
1. Juncus arcticus 2. Distichlis spicata	15 30		FACW	Prevalence Index = B/A = Hydrophytic Vegetation Indic	
3.Lactuca serriola	25	x	FACU	Dominance Test is >50%	
4.Asclepias speciosa	10		FAC	☐ Prevalence Index is ≈3.0	
5.Hordeum jubatum	5	***************************************	FAC	Morphological Adaptatio	ns¹ (Provide supporting
6.	<u> </u>	•••	7,10	data in Remarks or on a	•
7.		·····		Problematic Hydrophytic	c Vegetation¹ (Explain)
8.				1	
	<u> </u>			<sup>1</sup> Indicators of hydric soil and we be present.	riand hydrology must
Total Cover:	<u>85</u>				***************************************
Woody Vine Stratum (Plot size: 5')				Hydrophytic	
1. 2.				Vegetation Present? Yes ☐	No 🗵
Z. Total Cover:					
	0-1	nade o	San card	Remarks:	
% Bare Ground in Herb Stratum15 litter %	Cover of B	NOTIC C	rust		

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Profile Descr	rintion: (Describe t							SENCE OF	f indicators.)
	•	to the det			licator	or confi	m the ab	301.00 0	·
Depth (inches)	Matrix Color (moist)	%	Color (moist)	edox Features %	Type <sup>1</sup>	_Loc <sup>2</sup>	- <u>Text</u>	ure	Remarks
0-16	5YR3/2	99	5YR3/3	1 C		M	S		
0-10	J11(0/2		0110/0			***			
		**							
		······································							
_				2			55.5		
	ncentration, D=Depl ndicators: (Applica					e Lining,			or Problematic Hydric Soils <sup>3</sup> :
Histosol (	•	abie to ali	☐ Sandy R		·- <i>)</i>				ck (A9) (LRR C)
	ipedon (A2)			Matrix (S6)					ck (A3) (LRR B)
Black His				Mucky Mineral (F	<del>-</del> 1)				Vertic (F18)
	n Sulfide (A4)			Gleyed Matrix (F					ent Material (TF2)
	Layers (A5) (LRR C	<b>;</b> )	☐ Depleted	d Matrix (F3)	·			Other (E:	xplain in Remarks)
	k (A9) (LRR D)			ark Surface (F6	•				
-	Below Dark Surface	(A11)	•	Dark Surface (					
	k Surface (A12)			epressions (F8)	)		31		E handre de alte a constatte de const
•	cky Mineral (S1) eyed Matrix (S4)		☐ Vernal P	DOIS (F9)					f hydrophytic vegetation and ydrology must be present.
	ayer (if present):	· <del>//</del>					V	rottatio ii	ydrology must be present.
Type:									
Depth (inch	nes):						Hvdr	ic Soil P	resent? Yes ☐ No ⊠
Remarks:									
Cinano.	•								
etland Hydr	ology Indicators:								ary Indicators (2 or more required)
etland Hydr rimary Indica	ology Indicators: tors (any one indica	ator is suffi						☐ Wat	ter Marks (B1) (Riverine)
<b>/etland Hydr</b> rimary Indica ] Surface Wi	rology Indicators: tors (any one indica dater (A1)	itor is suffi	☐ Salt Cri					☐ Wat	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
<b>/etland Hyd</b> r rimary Indica ] Surface Wo ] High Water	rology Indicators: tors (any one indica ater (A1) r Table (A2)	ator is suffi	☐ Salt Cri ☐ Biotic C	Crust (B12)				☐ Wat	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
/etland Hydr rimary Indica ] Surface Wa ] High Water ] Saturation (	rology Indicators: tors (any one indica ater (A1) r Table (A2) (A3)		☐ Salt Cri ☐ Biotic C ☐ Aquatic	Crust (B12) Invertebrates (E	•			☐ Wat	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
/etland Hydr rimary Indicat ] Surface Wi ] High Water ] Saturation ( ] Water Mark	rology Indicators: tors (any one indical later (A1) r Table (A2) (A3) (s (B1) (Nonriverina	<b>e</b> )	☐ Salt Cri ☐ Blotic C ☐ Aquatic ☐ Hydrog	Crust (B12) Invertebrates (E en Sulfide Odor	(C1)			☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry-	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Vetland Hydr rimary Indicat Surface Wo High Water Saturation ( Water Mark Sediment I	rology Indicators: stors (any one indical dater (A1) or Table (A2) (A3) (A3) (A6) (Nonriverine Deposits (B2) (Nonri	e) riverine)	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres	(C1) along	-	oots (C3)	☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry- ☐ Thin	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7)
Vetland Hydr rimary Indica Surface Wo High Water Saturation ( Water Mark Sediment D Drift Depos	rology Indicators: utors (any one indical later (A1) r Table (A2) (A3) (S (B1) (Nonriverine Deposits (B2) (Nonriverine sits (B3) (Nonriverine	e) riverine)	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Presen	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres ce of Reduced I	(C1) along ron (C4	)		☐ Wat ☐ Sed ☐ Driff ☐ Dra ☐ Dry ☐ Thin ☐ Cra	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
Vetland Hydr rimary Indicat Surface Wi High Water Saturation ( Water Mark Sediment I Drift Depos Surface So	rology Indicators: tors (any one indical ater (A1) or Table (A2) (A3) os (B1) (Nonriverinal Deposits (B2) (Nonristis (B3) (Nonriverinal	e) riverine) ne)	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Present ☐ Recent	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres de of Reduced I Iron Reduction	(C1) along ron (C4 in Plow	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry- ☐ Thin ☐ Cray ☐ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Vetland Hydrimary Indicat Surface With Mater Saturation ( Water Mark Sediment D Drift Depose Inundation	rology Indicators: tors (any one indicators (ater (A1) or Table (A2) (A3) os (B1) (Nonriverination (B2) (Nonriverination (B3) (Nonriverination (B3) (Nonriverination (B6)) Visible on Aerial Im	e) riverine) ne)	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Present ☐ Recent	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres ce of Reduced I	(C1) along ron (C4 in Plow	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry ☐ Thin ☐ Cray ☐ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aeriał Imagery (Cillow Aquitard (D3)
/etland Hydr rimary Indica Surface Wi High Water Saturation ( Water Mark Sediment D Drift Depos Surface So Inundation Water-Stair	rology Indicators:  tors (any one indicators (ater (A1))  r Table (A2)  (A3)  (S (B1) (Nonrivering (B2) (Nonrivering (B3)  e) riverine) ne)	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Present ☐ Recent	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres de of Reduced I Iron Reduction	(C1) along ron (C4 in Plow	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry ☐ Thin ☐ Cray ☐ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C	
Vetland Hydrimary Indication  Surface With Mater Mark Sediment Description  Surface Solution (Mater Solution)  Water Stair Mater Stair (Mater Stair	rology Indicators: ators (any one indical ater (A1) or Table (A2) (A3) as (B1) (Nonriverine Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Im ned Leaves (B9) ations:	e) riverine) ne) nagery (B7	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres ce of Reduced I Iron Reduction Explain in Remai	(C1) along ron (C4 in Plow	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry ☐ Thin ☐ Cray ☐ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aeriał Imagery (Cillow Aquitard (D3)
Vetland Hydrorimary Indicators Surface Water Mark Sediment Dorift Deposion Surface Solumbation Water-Stair Water Water Water Stair Water Water Water Water Water Water Water Water Surface Water Water Surface Water	rology Indicators: stors (any one indicators (any one indicators (A1) or Table (A2) (A3) os (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonr	e) riverine) ne) nagery (B7	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Present ☐ Recent ☐ Other (E	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres ce of Reduced I Iron Reduction explain in Remai	(C1) along ron (C4 in Plow	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry ☐ Thin ☐ Cray ☐ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aeriał Imagery (Cillow Aquitard (D3)
Vetland Hydrominary Indicators and Surface Water Mark Sediment Deposes Inundation Water-Stair Veter Table Property Indicators water Indicators water Indicators water Indicators water Table Property Indicators water Ind	rology Indicators:  tors (any one indicators (ater (A1))  r Table (A2)  (A3)  ts (B1) (Nonrivering (B2) (Nonrivering (B3)  e) riverine) ne) nagery (B7	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent Other (E	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres de of Reduced I Iron Reduction explain in Remai	(C1) along ron (C4 in Plow	) ed Soils	(C6)	☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)	
Primary Indicated Surface Water Table Presturation Presturation Presturation Presturation Presturation Presturation Presturation Presturation Presturation Presturation Presturation Presturace Water Presturation Pr	rology Indicators:  tors (any one indicators (ater (A1))  r Table (A2)  (A3)  ts (B1) (Nonrivering (B2) (Nonrivering (B3)  e) riverine) ne) nagery (B7	☐ Salt Cri ☐ Biotic C ☐ Aquatic ☐ Hydrog ☐ Oxidize ☐ Present ☐ Recent ☐ Other (E	Crust (B12) Invertebrates (E en Sulfide Odor d Rhizospheres de of Reduced I Iron Reduction explain in Remai	(C1) along ron (C4 in Plow	) ed Soils	(C6)	☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aeriał Imagery (Cillow Aquitard (D3)	
Vetland Hydroprimary Indicators Surface Water Mark Sediment Double Surface Soon Inundation Water-Stair Veter Table Presenciudes capilla	rology Indicators:  stors (any one indicators (ater (A1))  r Table (A2)  (A3)  (A5)  (A6)  Deposits (B2) (Nonrivering (A2))  Sits (B3) (Nonrivering (A2))  Visible on Aerial Impled Leaves (B9)  Intions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	e) riverine) ne) nagery (B7 s	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent Other (E	Crust (B12) Invertebrates (Een Sulfide Odor d' Rhizospheres ce of Reduced II. Iron Reduction Explain in Remails):  3): 3):	(C1) along ron (C4 in Plow rks)	) ed Soils We	(C6)	☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)
Vetland Hydroprimary Indicators Surface Water Mark Sediment Double Surface Soon Inundation Water-Stair Veter Table Presenciudes capilla	rology Indicators:  tors (any one indicators (ater (A1))  r Table (A2)  (A3)  ts (B1) (Nonrivering (B2) (Nonrivering (B3)  e) riverine) ne) nagery (B7 s	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent Other (E	Crust (B12) Invertebrates (Een Sulfide Odor d' Rhizospheres ce of Reduced II. Iron Reduction Explain in Remails):  3): 3):	(C1) along ron (C4 in Plow rks)	) ed Soils We	(C6)	☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)	
Primary Indicat Surface With Water Mark Sediment Deposes Surface Solundation Water-Stair Water Table Presencludes capillate	rology Indicators:  stors (any one indicators (ater (A1))  r Table (A2)  (A3)  (A5)  (A6)  Deposits (B2) (Nonrivering (A2))  Sits (B3) (Nonrivering (A2))  Visible on Aerial Impled Leaves (B9)  Intions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	e) riverine) ne) nagery (B7 s	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent Other (E	Crust (B12) Invertebrates (Een Sulfide Odor d' Rhizospheres ce of Reduced II. Iron Reduction Explain in Remails):  3): 3):	(C1) along ron (C4 in Plow rks)	) ed Soils We	(C6)	☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)
Vetland Hydr Primary Indicat Surface Water Saturation ( Water Mark Sediment D Drift Depose Surface So Inundation Water-Stain Vater Table Presenctives capillates capillates capillates	rology Indicators:  stors (any one indicators (ater (A1))  r Table (A2)  (A3)  (A5)  (A6)  Deposits (B2) (Nonrivering (A2))  Sits (B3) (Nonrivering (A2))  Visible on Aerial Impled Leaves (B9)  Intions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	e) riverine) ne) nagery (B7 s	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent Other (E	Crust (B12) Invertebrates (Een Sulfide Odor d' Rhizospheres ce of Reduced II. Iron Reduction Explain in Remails):  3): 3):	(C1) along ron (C4 in Plow rks)	) ed Soils We	(C6)	☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)
Vetland Hydrimary Indicator Indicato	rology Indicators:  stors (any one indicators (ater (A1))  r Table (A2)  (A3)  (A5)  (A6)  Deposits (B2) (Nonrivering (A2))  Sits (B3) (Nonrivering (A2))  Visible on Aerial Impled Leaves (B9)  Intions:  Present?  Yesent?  Yesent?  Yesent?  Yesent?  Yesent?  Yeary fringe)	e) riverine) ne) nagery (B7 s	Salt Cri Biotic C Aquatic Hydrog Oxidize Present Recent Other (E	Crust (B12) Invertebrates (Een Sulfide Odor d' Rhizospheres ce of Reduced II. Iron Reduction Explain in Remails):  3): 3):	(C1) along ron (C4 in Plow rks)	) ed Soils We	(C6)	☐ Wat ☐ Sed ☐ Drift ☐ Drai ☐ Dry- ☐ Thin ☐ Cra ☐ Satu ☐ Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Hermiston LWI City/County	: Hermiston Sampl	ling Date:	: 7/31/1	12	
Applicant/Owner: State: OR Sa	mpling Point: 57				
Investigator(s): MRS Section, Tow	vnship, Range: T4N	I. R28E. I	8000		
Landform (hillslope, terrace, etc.): Floodpla				convex none).	None Slone (%):0.3%
	_ong: -119,3181	Datum		0011VOX, 110110 <i>).</i>	(70):0-576
Soil Map Unit Name: Gravel Pits NWI clas	•	Datuii	1.		
Are climatic / hydrologic conditions on the		ima afua	or? Vo		fine cyclein in Demonto )
Are Vegetation □, Soil □, or Hydrology □					
Are Vegetation □, Soil □, or Hydrology □					ımstances" present? Yes ⊠ No □
					n any answers in Remarks.)
SUMMARY OF FINDINGS – Atta	ch site map sh	nowing	samı	pling point	locations, transects, important features, etc
Hydrophytic Vegetation Present?	Yes ⊠ No 🏻			Is the Sample	d Arno
1	Yes 🛛 No 🗌			within a Wetla	
L	Yes ⊠ No 🗌	***************************************			165 🔼 160 🛄
Remarks:Could not obtain soil sample. So	oil kept disenigrating	g off the s	shovel.		
VEGETATION					
Tree Stratum (Plot size: 30)		bsolute		nant Indicator	Dominance Test worksheet:
1.		over Sp	ecies /	_Status_	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.					That Are OBL, FACW, or FAC: 2 (A)
3.					Total Number of Dominant Species Across All Strata: 2 (B)
4,					
					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
	Total Cover:				· · ·
Sapling/Shrub Stratum (Plot size: 5')					Prevalence Index worksheet:
1.Eleagnus angustifolia		80	х	FAC	Total % Cover of:Multiply by:
2.					OBL species x1=
3.					FACW species x 2 = FAC species x 3 =
4.					FAC species x 3 =
5.					UPL species x 5 ≂
					Column Totals: (A)
Herb Stratum (Plot size: 5')	Total Cover: 8	<u>10</u>			(B)
1.Lolium perenne		30	X	FAC	Prevalence Index = B/A =
2.Onopordum acanthium	!	5		NOL	Hydrophytic Vegetation Indicators:
3.					
4.					Prevalence Index is =3.01
5.				***************************************	Morphological Adaptations (Provide supporting
6.					data in Remarks or on a separate sheet)
7.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
					be present.
Woody Vine Stratum (Plot size: 5')	Total Cover: 3	<u>35</u>			
1.					Hydrophytic
2.					Vegetation Present? Yes ⊠ No □
	Total Cover:				
% Bare Ground in Herb Stratum50_		of Blotic	Cruct		Remarks:
76 Dare Ground in Herb Stratum50	% Cover	OITOIC TO	orust		

SOIL			Sampling Point: 57
Profile Description: (Describe to the depth	needed to document the indicator or	confirm the a	bsence of indicators.)
Depth <u>Matrix</u>	Redox Features		
(inches) Color (moist) %	Color (moist) % Type' _	Loc <sup>2</sup> Tex	exture Remarks
Type: C=Concentration, D=Depletion, RM≃R	Poduced Matrix 2 ocation: PL=Pore L	Lining RC=Ro	oot Channel, M=Matrix.
Type: C=Concentiation, D=Depletion, Rivi=R			dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	☐ Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
☐ Histic Epipedon (A2)	Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	$\boxtimes$	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
☐ Thick Dark Surface (A12) ☐ Sandy Mucky Mineral (S1)	<ul><li>☐ Redox Depressions (F8)</li><li>☐ Vernal Pools (F9)</li></ul>	310	dicators of hydrophytic vegetation and
Sandy Mittery Materia (S1)  Sandy Gleyed Matrix (S4)	☐ veiligi coois (ca)		wetland hydrology must be present.
Restrictive Layer (if present):		<del></del>	Welland Hydrology made be processed
Type:			
Depth (inches):		Hvc	dric Soil Present? Yes ⊠ No □
Remarks:			
Soil Sample could not be obtained. Kept disen	plareting off the shovel		
50% Outp. 5 55%	agrating on the energy.		
YDROLOGY			
Wetland Hydrology Indicators:			Carandary Indicators (2 or more results 1)
Primary Indicators (any one indicator is sufficie	nn#\		Secondary Indicators (2 or more required)
☐ Surface Water (A1)			☐ Water Marks (B1) (Riverine)
☐ Surrace vvater (A1) ☐ High Water Table (A2)	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
☑ Aigh Water Table (A2)  ☑ Saturation (A3)	☐ Biotic Crust (B12)		☐ Drift Deposits (B3) (Riverine)
☑ Saturation (A3) ☑ Water Marks (B1) (Nonriverine)	Aquatic Invertebrates (B13)		☐ Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)	ina Basta (C3)	☐ Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Oxidized Rhizospheres along Livin	ing Koots (Us)	
☐ Surface Soil Cracks (B6)	Presence of Reduced Iron (C4)	Calla (CG)	Crayfish Burrows (C8)
☐ Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Plowed	Solis (Co)	Saturation Visible on Aerial Imagery (C9
☐ Water-Stained Leaves (B9)	Other (Explain in Remarks)		Shallow Aquitard (D3)
ield Observations:		Т	☐ FAC-Neutral Test (D5)
	Depth (inches): 6"		
	Depth (inches):		
	Depth (inches): Surf	Watland Us	-do-fami Brasanta Van Ma Ma Ma
includes capillary fringe)		. [	ydrology Present? Yes 🛛 No 🗌
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspec	ctions), if availa	able:
demarks:			
ellans.			

Project/Site: Hermiston LWI City/County:	Hermiston Sampling Date	e: 7/31/	/12		
Applicant/Owner: State: OR Sam	ıpling Point: 58				
investigator(s): MRS Section, Town	ship, Range: T4N, R28E,	B000			
Landform (hillslope, terrace, etc.): Floodplain	Terrace Local relief (co	ncave,	, convex, none): i	None Slope (%):0-3%	
	ong: -119.3181 Datu		,	, , ,	
Soil Map Unit Name: Gravel Pits NWI class	ification:				
Are climatic / hydrologic conditions on the si		ear? Y	'es⊠No∏ (If	no evolain in Remarks )	
Are Vegetation ☐, Soil ☐, or Hydrology ☐				mstances" present? Yes 🗵 No 🗍	*
Are Vegetation □, Soil □, or Hydrology □				n any answers in Remarks.)	
SUMMARY OF FINDINGS - Attac	- "		•	•	ant features, etc.
				***************************************	
	′es ⊠ No □ ′es □ No ⊠		is the Sample	d Area	
-	es ☐ No ⊠		within a Wetla	nd? Yes 🗌 No 🔀	
Remarks:Compacted Dirt Road		1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
			······································		
VEGETATION					
Tree Stratum (Plot size: 30)	Absolute <u>% Cover</u> S		ninant Indicator ? Status	Dominance Test worksheet:	
1.		7		Number of Dominant Species That Are OBL, FACW, or FAC: 1	(A)
2.				Total Number of Dominant	` ,
3.		-	~	1	(B)
4.		<b>†</b>		Percent of Dominant Species	
1				1 · · · · · · · · · · · · · · ·	00 (A/B)
Conline/Check Ctrotum (Diet eine El)	Total Cover:			Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 5')		1			Multiply by:
2.		-		OBL species	x1=
3.		<b>-</b>		FACW species	_ x 2 =
4.		-		FAC species	x3=
5.		-		FACU species	_ ×4=
	<u></u>			li .	_ x 5 =
Herb Stratum (Plot size: 5')	Total Cover:			Column Totals:	_ (A)
1.Bromus tectorum	30	х	FAC	Prevalence Index = B/A =	
2.				Hydrophytic Vegetation Indicator	rs:
3.		<del> </del>		_ ☑ Dominance Test is >50%	
4.				Prevalence Index is =3.01	
5.				Morphological Adaptations¹ data in Remarks or on a ser	
6.				Problematic Hydrophytic Ve	•
7.					garanti (mpiani)
8.				<sup>1</sup> Indicators of hydric soil and wetlan	d hydrology must
	Total Cover: 30			be present.	
Woody Vine Stratum (Plot size: 5')	*****			Hydrophytic	
1.				Vegetation	=
2.				Present? Yes 🗵	No
	Total Cover:			Remarks:	
% Bare Ground in Herb Stratum70_	% Cover of Blotic	Crust			

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	Matrix (moist)	%	Color (moist)	dox Featur %	Type	Loc <sup>2</sup>	<u>Te</u>	xture	Remarks
0-18 2.5Y	3/2	100					S		
							***************************************		
			<u>-</u>						
			· · · · · · · · · · · · · · · · · · ·						
	***************************************					*****	,		
/pe: C=Concentrati						e Lining,			el, M=Matrix.
dric Soil Indicators Histosol (A1)	s: (Applicai	ole to all L			oted.)				or Problematic Hydric Soils <sup>3</sup> ;
Histosol (A1) Histic Epipedon (	۸۵۱		Sandy Red						ck (A9) (LRR C)
Black Histic (A3)	MZ)		Stripped N	, ,					ck (A10) ( <b>LRR B</b> ) I Vertic (F18)
Hydrogen Sulfide	(A4)		Loamy Gle	•					ent Material (TF2)
Stratified Layers (			☐ Depleted N						xplain in Remarks)
1 cm Muck (A9) (L			☐ Redox Da					, , , , , , , , , , , , , , , , , , , ,	,
Depleted Below Da		A11)	☐ Depleted [	Dark Surfa	ce (F7)				
Thick Dark Surface			Redox De		(F8)		_		
Sandy Mucky Mine			☐ Vernal Poo	ls (F9)			<sup>3</sup> ln		f hydrophytic vegetation and
Sandy Gleyed Mate strictive Layer (if p						·····		wetland h	ydrology must be present.
Type:	nesenij.								
Depth (inches):							61.00	inin Call D	
marks:							пус	ric Soil P	resent? Yes 🗌 No 🛚
empacted dirt road.									
tland Hydrology In								Second	ary Indicators (2 or more required)
tland Hydrology In mary Indicators (any	one indicate	or is sufficie	ent)						ary Indicators (2 or more required) ter Marks (B1) (Riverine)
tland Hydrology In mary Indicators (any Surface Water (A1)	one indicate	or is sufficie	ent)	t (B11)				☐ Wat	
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (	one indicate	or is sufficie	☐ Salt Crusi☐ Biotic Cru	st (B12)				☐ Wat	ter Marks (B1) ( <b>Riverine</b> )
tland Hydrology In mary Indicators (any Surface Water (A1) High Water Table ( Saturation (A3)	one indicato A2)		☐ Salt Crus	st (B12)	s (B13)			☐ Wat ☐ Sed ☐ Driff ☐ Drai	ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
etland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N	one indicato A2) Vonriverine)	ı	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen	st (B12) vertebrate Sulfide O	dor (C1)			☐ Wat ☐ Sed ☐ Driff ☐ Drai	ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> )
etland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits	one indicate A2) Nonriverine) (B2) (Nonriv	verine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized	st (B12) vertebrate Sulfide O Rhizosphe	dor (С1) res along I	-	ots (C3)	☐ Wat ☐ Sed ☐ Driff ☐ Drai	ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
etland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3)	one indicate A2) Nonriverine) (B2) (Nonriverine)	verine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence	st (B12) vertebrate Sulfide O Rhizosphe of Reduce	dor (C1) res along l ed Iron (C4	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry- ☐ Thin ☐ Cray	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8)
etland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3) (Surface Soil Cracks	one indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine)	verine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Inc	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	)		☐ Wat ☐ Sed ☐ Driff ☐ Drai ☐ Dry- ☐ Thin ☐ Cray	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
etland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3) (A Surface Soil Cracks Inundation Visible o	one indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) on Aerial Ima	verine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	)		│ Wat │ Sed │ Driff │ Drai │ Dry- │ Thin │ Cray │ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cllow Aquitard (D3)
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3) (N Surface Soil Cracks Inundation Visible of	one indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) on Aerial Ima	verine) e)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Inc	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	)		│ Wat │ Sed │ Driff │ Drai │ Dry- │ Thin │ Cray │ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) (N1) Sediment Deposits Drift Deposits (B3) (A1) Surface Soil Cracks Inundation Visible of Water-Stained Leaveld Observations:	vone indicate A2) Nonriverine (B2) (Nonriverine (Nonriverine (B6) on Aerial Ima	verine) a) gery (B7)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent Irc ☐ Other (Exp	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	)		│ Wat │ Sed │ Driff │ Drai │ Dry- │ Thin │ Cray │ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cllow Aquitard (D3)
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3) (S Surface Soil Cracks Inundation Visible of Water-Stained Leaved (d Observations:	vone indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (s (B6) on Aerial Ima ves (B9)	verine)	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	)		│ Wat │ Sed │ Driff │ Drai │ Dry- │ Thin │ Cray │ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cllow Aquitard (D3)
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3) (Surface Soil Cracks Inundation Visible of Water-Stained Leaveld Observations: face Water Present?	one indicate A2)  Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) on Aerial Ima ves (B9)  Yes Yes	verine)  gery (B7)  No 🖾	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches):	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	)		│ Wat │ Sed │ Driff │ Drai │ Dry- │ Thin │ Cray │ Satu	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cllow Aquitard (D3)
etland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits Drift Deposits (B3) (Surface Soil Cracks Inundation Visible of Water-Stained Leaveld Observations: face Water Present? uration Present?	vone indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (S (B6) on Aerial Ima ves (B9)  Yes Yes Yes Yes	verine)  gery (B7)  No 🖾	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp	est (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along I ed Iron (C4 on in Plow	) ed Soils (	C6)	☐ Wat	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cllow Aquitard (D3)
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) (N) Sediment Deposits Drift Deposits (B3) (Surface Soil Cracks Inundation Visible of Water-Stained Leaved Observations: face Water Present? Table Present? Uration Present?	vone indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) In Aerial Ima Ives (B9)  Yes Yes Yes	verine)  gery (B7)  No   ☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduction	dor (C1) tres along I ed Iron (C4 on in Plow marks)	) ed Soils (	C6)	☐ Wat ☐ Sed ☐ Driff ☐ Dry- ☐ Thin ☐ Cray ☐ Satu ☐ Sha ☐ FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Ilow Aquitard (D3) C-Neutral Test (D5)	
Drift Deposits (B3) ( Surface Soil Cracks	vone indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) In Aerial Ima Ives (B9)  Yes Yes Yes	verine)  gery (B7)  No   ☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduction	dor (C1) tres along I ed Iron (C4 on in Plow marks)	) ed Soils (	C6)	☐ Wat ☐ Sed ☐ Driff ☐ Dry- ☐ Thin ☐ Cray ☐ Satu ☐ Sha ☐ FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Ilow Aquitard (D3) C-Neutral Test (D5)	
stland Hydrology In mary Indicators (any Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) (N) Sediment Deposits Drift Deposits (B3) (Surface Soil Cracks Inundation Visible of Water-Stained Leaver (B) Water Present (C) Table Present? Studes capillary fringer water (C)	vone indicate A2) Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) In Aerial Ima Ives (B9)  Yes Yes Yes	verine)  gery (B7)  No   ☐ Salt Crus ☐ Biotic Cru ☐ Aquatic In ☐ Hydrogen ☐ Oxidized I ☐ Presence ☐ Recent In ☐ Other (Exp  Depth (inches): Depth (inches):	st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduction	dor (C1) tres along I ed Iron (C4 on in Plow marks)	) ed Soils (	C6)	☐ Wat ☐ Sed ☐ Driff ☐ Dry- ☐ Thin ☐ Cray ☐ Satu ☐ Sha ☐ FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C Ilow Aquitard (D3) C-Neutral Test (D5)	

Project/Site: Hermiston LWI City/Cour	nty: Hermiston Sam	npling Date: 7/31	/12		
Applicant/Owner: State: OR	Sampling Point: 59				
	ownship, Range: T	4N. R28E. B000			
Landform (hillslope, terrace, etc.): Flood				None Siono /9/ \\0 29/	
Subregion (LRR):D Lat: 45.8465	Long: -119,3181		, convex, none,	Notice Stope (%),0-3%	
Soil Map Unit Name: Gravel Pits NWI cl	<del>-</del>	Datum:			
				•	
Are climatic / hydrologic conditions on th					
Are Vegetation ☐, Soil ☐, or Hydrology			re "Normal Circu	mstances" present? Yes ⊠ No □	
Are Vegetation □, Soil □, or Hydrology	naturally proble	matic? (i	f needed, explair	n any answers in Remarks.)	
SUMMARY OF FINDINGS – At	tach site map s	showing san	npling point	locations, transects, important feature	es, etc.
Hydrophytic Vegetation Present?	Yes 🛛 No 🗌		is the Sample	d Aron	
Hydric Soil Present?	Yes 🗌 No 🔯		within a Wetla		
Wetland Hydrology Present?	Yes ☐ No 🛛		within a wena	ınd? Yes □ No ⊠	
Remarks:Compacted Dirt Road					
VEGETATION	***************************************				
Tree Stratum (Plot size: 30)		Absolute Dom Cover Species	ninant Indicator	Dominance Test worksheet:	
1.	***************************************			Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	
2.				, ,	
3.				Total Number of Dominant Species Across All Strata: 1 (B)	
4.					
		L		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)	
D. II. ID. 1 D. 1	Total Cover:				
Sapling/Shrub Stratum (Plot size: 5')_				Prevalence Index worksheet:	
1.					
2.				OBL species x1 =	
3.				FACW species x 2 = FAC species x 3 =	
4.				FACU species x 4 =	
5.				UPL species x 5 =	
				Column Totals: (A)	
Herb Stratum (Plot size: 5')	Total Cover:			(B)	
1.Bromus tectorum		30 x	FAC	Prevalence index = B/A =	
2.				Hydrophytic Vegetation Indicators:	
3.				Dominance Test is >50%	
4.				Prevalence Index is =3,01	
5.				Morphological Adaptations <sup>1</sup> (Provide supplementations)	porting
6.				data in Remarks or on a separate sheet)	
7.				Problematic Hydrophytic Vegetation¹ (Ex	(plain)
8.				The discharge of the date and and another than	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology r be present.	must
March March Charles (Dlate) at 50	Total Cover:	<u>30</u>			
Woody Vine Stratum (Plot size: 5')				Hydrophytic	
1. 2.			•	Vegetation Present? Yes ⊠ No □	
<u> </u>	Total Cover:			Present? Yes No 🗀	
				Remarks:	
% Bare Ground in Herb Stratum7	0 % Cove	r of Biotic Crust			

Profile Descrip Depth (inches)	ption: (Describe to							Sampling Point: 57
		the depth r	needed to docu	ment the	indicator	or confir	m the ab	osence of indicators.)
(inches)	Matrix			x Feature	s			
	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	Loc²	<u>Tex</u>	ture Remarks
0-18	2.5Y3/2 1	100					S	
							·····	
				2, ,,	D. D		ma n	
	centration, D=Deplet dicators: (Applicab					re Lining,		ot Channel, M=Matrix.  icators for Problematic Hydric Soils <sup>3</sup> :
-		ie to an EK			ieu.)			1 cm Muck (A9) (LRR C)
☐ Histosol (A ☐ Histic Epip	•		☐ Sandy Redo☐ Stripped Ma					2 cm Muck (A10) (LRR B)
Black Histi			☐ Loamy Muc		il (F1)			Reduced Vertic (F18)
	Sulfide (A4)		Loamy Gley	-				Red Parent Material (TF2)
	ayers (A5) (LRR C)		☐ Depleted M		` '			Other (Explain in Remarks)
☐ 1 cm Muck	(A9) ( <b>LRR D</b> )		☐ Redox Dark	Surface	(F6)			
•	elow Dark Surface (A	<del>1</del> 11)	Depleted Da					
	Surface (A12)		Redox Depr		F8)		3, ,	
	ky Mineral (S1) /ed Matrix (S4)		☐ Vernal Pools	s (F9)				dicators of hydrophytic vegetation and
	yer (if present):						· · · · · · · · · · · · · · · · · · ·	wetland hydrology must be present.
Type:	yor (ii probolity.							
Depth (inche	e),						Hyde	ric Soil Present? Yes □ No ⊠
emarks:							riyui	IIC SOIL Flesent: Tes
	rond							
Compacted dirt	. road.							
(DDO: OC)							·····	
DROLOGY				,			•	
-	ology Indicators:							Secondary Indicators (2 or more required)
	ors (any one indicato	r is sufficien						Water Marks (B1) (Riverine)
] Surface Wat			☐ Salt Crust					
	lable (A2)		☐ Biotic Crus					Sediment Deposits (B2) (Riverine)
ű	• • •							☐ Drift Deposits (B3) (Riverine)
] Saturation (A	•			ertebrates				☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10)
] Saturation (A ] Water Marks	(B1) (Nonriverine)		☐ Hydrogen	Sulfide O	dor (C1)			<ul><li>□ Drift Deposits (B3) (Riverine)</li><li>□ Drainage Patterns (B10)</li><li>□ Dry-Season Water Table (C2)</li></ul>
] Saturation (A ] Water Marks ] Sediment De	s (B1) (Nonriverine) eposits (B2) (Nonriv	erine)	☐ Hydrogen	Sulfide Od hizosphe	dor (C1) res along	•	ots (C3)	<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> </ul>
Saturation (A Water Marks Sediment De Drift Deposit	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine	erine)	☐ Hydrogen ☐ Oxidized R☐ Presence d	Sulfide Od hizosphe of Reduce	dor (C1) res along d Iron (C4	ł)		<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> </ul>
Saturation (A  Water Marks Sediment De Drift Deposit Surface Soil	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6)	rerine) )	☐ Hydrogen ☐ Oxidized R☐ Presence C☐ Recent Iron	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ł)		<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9)</li> </ul>
Saturation (A) Water Marks Sediment De Drift Deposit Surface Soil	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) /isible on Aerial Imag	rerine) )	☐ Hydrogen ☐ Oxidized R☐ Presence d	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ł)		<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9</li> <li>□ Shallow Aquitard (D3)</li> </ul>
Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) /isible on Aerial Imag ed Leaves (B9)	rerine) )	☐ Hydrogen ☐ Oxidized R☐ Presence C☐ Recent Iron	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ł)		<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9)</li> </ul>
Saturation (A  Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) /isible on Aerial Imag ed Leaves (B9) lons:	verine) )) gery (B7)	☐ Hydrogen : ☐ Oxidized R ☐ Presence c ☐ Recent Iron ☐ Other (Expl	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ł)		<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9</li> <li>□ Shallow Aquitard (D3)</li> </ul>
Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine eld Observati	s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //sible on Aerial Imaged Leaves (B9) ions: Present? Yes	rerine)  i)  gery (B7)  No 🔯 [	Hydrogen : Oxidized R Presence c Recent Iros Other (Expl	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ł)		<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9</li> <li>□ Shallow Aquitard (D3)</li> </ul>
Saturation (A) Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Feld Observation Water Pale Pre	s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) /isible on Aerial Imaged Leaves (B9) ions: Present? Yes esent? Yes	rerine) i) gery (B7) No 🔯 [	Hydrogen : Oxidized R Presence of Recent Iron Other (Expl	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ed Solls	(C6)	<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9</li> <li>□ Shallow Aquitard (D3)</li> <li>□ FAC-Neutral Test (D5)</li> </ul>
Saturation (A) Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine ield Observati urface Water P Vater Table Pre aturation Prese	s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imaged Leaves (B9) fions: Present? Yes esent? Yes ent? Yes	rerine) i) gery (B7) No 🔯 [	Hydrogen : Oxidized R Presence c Recent Iros Other (Expl	Sulfide Oo hizosphe of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Plow	ed Solls	(C6)	<ul> <li>□ Drift Deposits (B3) (Riverine)</li> <li>□ Drainage Patterns (B10)</li> <li>□ Dry-Season Water Table (C2)</li> <li>□ Thin Muck Surface (C7)</li> <li>□ Crayfish Burrows (C8)</li> <li>□ Saturation Visible on Aerial Imagery (C9</li> <li>□ Shallow Aquitard (D3)</li> </ul>
Saturation (A) Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Water Pater Table Pre Saturation Presencludes capillar	s (B1) (Nonriverine) eposits (B2) (Nonriverine) ts (B3) (Nonriverine) I Cracks (B6) //isible on Aerial Imaged Leaves (B9) fions: Present? Yes esent? Yes ent? Yes	rerine)  )  gery (B7)  No 🔯 [  No 🔯 [  No 🔯 [	Hydrogen : Oxidized R Presence of Recent Iron Other (Expl	Sulfide Od thizosphe of Reduce n Reduction ain in Rer	dor (C1) res along id Iron (C4 on in Plow narks)	red Solls (	(C6)	☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☐ No ☒
Sediment De Drift Deposit Drift Deposit Surface Soil Inundation V Water-Staine ield Observati urface Water P Vater Table Presenciudes capillar	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) //sible on Aerial Image ed Leaves (B9) fons: Present? Yes esent? Yes ent? Yes ent? Yes enty fringe)	rerine)  )  gery (B7)  No 🔯 [  No 🔯 [  No 🔯 [	Hydrogen : Oxidized R Presence of Recent Iron Other (Expl	Sulfide Od thizosphe of Reduce n Reduction ain in Rer	dor (C1) res along id Iron (C4 on in Plow narks)	red Solls (	(C6)	☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☐ No ☒
Saturation (A) Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Water Pater Table Pre Saturation Presencludes capillar	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) //sible on Aerial Image ed Leaves (B9) fons: Present? Yes esent? Yes ent? Yes ent? Yes enty fringe)	rerine)  )  gery (B7)  No 🔯 [  No 🔯 [  No 🔯 [	Hydrogen : Oxidized R Presence of Recent Iron Other (Expl	Sulfide Od thizosphe of Reduce n Reduction ain in Rer	dor (C1) res along id Iron (C4 on in Plow narks)	red Solls (	(C6)	☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☐ No ☒
Saturation (A  Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine eld Observati urface Water P Vater Table Pre aturation Presencludes capillar escribe Record	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) //sible on Aerial Image ed Leaves (B9) fons: Present? Yes esent? Yes ent? Yes ent? Yes enty fringe)	rerine)  )  gery (B7)  No 🔯 [  No 🔯 [  No 🔯 [	Hydrogen : Oxidized R Presence of Recent Iron Other (Expl	Sulfide Od thizosphe of Reduce n Reduction ain in Rer	dor (C1) res along id Iron (C4 on in Plow narks)	red Solls (	(C6)	☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☐ No ☒
Saturation (A  Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine eld Observati urface Water P Vater Table Pre aturation Presencludes capillar escribe Record	s (B1) (Nonriverine) eposits (B2) (Nonriv ts (B3) (Nonriverine I Cracks (B6) //sible on Aerial Image ed Leaves (B9) fons: Present? Yes esent? Yes ent? Yes ent? Yes enty fringe)	rerine)  )  gery (B7)  No 🔯 [  No 🔯 [  No 🔯 [	Hydrogen : Oxidized R Presence of Recent Iron Other (Expl	Sulfide Od thizosphe of Reduce n Reduction ain in Rer	dor (C1) res along id Iron (C4 on in Plow narks)	red Solls (	(C6)	☐ Drift Deposits (B3) (Riverine) ☐ Drainage Patterns (B10) ☐ Dry-Season Water Table (C2) ☐ Thin Muck Surface (C7) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)  drology Present? Yes ☐ No ☒

# APPENDIX E: OFWAM DATA RESULTS

Transition of the state of the		

(Revised Edition, April 1996)

Wetland Mapping Code: A	Date(es) of Fieldwork:	7/10/2012
Hermis	ston Local Wetland Inventory	
Wetland	l Assessment Summary Sheet	

Size (acres): 2.61 Investigator:

vestigator: MRS

Wetland Types: PEM
Data Sheet #: Off-site

Wetland Location: North of E. Elm Ave., west of NE 4th St.

Wetland Viewing: Off-site determination. Wetland could be viewed from TL # 200.

# Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		to Impact
Q	Α	Q	A	Q	A	Q	A	Q	A
1	С	1	N/A	1	С	1	A	1	A
2	С	2	N/A	2	A	2	A	2	A
3	C	3	N/A	3	В	3	В	3	N/A
4	N/A	4	N/A	4	В	4	A	4	С
5	В	5	N/A	5	С	5	C	5	A
6	В	6	N/A	6	N/A	6	N/A	6	В
7	N/A					7	N/A		***************************************
8	Α					·	- A	•	
9B	Α								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	N/A Fish habitat is not present.
Water Quality	Wetland's water-quality is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Potentially sensitive to future impacts.

	ncement ential	Education		Recr	Recreation		ic Quality
Q	A	Q	A	Q	A	Q	A
1	A	l	С	1	С	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	A
5B	A	5	С	5	В	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	Wetland not appropriate/does not provide recreational opportunity.
Aesthetic Quality	No viewing area. N/A for Aesthetic Quality.

Wildlife Ha	ibitat	Assessment Result	Wetland provides habitat for some wildlife species
Rational:	open space		ominated by emergent vegetation. Adjacent land is mostly ter Quality limited streams. Wetlands buffer is greater
Fish Habi	tat	Assessment Result	N/A Fish habitat is not present.
Rational:			
Water Qua	lity	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	space. Evid	_	er. Moderate vegetation cover. Adjacent land use is open ding during portion of open season. No surface water ms.
Hydrologic C	ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:		dow. No downstream, d	Wetland has no outlet. Dominated by emergent vegetation own-slope or upslope of wetland. Wetland is a
Sensitivity to	Impact	Assessment Result	Potentially sensitive to future impacts.
Rational:			d, human modifications. Water is taken out of Hermiston use is open space zoned for developed uses.
Enhancement P	otential	Assessment Result	Wetland has high potential for enhancement
Rational:		ffer is greater than 40%	degraded. Primary source of water is groundwater.  b. Wetland is less than 5 acres. Potentially sensitive to
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No ac	cess point to wetland exists. Private property.
Recreatio	n	Assessment Result	Wetland not appropriate/does not provide recreational opportunity.
Rational:	No access p	oint to site. Nor boat la	unch. No viewing areas. No hunting.
Aesthetic Qu	ality	Assessment Result	No viewing area. N/A for Aesthetic Quality.
Rational:	No viewing	area. N/A for Aesthetic	Quality.

(Revised Edition, April 1996)

# Wetland Assessment Summary Sheet Hermiston Local Wetland Inventory

Wetland Mapping Code: B Date(es) of Fieldwork: 7/10/2012

Size (acres): 6.11 Investigator: MRS

Wetland Types: PEM
Data Sheet #: Off-site

Wetland Location: South of E. Theater Lane, and west of Vista Park Mobile Home Estates.

Wetland Viewing: Off-site determination. There was no view of this wetland.

#### Function and Condition Assessment Answers:

Wildlif	e Habitat	Fish I	labitat	Water	Quality	Hydrolog	ic Control	Sensitivit	y to Impact
Q	Α	Q	A	Q	A	Q	A	Q	A
1	С	1	N/A	1	C	1	A	1	A
2	С	2	N/A	2	A	2	В	2	A
3	С	3	N/A	3	В	3	A	3	N/A
4	N/A	4	N/A	4	A	4	A	4	C
5	В	5	N/A	5	С	5	С	5	A
6	В	6	N/A	6	N/A	6	N/A	6	В
7	N/A					7	N/A	******	***************************************
8	A							•	
9B	А								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.				
Fish	N/A. Fish habitat is not present.				
Water Quality	Wetland's water-quality is impacted or degraded.				
Hydrologic Control	Wetlands hydrologic control is impacted or degraded.				
Sensitivity to Impact	Potentially sensitive to future impacts.				

\$23 SESTEMBER   \$25 SESTEMBER   \$25 SESTEMBER   \$25 SESTEMBER   \$25 SESTEMBER   \$25 SESTEMBER   \$25 SESTEMBER	ncement ential	Edu	cation	Reci	Recreation		ic Quality
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	C	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	C	3	N/A
4	A	4	С	4	В	4	A
5b	A	5	C	5	В	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	Wetland not appropriate/does not provide recreational opportunity.
Aesthetic Quality	No viewing area. N/A for Aesthetic Quality.

Wildlife Ha	abitat	Assessment Result	Wetland provides habitat for some wildlife species
Rational:	open space		ominated by emergent vegetation. Adjacent land is mostly ter Quality limited streams. Wetlands buffer is greater
Fish Hab	itat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qua	ility	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	space. Evid		ter. Moderate vegetation cover. Adjacent land use is open ading during portion of open season. No surface water ms.
Hydrologic C	ontrol :	Assessment Result	Wetlands hydrologic control is impacted or degraded.
Rational:	or wet mea		Wetland has no outlet. Dominated by emergent vegetation lown-slope or upslope of wetland. Wetland is a 5 acres in size.
Sensitivity to	Impact	Assessment Result	Potentially sensitive to future impacts.
Rational:	ditch. Dom		d, human modifications. Water is taken out of Hermiston use is open space zoned for developed uses. Emergent
Enhancement F	otential	Assessment Result	Wetland has high potential for enhancement
Rational:		ffer is greater than 40%	degraded. Primary source of water is groundwater.  b. Wetland is less than 5 acres. Potentially sensitive to
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No ac	cess point to wetland exists. Private property.
Recreation	n	Assessment Result	Wetland not appropriate/does not provide recreational opportunity.
Rational:	No access p	oint to site. Nor boat la	unch. No viewing areas. No hunting.
Aesthetic Qu	ality	Assessment Result	No viewing area. N/A for Aesthetic Quality.
Rational:	No viewing	area. N/A for Aesthetic	e Quality.

(Revised Edition, April 1996)

Wetland Mapping Code:	C Date(es) of Fieldwork:	7/10/2012
	Hermiston Local Wetland Inventory	
	<b>Wetland Assessment Summary Sheet</b>	

Size (acres):

12.77

Investigator:

MRS

Wetland Types:

PEM

Data Sheet #:

Off-site

Wetland Location: South of E. Elm Avenue, between NE 4th St and NE 10th St. Wetland Viewing: Off-site determination. Wetland visible from E Elm Avenue.

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water	Water Quality		Hydrologic Control		y to Impact
Q	A	Q	A	Q	A	Q	Α	Q	A
1	A	1	N/A	1	С	1	A	1	A
2	C	2	N/A	2	С	2	С	2	A
3	C	3	N/A	3	A	3	A	3	N/A
4	N/A	4	N/A	4	A	4	A	4	С
5	В	5	N/A	5	С	5	С	5	A
6	В	6	N/A	6	N/A	6	N/A	6	В
7	N/A				, ,,	7	N/A		
8	A							4	
0R	Δ								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	N/A. Fish habitat is not present.
Water Quality	Wetland's water-quality is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Potentially sensitive to future impacts.

	ncement ential	Education		Recr	eation	Aesthetic Quali	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	C	1	В
2	В	2	В	2	С	2	A
3	N/A	3	В	3	С	3	A
4	A	4	В	4	В	4	A
5B	A	5	C	5	В	5	A
6	В	6	В	6	В	6	В

Enhancement Potential	Wetland has high potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	Wetland not appropriate/does not provide recreational opportunity.
Aesthetic Quality	The wetland is considered to be pleasing.

Wildlife Ha	bitat	Assessment Result	Wetland provides habitat for some wildlife species
Rational:	open space		ominated by emergent vegetation. Adjacent land is mostly ter Quality limited streams. Wetlands buffer is greater
Fish Habi	tat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qua	lity	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	land use is	· · · · · · · · · · · · · · · · · · ·	ter/leakage from canal. High vegetation cover. Adjacent te of flooding or ponding during portion of open season. her wetlands/streams.
Hydrologic C	ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:			Wetland has no outlet. Dominated by emergent vegetation lown-slope or upslope of wetland. Wetland is a
Sensitivity to	Impact	Assessment Result	Potentially sensitive to future impacts.
Rational:			d, human modifications. Water is taken out of Hermiston use is open space zoned for developed uses.
Enhancement P	otential	Assessment Result	Wetland has high potential for enhancement
Rational:		-	degraded. Wetland buffer is greater than 40%. Wetland is tentially sensitive to impacts.
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
		o site is allowed. No ac c road. Public access c	cess point to wetland exists. Visibility was from a high an't be created easily.
Recreatio	n	Assessment Result	Wetland not appropriate/does not provide recreational opportunity.
Rational:	No access p	oint to site. Nor boat la	unch. No viewing areas. No hunting.
Aesthetic Qu	ality	Assessment Result	Wetland is considered pleasing,
			public road. Predominantly PEM wetland. Open space Continuous traffic is audible.

(Revised Edition, April 1996)

Wetland Mapping Code: D	Date(es) of Fieldwork:	7/10/2012
Herm	iston Local Wetland Inventory	
Wetlan	d Assessment Summary Sheet	

Size (acres):

7.77

Investigator:

MRS

Wetland Types:

PEM, PFO

Data Sheet #:

Off-site

Wetland Location: South of E. Elm Avenue, between NE 4th St and NE 10th St.

Wetland Viewing: Off-site determination. Wetland just south of Wetland C. Barely visible via E. Elm.

# Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivit	y to Impact
Q	A	Q	A	Q	A	Q	A	Q	A
1	A	1	N/A	1	С	1	A	1	A
2	C	2	N/A	2	С	2	C	2	A
3	С	3	N/A	3	A	3	A	3	N/A
4	N/A	4	N/A	4	A	4	A	4	C
5	В	5	N/A	5	С	5	С	5	A
6	В	6	N/A	6	N/A	6	N/A	6	В
7	N/A					7	N/A		
8	A					h		ı	
9B	A								

### Results:

Wildlife	The wetland provides habitat for some wildlife species.
Fish	The wetland's fish habitat is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control function is impacted or degraded.
Sensitivity to Impact	Wetland is potentially sensitive to impact.

	ncement ential	Educ	Education		eation	Aesthetic Quali	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	В
2	В	2	В	2	С	2	A
3	N/A	3	В	3	С	3	A
4	A	4	В	4	В	4	A
5B	Α	5	С	5	В	5	A
6	В	6	В	6	В	6	В

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland is not appropriate for education.
Recreation	Wetland is not appropriate/provide recreational opportunities.
Aesthetic Quality	Wetland is considered pleasing.

Wildlife Ha	abitat	Assessment Result	Wetland provides habitat for some wildlife species
Rational:	open space		ominated by emergent vegetation. Adjacent land is mostly iter Quality limited streams. Wetlands buffer is greater
Fish Hab	itat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qua	ılity	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	of canal wa	s piped. High vegetation ponding during portion	ter/leakage from canal. Area became drier after a portion on cover. Adjacent land use is open space. No evidence of a of open season. No surface water connection to other
Hydrologic C	ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:	Wetland wi or wet mea depression.	dow. No downstream, d	Wetland has no outlet. Dominated by emergent vegetation lown-slope or upslope of wetland. Wetland is a
Sensitivity to	Impact	Assessment Result	Potentially sensitive to future impacts.
Rational:			d, human modifications. Water is taken out of Hermiston use is open space zoned for developed uses.
Enhancement F	otential	Assessment Result	Wetland has high enhancement potential.
Rational:			degraded. Wetland buffer is greater than 40%. Wetland is tentially sensitive to impacts.
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:		o site is allowed. No ac c road. Public access ca	cess point to wetland exists. Visibility was from a high an't be created easily.
Recreatio	n	Assessment Result	Wetland not appropriate/does not provide recreational opportunity.
Rational:	No access p	oint to site. Nor boat la	unch. No viewing areas. No hunting.
Aesthetic Qu	ality	Assessment Result	Wetland is considered pleasing.
			public road. Predominantly PEM wetland. Open space continuous traffic is audible.

(Revised Edition, April 1996)

#### **Wetland Assessment Summary Sheet** Hermiston Local Wetland Inventory Wetland Mapping Code: E1 Date(es) of Fieldwork: 7/10/2012

Size (acres):

12.8

Investigator:

MRS

Wetland Types:

PFO, PEM

Data Sheet #:

7, 8, 27-32

Wetland Location: North of McConnel Ln and NW 15th St. corner. West of 11th St. East of Umatilla River.

Wetland Viewing: Mostly onsite.

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat Fish Habitat		Habitat Fish Habitat Water Quality		Quality	Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
1	A	1	A	1	A	1	A	1	A
2	Α	2	В	2	С	2	C	2	A
3	C	3	С	3	В	3	A	3	A
4	N/A	4	С	4	A	4	C	4	С
5	Α	5	A	5	C	5	A	5	С
6	A	6	A	6	A	6	C	6	A
7	С					7	A		
8	A				'			1	
9B	A								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is impacted or degraded.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is intact.
Sensitivity to Impact	Wetland is sensitive to future impacts.

	Enhancement Potential		Education		eation	Aesthetic Quality		
Q	Α	Q	A	Q	A	Q	A	
1	A	1	С	1	С	1	В	
2	A	2	A	2	С	2	С	
3	A	3	В	3	С	3	N/A	
4	A	4	С	4	В	4	A	
5b	A	5	С	5	В	5	В	
6	С	6	С	6	В	6	A	

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland site is not appropriate for educational use.
Recreation	Wetland not appropriate/does not provide recreational opportunities.
Aesthetic Quality	Wetland is moderately pleasing.

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	Surface wa	ter connections via dite	l by woody vegetation. Adjacent land is open space. hes, connected to other wetlands via ditches within 3 mile than 40%. Upstream reach listed water quality limited.
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:	Water qual		iver are modified. Less than 10% in stream structures. surrounding wetland. Sensitive species are in Umatilla
Water Qua	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	ponding du	ring portion of open sea erate degree of vegetati	urface flow, from ditches. No evidence of flooding or ason. Land use within 500 ft of wetland edge is open ion cover. Adjacent to Umatilla River which is water
Hydrologic (	Control	Assessment Result	Wetland's hydrologic control is intact.
Rational:	determine e		lood plain. Dominated by woody vegetation. Unable to utlet has unrestricted flow. Downstream is open space.
Sensitivity to	Impact	Assessment Result	Wetland is sensitive to future impacts.
Rational:		•	ess than 1 mile above wetland. Water being taken out ljacent to wetland. Open space existing and zoned. Woody
Enhancement I	Potential	Assessment Result	Wetland has high enhancement potential.
Rational:		=	degraded. Wetland buffer is greater than 40%. Wetland is ve to impacts. Wetland has surface flow via assumed
Educatio	n	Assessment Result	Wetland site not appropriate for educational use.
Rational:		llowed. Wetland provide mited mobility individual	les habitat for some wildlife species. No public access. No pals.
Recreatio	on	Assessment Result	Wetland is not appropriate/does not provide recreational opportunities.
Rational:		oint exists, or access po	oint is hazardous. No trails. Provides some habitat for
Aesthetic Qu	ıality	Assessment Result	Wetland is moderately pleasing.
Rational:			5% visible from viewing location. Open space to nearby sewage treatment plant. Some traffic noise.

(Revised Edition, April 1996)

Wetlar	nd Assessment Summary Sheet	
Hern	niston Local Wetland Inventory	
Wetland Mapping Code: E2	Date(es) of Fieldwork:	7/10/2012

Size (acres): 2.12 Investigator: MRS

Wetland Types: PEM
Data Sheet #: Off-site

Wetland Location: East end of Hermiston Drain, where it enters Hermiston's urban growth boundary. West of

Ott Road.

Wetland Viewing: Off-site determination. Viewed from Ott Road.

#### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat Fish Habitat		Water	Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	Α	Q	A	Q	A	Q	A
1	A	1	N/A	1	A	1	В	1	A
2	С	2	N/A	2	С	2	С	2	A
3	С	3	N/A	3	A	3	В	3	A
4	С	4	N/A	4	В	4	С	4	С
5	A	5	N/A	5	C	5	С	5	A
6	Α	6	N/A	6	A	6	С	6	В
7	C		****			7	В	******	
8	A								
9B	Α								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control function is lost or not present.
Sensitivity to Impact	Wetland is sensitive to future impacts.

Enhan Pote	Enhancement Potential		ation	Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	В
2	A	2	В	2	С	2	В
3	A	3	В	3	С	3	A
4	В	4	В	4	В	4	A
5B	A	5	C	5	В	5	A
6	С	6	В	6	В	6	A

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland site is not appropriate for educational use.
Recreation	Wetland is not appropriate/does not provide recreational opportunities.
Aesthetic Quality	Wetland is considered moderately pleasing.

Wildlife H	abitat	Assessment Result	Wetland provides diverse habitat.
Rational:	open space	. Wetland connected by	ominated by emergent vegetation. Adjacent land is mostly surface water to Hermiston Drain. Less than 0.5 acres ater than 40%. No upstream reaches.
Fish Hab	oitat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qu	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	land use is		ow from Hermiston Drain. High vegetation cover. Adjacent se of flooding or ponding during portion of open season.
Hydrologic (	Control	Assessment Result	Wetland hydrologic control function is lost or not present.
Rational:			Wetland has no outlet. Dominated by emergent vegetation own-slope or upslope of wetland. Wetland is a
Sensitivity to	Impact	Assessment Result	Wetland is sensitive to future impacts.
Rational:	limited upst		Water is taken out of Hermiston ditch. Water quality anding land use is open space. Zoned for developed uses. w.
Enhancement l	Potential	Assessment Result	Wetland has high enhancement potential.
Rational:		nctions are impacted or y sensitive to impacts.	degraded. Wetland buffer is greater than 40%. Wetland
Educatio	on	Assessment Result	Wetland site is not appropriate for educational use.
Rational:		o site is allowed. No ac c road. Public access ca	cess point to wetland exists. Visibility was from a high an't be created easily.
Recreation	on	Assessment Result	Wetland not appropriate/does not provide recreational opportunity.
Rational:	No access p	oint to site. Nor boat la	unch. No viewing areas. No hunting.
Aesthetic Q	uality	Assessment Result	Wetland is considered pleasing.
Rational:			public road. Predominantly PEM wetland. Open space continuous traffic is audible.

(Revised Edition, April 1996)

Wetland Mapping C	Code: F1	Date(es) of Fieldwork:	7/10/2012
	Herm	iston Local Wetland Inventory	
	Wetlan	d Assessment Summary Sheet	

14.68

Size (acres):

Investigator:

**MRS** 

Wetland Types:

**PFO** 

Data Sheet #:

Off-site

Wetland Location: East of S. Townsand Rd where East Main St. T's into S. Townsand Rd.

Wetland Viewing: Off-site determination. Partially viewed from S. Townsand Rd.

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water	Water Quality		Hydrologic Control		y to Impact
Q	A	Q	A	Q	A	Q	A	Q	A
1	A	1	N/A	1	A	1	В	1	A
2	Α	2	N/A	2	С	2	С	2	A
3	С	3	N/A	3	A	3	A	3	A
4	N/A	4	N/A	4	A	4	С	4	В
5	В	5	N/A	5	В	5	A	5	A
6	В	6	N/A	6	A	6	A	6	A
7	С					7	В		
8	В					N		1	
9B	Α								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is sensitive to future impacts.

Enhancement Potential		i Education I		Recr	eation	Aesthetic Quality	
Q	Α	Q	A	Q	A	Q	A
1	A	1	С	1	A	1	В
2	A	2	A	2	С	2	C
3	С	3	В	3	С	3	A
4	A	4	В	4	В	4	A
5B	A	5	A	5	В	5	A
6	С	6	В	6	В	6	A

Enhancement Potential	Wetland has moderate potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	Wetland has the potential to provide recreational opportunities.
Aesthetic Quality	Wetland is considered moderately pleasing.

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	agriculture		ominated by woody vegetation. Adjacent land is mostly rrigated pasture, within a drainage system. Wetlands
Fish Hab	itat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qu	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	flooding or		urface flow from irrigated pastures. No evidence of n of open season. Water quality limited upstream. Land use griculture.
Hydrologic (	Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:		etation. Dominant land	sin. Wetland outflow into the ground. Dominated by use downstream of wetland is development. Surrounded
Sensitivity to	Impact	Assessment Result	Wetland is sensitive to impacts.
Rational:	limited ups		Water is taken out of Hermiston ditch. Water quality anding land use is open space. Zoned for developed uses.
Enhancement I	Potential	Assessment Result	Wetland has moderate potential for enhancement.
Rational:	greater than	5 acres. Wetland is po	degraded. Wetland buffer is greater than 40%. Wetland is tentially sensitive to impacts. Wetland has surface flow cted flow and cannot be restored.
Education	m	Assessment Result	Wetland site is not appropriate for educational use.
Rational:		o site is allowed. No ac ic road. Public access c	cess point to wetland exists. Visibility was from a high an't be created easily.
Recreation	on	Assessment Result	Wetland has potential to provide recreational opportunities.
Rational:		ss point is a maintained viewing areas. No hunt	road, however wetland is on private property. No boat
Aesthetic Qu	uality	Assessment Result	Wetland is considered pleasing.
Rational:			I public road. Predominantly PFO wetland. Open space Continuous traffic is audible.

(Revised Edition, April 1996)

Wetland Manning Code: F2	Date(es) of Fieldwork	
Hermiston	Local Wetland Inventory	
Wetland As	sessment Summary Sheet	

Size (acres):

32.37

7/10/2012

Investigator:

MRS

Wetland Types:

PFO, PEM

Data Sheet #:

45, 46, 9-12, 57, 58

Wetland Location: North of CO 1238 Rd, west of NW 13th St., east of Umatilla River.

Wetland Viewing: Mostly onsite.

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water	Quality	Hydrolog	ic Control	Sensitivit	y to Impact
Q	A	Q	Α	Q	Α	Q	Α	Q	A
1	Α	1	A	1	A	1	A	1	A
2	A	2	В	2	С	2	С	2	A
3	С	3	С	3	В	3	A	3	A
4	C	4	С	4	A	4	С	4	С
5	Α	5	A	5	С	5	A	5	C
6	Α	6	A	6	A	6	С	6	A
7	С					7	A		
8	A				ı	·····		1	
9B	A								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is intact.
Sensitivity to Impact	Wetland is sensitive to future impacts.

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	Α	Q	A	Q	A	Q	A
1	A	1	A	1	A	1	В
2	A	2	A	2	С	2	A
3	A	3	В	3	A	3	A
4	Α	4	A	4	В	4	A
5b	A	5	A	5	A	5	A
6	С	6	A	6	В	6	A

Enhancement Potential	Wetland has high enhancement potential.	
Education	Wetland has education uses.	
Recreation	Wetland provides recreational opportunities.	
Aesthetic Quality	Wetland is considered pleasing.	

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	than 0.5 acre	es open water. Surface e radius. Wetlands but	d by woody vegetation. Adjacent land is open space. Less water connections via ditches, unconnected wetlands ffer is greater than 40%. Upstream reach listed water
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:	Water qualit		iver are modified. Less than 10% in stream structures. surrounding wetland. Sensitive species are in Umatilla r.
Water Qua	ılity	Assessment Result	Wetland's water-quality is impacted or degraded,
Rational:	ponding dur	ing portion of open sea trate degree of vegetat	urface flow, from ditches. No evidence of flooding or ason. Land use within 500 ft of wetland edge is open ion cover. Adjacent to Umatilla River which is water
Hydrologic (	Control	Assessment Result	Wetland's hydrologic control is intact.
Rational:	determine ev		lood plain. Dominated by woody vegetation. Unable to utlet has unrestricted flow. Downstream is open space.
Sensitivity to	Impact	Assessment Result	Wetland is sensitive to future impacts.
Rational:			less than 1 mile above wetland. Water being taken out ljacent to wetland. Open space existing and zoned. Woody
Enhancement I	Potential	Assessment Result	Wetland has high enhancement potential.
Rational:			degraded. Wetland buffer is greater than 40%. Wetland is ve to impacts. Wetland has surface flow via assumed
Educatio	n	Assessment Result	Wetland has educational uses,
Rational:		d easily. Maintained a	s. Wetland provides habitat for some species. Public access within 250 ft of wetland. Viewing for individuals
Recreation	n	Assessment Result	Wetland provides recreational opportunities.
Rational:		•	aunching area. Developed/maintained trails. Wetland Fishing allowed on Umatilla River. No hunting.
Aesthetic Qu	ality	Assessment Result	Wetland is considered pleasing.
Rational:			ater than 50% wetland visible from viewing areas. No ural odors. Mostly naturally occurring sounds.

(Revised Edition, April 1996)

Wetlan	nd Assessment Summary Sheet	
Herm	niston Local Wetland Inventory	
Wetland Mapping Code: G	Date(es) of Fieldwork:	7/10/2012

Size (acres):

5.16

Investigator:

MRS

Wetland Types: Data Sheet #:

PEM

On-site

1, 2, 3, 4, 5, 6

Wetland Location: Avril Lane

Wetland Viewing: On-site determination.

#### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	Α	
1	С	1	N/A	1	С	1	В	1	A	
2	C	2	N/A	2	C	2	С	2	A	
3	С	3	N/A	3	A	3	A	3	N/A	
4	N/A	4	N/A	4	A	4	С	4	В	
5	В	5	N/A	5	В	5	С	5	A	
6	В	6	N/A	6	С	6	В	6	В	
7	С					7	В			
8	В							1		
9B	A									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	В
2	В	2	A	2	С	2	A
3	N/A	3	В	3	C	3	A
4	A	4	С	4	В	4	A
5B	A	5	С	5	В	5	A
6	В	6	В	6	В	6	A

Enhancement Potential	Wetland has moderate potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational opportunities.
Aesthetic Quality	Wetland is considered pleasing.

Wildlife Hal	oitat	Assessment Result	Wetland provides habitat for some wildlife species.
			by emergent vegetation or wet meadow. Adjacent land is No surface water connections. Wetlands buffer is greater
Fish Habit	at	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qual	ity	Assessment Result	Wetland's water-quality is impacted or degraded.
		or ponding during port	roundwater, most likely from A-line Canal. No evidence ion of open season. Land use within 500 ft of wetland
Hydrologic Co	ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
			sin. Wetland outflow into the ground. Dominated by w. Dominant land use downstream of wetland is
Sensitivity to In	npact	Assessment Result	Wetland is potentially sensitive to future impacts.
	-		Water is taken out of A-line Canal. Dominant surrounding eveloped uses. Emergent vegetation or wet meadow.
Enhancement Po	otential	Assessment Result	Wetland has moderate potential for enhancement.
8		-	degraded. Wetland buffer is greater than 40%. Wetland is tentially sensitive to impacts. Wetland has groundwater
Education		Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vie	ewing spot for limited mobility individuals.
Recreation		Assessment Result	Wetland not appropriate/does not provide recreational opportunity.
		oint. No boat launch. N fishing. No hunting. Pr	o trails or viewing areas. Provides some habitat for rivate property.
Aesthetic Qua	lity	Assessment Result	Wetland is considered pleasing.
Rational: N	No site acce	ss to public. Permission	n was received to gather data.

(Revised Edition, April 1996)

#### Wetland Assessment Summary Sheet **Hermiston Local Wetland Inventory** Wetland Mapping Code: Date(es) of Fieldwork: 7/10/2012

Size (acres):

3.54

Investigator:

MRS

Wetland Types:

**PFO** Data Sheet #: Off-site

Wetland Location: Adjacent to Maxwell Canal, west of Townsand Rd and south of Hurlburt Ave.

Wetland Viewing: Off-site

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water	Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A	
1	A	1	N/A	1	С	1	В	1	A	
2	A	2	N/A	2	C	2	С	2	A	
3	С	3	N/A	3	A	3	В	3	N/A	
4	N/A	4	N/A	4	В	4	С	4	С	
5	В	5	N/A	5	C	5	A	5	A	
6	В	6	N/A	6	N/A	6	A	6	A	
7	C			-		7	С			
8	A									
9B	A									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

	Enhancement Potential		Education		eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	A	1	В
2	В	2	A	2	С	2	С
3	N/A	3	В	3	С	3	A
4	В	4	В	4	В	4	A
5b	A	5	A	5	В	5	A
6	В	6	В	6	В	6	A

Enhancement Potential	Wetland has moderate potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational opportunities.
Aesthetic Quality	The wetland is considered to be moderately pleasing.

Wildlife Ha	ibitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:		stly open space. No ope	I by woody vegetation and emergent meadow. Adjacent n water. No surface water connections. Wetlands buffer is
Fish Habi	tat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qua	ility	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:		or ponding during port	roundwater, most likely from Maxwell Canal. No evidence ion of open season. Land use within 500 ft of wetland
Hydrologic C	ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:		egetation or wet meado	sin. Wetland outflow into the ground. Dominated by w. Dominant land use downstream of wetland is
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to future impacts.
Rational:	-		Water is taken out of Maxwell Canal. Dominant  . Zoned for developed uses. Emergent vegetation or wet
Enhancement P	otential	Assessment Result	Wetland has moderate potential for enhancement.
Rational:		_	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access t	o site is allowed. No vi	ewing spot for limited mobility individuals.
Recreatio	n	Assessment Result	The wetland is not appropriate/does not provide recreational opportunity.
Rational:		oint. No boat launch. No fishing. No hunting.	to trails or viewing areas. Provides some habitat for
Aesthetic Qu	ality	Assessment Result	The wetland is considered to be moderately pleasing.
			rom viewing point. Less than 25% of wetland can be unnatural odors or sounds.

(Revised Edition, April 1996)

#### **Wetland Assessment Summary Sheet** Hermiston Local Wetland Inventory Wetland Mapping Code: Date(es) of Fieldwork: K 7/10/2012

Size (acres):

1.44

Investigator:

MRS

Wetland Types:

PEM

Data Sheet #:

Off-site

Wetland Location: Between the airport and the A Line Canal. Wetland Viewing: Off-site, no access/viewing location.

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
1	С	1	N/A	1	C	1	A	1	A
2	C	2	N/A	2	С	2	C	2	A
3	C	3	N/A	3	С	3	В	3	N/A
4	N/A	4	N/A	4	В	4	A	4	В
5	В	5	N/A	5	В	5	С	5	A
6	В	6	N/A	6	N/A	6	N/A	6	В
7	N/A					7	В	***************************************	
8	В								
9B	Α								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.				
Fish	Wetland's fish habitat function is lost or not present.				
Water Quality	Wetland's water-quality function is impacted or degraded.				
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.				
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.				

	ncement ential	Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	A
5B	A	5	С	5	В	5	N/A
6	В	6	С	6	В	6	A

Enhancement Potential	Wetland has high potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational opportunities.
Aesthetic Quality	The wetland is considered to be moderately pleasing.

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	No open w		y emergent meadow. Adjacent land is mostly agriculture. connections, but other unconnected wetlands within 3 mile than 40%.
Fish Hab	itat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qu	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	of flooding	-	roundwater, most likely from US Feed Canal. No evidence ion of open season. Land use within 500 ft of wetland vegetation cover.
Hydrologic (	Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:	evidence of		Dominated by emergent vegetation or wet meadow. No am or down slope edge of wetland. Dominant land use in
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to future impacts.
Rational:			Water is taken out of the US Feed Canal. Dominant . Zoned for developed uses. Emergent vegetation or wet
Enhancement l	Potential	Assessment Result	Wetland has high potential for enhancement.
Rational:		_	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Education	on	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access t	o site is allowed. No vio	ewing spot for limited mobility individuals.
Recreation	on	Assessment Result	The wetland is not appropriate/does not provide recreational opportunity.
Rational:	_	oint. No boat launch. No fishing. No hunting.	to trails or viewing areas. Provides some habitat for
Aesthetic Q	uality	Assessment Result	The wetland is considered to be moderately pleasing.
Rational:	Site not visi	ble from access or view	ring area. Aerials show surrounding area to be open space.

(Revised Edition, April 1996)

#### Wetland Assessment Summary Sheet Hermiston Local Wetland Inventory Wetland Mapping Code: L Date(es) of Fieldwork: 7/10/2012

Size (acres):

0.96

Investigator:

MRS

Wetland Types:

PEM

Data Sheet #:

Off-site

Wetland Location: North of US Feed Canal and west of HWY 395

Wetland Viewing: Off-site, no access/viewing location.

## Function and Condition Assessment Answers:

Wildlif	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A	
1	С	1	N/A	1	С	1	A	1	A	
2	Α	2	N/A	2	С	2	С	2	A	
3	C	3	N/A	3	A	3	В	3	N/A	
4	N/A	4	N/A	4	В	4	A	4	В	
5	В	5	N/A	5	В	5	A	5	A	
6	В	6	N/A	6	N/A	6	N/A	6	A	
7	N/A					7	В			
8	В							1		
9B	A									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

	Enhancement Potential		Education		eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	A
5B	A	5	С	5	В	5	N/A
6	В	6	С	6	В	6	A

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational opportunities.
Aesthetic Quality	The wetland is considered to be moderately pleasing.

Wildlife Ha	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	No open wa		y woody vegetation. Adjacent land is mostly agriculture. connections, but other unconnected wetlands within 3 mile than 40%.
Fish Hab	itat	Assessment Result	N/A. Fish habitat is not present.
Rational:			
Water Qua	ility	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	of flooding	_	roundwater, most likely from US Feed Canal. No evidence ion of open season. Land use within 500 ft of wetland vegetation cover.
Hydrologic C	Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:		o downstream or down	Dominated by woody vegetation. No evidence of slope edge of wetland. Dominant land use in watershed
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to future impacts.
Rational:	=		Water is taken out of the US Feed Canal. Dominant . Zoned for developed uses. Dominant woody vegetation.
Enhancement F	otential	Assessment Result	Wetland has high enhancement potential.
Rational:			degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vi	ewing spot for limited mobility individuals.
Recreation	)I)	Assessment Result	The wetland is not appropriate/does not provide recreational opportunity.
Rational:	_	oint. No boat launch. N fishing. No hunting.	lo trails or viewing areas. Provides some habitat for
Aesthetic Qu	iality	Assessment Result	The wetland is considered to be moderately pleasing.
Rational:	Site not visi	ble from access or viev	ving area. Aerials show surrounding area to be open space.

(Revised Edition, April 1996)

# Wetland Assessment Summary Sheet Hermiston Local Wetland Inventory Wetland Mapping Code: O Date(es) of Fieldwork: 7/10/2012

Size (acres): 1.04 Investigator: MRS

Wetland Types: PFO
Data Sheet #: Off-site

Wetland Location: North of Maxwell Canal, east of where canal crosses the railroad.

Wetland Viewing: Off-site, no access/viewing location.

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	Α	Q	Α	Q	A
1	С	1	N/A	1	С	1	A	1	A
2	A	2	N/A	2	С	2	C	2	A
3	C	3	N/A	3	A	3	В	3	N/A
4	N/A	4	N/A	4	В	4	A	4	В
5	В	5	N/A	5	В	5	A	5	A
6	В	6	N/A	6	N/A	6	N/A	6	A
7	N/A					7	В		
8	В					1			
9B	А								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.				
Fish	Wetland's fish habitat function is lost or not present.				
Water Quality	Wetland's water-quality function is impacted or degraded.				
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.				
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.				

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	A
5b	A	5	С	5	В	5	N/A
6	В	6	С	6	В	6	A

Enhancement Potential	Wetland has high potential for enhancement.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational opportunities.
Aesthetic Quality	The wetland is considered to be moderately pleasing.

Wildlife Ha	ıbitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	No open wa		y woody vegetation. Adjacent land is mostly agriculture. connections, but other unconnected wetlands within 3 mile han 40%.
Fish Habi	itat	Assessment Result	N/A. Fish habitat is not present,
Rational:			
Water Qua	ılity	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	of flooding	_	roundwater, most likely from US Feed Canal. No evidence ion of open season. Land use within 500 ft of wetland vegetation cover.
Hydrologic C	Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:		o downstream or down	Dominated by woody vegetation. No evidence of slope edge of wetland. Dominant land use in watershed
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to future impacts.
Rational:			Water is taken out of the US Feed Canal. Dominant. Zoned for developed uses. Dominant woody vegetation.
Enhancement P	otential	Assessment Result	Wetland has high enhancement potential.
Rational:		_	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vie	ewing spot for limited mobility individuals.
Recreatio	n	Assessment Result	The wetland is not appropriate/does not provide recreational opportunity.
		oint. No boat launch. N fishing. No hunting.	o trails or viewing areas. Provides some habitat for
Aesthetic Qu	ality	Assessment Result	The wetland is considered to be moderately pleasing.
Rational:	Site not visi	ble from access or view	ring area. Aerials show surrounding area to be open space.

(Revised Edition, April 1996)

#### **Wetland Assessment Summary Sheet Hermiston Local Wetland Inventory** Wetland Mapping Code: Date(es) of Fieldwork: Q 7/10/2012

Size (acres):

1.01

Investigator:

MRS

Wetland Types:

PEM

Data Sheet #:

21, 22

Wetland Location: Minnehaha Spring, north of Minnehaha Rd, south of Umatilla River.

Wetland Viewing: On-site

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A	
1	C	1	A	1	C	1	В	1	A	
2	В	2	В	2	С	2	С	2	A	
3	C	3	C	3	A	3	В	3	Α	
4	N/A	4	C	4	В	4	С	4	С	
5	A	5	A	5	C	5	В	5	С	
6	A	6	A	6	A	6	С	6	С	
7	C					7	A			
8	A									
9B	A									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is impacted or degraded.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	С
2	В	2	В	2	С	2	C
3	A	3	В	3	С	3	A
4	В	4	С	4	В	4	A
5B	A	5	C	5	A	5	A
6	В	6	В	6	В	6	A

Enhancement Potential	Wetland has high enhancement potential.				
Education	Wetland site is not appropriate for educational use.				
Recreation	The wetland is not appropriate/does not provide recreational opportunities.				
Aesthetic Quality	Wetland is not pleasing.				

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	open water		wer species. Emergent vegetation. Low interspersion. No ater quality limited. Connected to another wetland within 3 is open space.
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:			river modified Less than 10% woody debris. Water nt. Sensitive species at some time during year.
Water Qu	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	within 500		ring fed. No evidence of flooding or ponding. Land use en space. High degree of vegetation cover. Adjacent to ity limited.
Hydrologic (	Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:		vetland. Dominant exist	evidence of flooding. Between .5-5 acres. Unrestricted ing land use down stream is open space. Dominant
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to impacts.
Rational:	taken out of	f the Umatilla River. Do	fied by humans less than mile above wetland. Water is minant surrounding land use is open space. Zoned for getation. River is water quality limited.
Enhancement l	Potential	Assessment Result	Wetland has high enhancement potential,
Rational:		_	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to spring.	o site is allowed. No vie	wing spot for limited mobility individuals. Steep slope to
Recreation	on	Assessment Result	The wetland is not appropriate/does not provide recreational opportunities.
Rational:	_		o trails or viewing areas. Provides some habitat for Jmatilla River. No hunting.
Aesthetic Qu	uality	Assessment Result	Wetland is not pleasing.
Rational:			ewing area. Less than 25% of wetland seen from viewing ace. Natural odors. Some traffic and background noises.

**→** . . .

(Revised Edition, April 1996)

# Wetland Assessment Summary Sheet Hermiston Local Wetland Inventory Wetland Mapping Code: R Date(es) of Fieldwork: 7/10/2012

Size (acres): 0.7 Investigator: MRS

Wetland Types: PFO
Data Sheet #: Off-site

Wetland Location: Southern bank of the Umatilla River. North of Minnehaha Rd, along western UGB boundary.

Wetland Viewing: Off-site, no access/viewing location.

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A	
1	С	1	В	1	С	1	A	1	В	
2	Α	2	A	2	С	2	A	2	A	
3	C	3	С	3	В	3	В	3	A	
4	N/A	4	С	4	В	4	C	4	C	
5	В	5	A	5	С	5	A	5	A	
6	В	6	A	6	A	6	С	6	A	
7	С					7	С			
8	A							1		
9R	Δ									

#### Results:

Wildlife Wetland provides habitat for some wildlife species.			
Fish	Wetland's fish habitat function is impacted or degraded.		
Water Quality	Wetland's water-quality function is impacted or degraded.		
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.		
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.		

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	N/A
5B	A	5	С	5	A	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland has potential to provide recreational opportunities.
Aesthetic Quality	The wetland is considered to be moderately pleasing.

Wildlife Ha	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	No open w	ater. No surface water o	y woody vegetation. Adjacent land is mostly open space. connections, but other unconnected wetlands within 3 mile than 40%. Upstream reach listed water quality limited.
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:			annel. Less than 10% woody debris. Water quality limited. ecies at some time during year.
Water Qua	ılity	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	Evidence o wetland ed	f flooding or ponding d	roundwater, most likely from seep from side of slope. uring portion of open season. Land use within 500 ft of rate degree of vegetation cover. Adjacent to Umatilla ed.
Hydrologic C	Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:			lood plain. Dominated by woody vegetation. Evidence of wetland. Downstream use is open space. Upstream use
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to future impacts.
Rational:	is taken out	of the Umatilla River.	nodified by humans less than 1 mile above wetland. Water Dominant surrounding land use is open space. Zoned for vegetation. River is water quality limited.
Enhancement P	otential	Assessment Result	Wetland has high enhancement potential.
Rational:		_	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vi	ewing spot for limited mobility individuals.
Recreatio	n	Assessment Result	The wetland has potential to provide recreational opportunities.
			Io trails or viewing areas. Provides some habitat for Umatilla River. No hunting.
Aesthetic Qu	ality	Assessment Result	The wetland is considered to be moderately pleasing.
Rational:	Site not visi	ble from access or view	ving area. Area can only be assessed by aerial images.

(Revised Edition, April 1996)

Wetlan	d Assessment Summary Sheet	
Herm	iston Local Wetland Inventory	
Wetland Mapping Code: S	Date(es) of Fieldwork:	7/10/2012

Size (acres):

4.23

Investigator:

MRS

Wetland Types: Data Sheet #:

PFO Off-site

Wetland Location: Eastern bank of Umatilla River. West of Rivercrest Ln.

Wetland Viewing: Off-site, no access/viewing location.

Wetland of Special Interest

### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A	
1	A	1	В	1	C	1	A	1	A	
2	A	2	A	2	С	2	A	2	A	
3	С	3	С	3	В	3	В	3	A	
4	N/A	4	С	4	В	4	С	4	С	
5	В	5	A	5	С	5	A	5	A	
6	В	6	A	6	A	6	С	6	A	
7	С					7	С	***************************************		
8	A							•		
9B	Α									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is impacted or degraded.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is sensitive to future impacts.

2019 C 20	ncement ential	Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	В	2	N/A	2	C	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	N/A
5B	A	5	С	5	A	5	N/A
6	C	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high enhancement potential.				
Education	Wetland site is not appropriate for educational use.				
Recreation	The wetland has potential to provide recreational opportunities.				
Aesthetic Quality	The wetland is considered to be moderately pleasing.				

Wildlife Ha	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	space. No o	open water. No surface	I by woody vegetation. Adjacent land is mostly open water connections, but other unconnected wetlands within treater than 40%. Upstream reach listed water quality
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:			annel. Less than 10% woody debris. Water quality limited. ecies at some time during year.
Water Qua	ılity	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	Evidence o wetland ed	f flooding or ponding d	roundwater, most likely from seep from side of slope. uring portion of open season. Land use within 500 ft of rate degree of vegetation cover. Adjacent to Umatilla id.
Hydrologic C	'ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:			lood plain. Dominated by woody vegetation. Evidence of wetland. Downstream use is open space. Upstream use
Sensitivity to	Impact	Assessment Result	Wetland is sensitive to impact,
Rational:	taken out of	f the Umatilla River. D	ified by humans less than 1 mile above wetland. Water is ominant surrounding land use is open space. Zoned for vegetation. River is water quality limited.
Enhancement F	otential	Assessment Result	Wetland has high enhancement potential.
Rational:		•	degraded. Wetland buffer is greater than 40%. Wetland is sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vie	ewing spot for limited mobility individuals.
Recreation	n	Assessment Result	The wetland has potential to provide recreational opportunities.
Rational:			o trails or viewing areas. Provides some habitat for Umatilla River. No hunting.
Aesthetic Qu	ality	Assessment Result	The wetland is considered to be moderately pleasing.
Rational:	Site not visi	ble from access or view	ving area. Area can only be assessed by aerial images.

(Revised Edition, April 1996)

Wetlan	d Assessment Summary Sheet	
Hermi	iston Local Wetland Inventory	
Wetland Mapping Code: T	Date(es) of Fieldwork:	7/10/2012

Size (acres):

1.73

Investigator:

MRS

Wetland Types:

PFO, PEM

Data Sheet #:

23

Wetland Location: Eastern bank of Umatilla River. South of W. Alleluia Ave.

Wetland Viewing: Off-site, seen from adjoining property.

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlif	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	Ā	
1	A	1	В	1	С	1	A	1	A	
2	Α	2	A	2	С	2	A	2	A	
3	С	3	С	3	В	3	В	3	A	
4	N/A	4	С	4	В	4	С	4	С	
5	В	5	A	5	С	5	A	5	A	
6	В	6	A	6	A	6	С	6	A	
7	С					7	A		***************************************	
8	C							ı		
9B	A									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.			
Fish	Wetland's fish habitat function is impacted or degraded.			
Water Quality	Wetland's water-quality function is impacted or degraded.			
Hydrologic Control	Wetland's hydrologic control is intact.			
Sensitivity to Impact	Wetland is sensitive to future impacts.			

	nhancement Education		Recr	eation	Aesthetic Quality		
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	В
2	В	2	N/A	2	С	2	A
3	N/A	3	В	3	С	3	Α
4	В	4	С	4	В	4	В
5b	A	5	С	5	A	5	A
6	С	6	В	6	В	6	A

Enhancement Potential	Wetland has high enhancement potential.				
Education	Wetland site is not appropriate for educational use.				
Recreation	The wetland has potential to provide recreational opportunities.				
Aesthetic Quality	The wetland is considered pleasing.				

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	No open wa	ater. No surface water o	d by woody vegetation. Adjacent land is mostly developed. connections, but other unconnected wetlands within 3 mile than 40%. Upstream reach listed water quality limited.
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:			annel. Less than 10% woody debris. Water quality limited. ecies at some time during year.
Water Qua	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	Evidence of wetland edg	f flooding or ponding d	roundwater, most likely from seep from side of slope. uring portion of open season. Land use within 500 ft of rate degree of vegetation cover. Adjacent to Umatilla ed.
Hydrologic C	Control	Assessment Result	Wetland's hydrologic control is intact.
Rational:		nrestricted flow out of	lood plain. Dominated by woody vegetation. Evidence of wetland. Downstream use is open space. Upstream use is
Sensitivity to	Impact	Assessment Result	Wetland is sensitive to impact.
Rational:	taken out of	f the Umatilla River. D	ified by humans less than 1 mile above wetland. Water is cominant surrounding land use is open space. Zoned for vegetation. River is water quality limited.
Enhancement I	otential	Assessment Result	Wetland has high enhancement potential.
Rational:			degraded. Wetland buffer is greater than 40%. Wetland is sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vi	ewing spot for limited mobility individuals.
Recreation	on	Assessment Result	The wetland has potential to provide recreational opportunities.
Rational:	-		lo trails or viewing areas. Provides some habitat for Umatilla River. No hunting.
Aesthetic Qu	ıality	Assessment Result	The wetland is considered pleasing.
Rational:		<del></del>	adjacent property. Two Cowardin classes. No visual cople. Natural odors. Some traffic and background noise.

(Revised Edition, April 1996)

Wetland	d Assessment Summary Sheet	
Hermi	ston Local Wetland Inventory	
Wetland Mapping Code: U	Date(es) of Fieldwork:	7/10/2012

Size (acres):

1.11

of Fieldwork: Investigator:

MRS

Wetland Types:

PEM

Data Sheet #:

Off-site

Wetland Location: Eastern bank of Umatilla River. Northwest of Riverfront Park.

Wetland Viewing: Off-site, no access/viewing location.

Wetland of Special Interest

### Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat Fish Ha		Fish Habitat Water Quality		Hydrologic Control		Sensitivity to Impact		
Q	A	Q	A	Q	A	Q	A	Q	A
1	C	1	В	1	С	1	A	1	В
2	A	2	A	2	С	2	A	2	A
3	С	3	С	3	В	3	В	3	A
4	N/A	4	С	4	В	4	С	4	C
5	В	5	A	5	С	5	A	5	A
6	В	6	A	6	A	6	С	6	A
7	C					7	С		
8	A				1	·····		,	
9B	Α								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species. Wetland's fish habitat function is impacted or degraded.			
Fish				
Water Quality	Wetland's water-quality function is impacted or degraded.			
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.			
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.			

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	В	2	N/A	2	С	2	N/A
3	N/A	3	В	3	C	3	N/A
4	В	4	С	4	В	4	N/A
5B	A	5	С	5	A	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high enhancement potential.				
Education	Wetland site is not appropriate for educational use.				
Recreation	The wetland has potential to provide recreational opportunities.				
Aesthetic Quality	The wetland is considered to be moderately pleasing.				

Wildlife Ha	ibitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	No open w	ater. No surface water o	y woody vegetation. Adjacent land is mostly open space. connections, but other unconnected wetlands within 3 mile than 40%. Upstream reach listed water quality limited.
Fish Hab	itat	Assessment Result	Wetland's fish habitat is impacted or degraded.
Rational:			annel. Less than 10% woody debris. Water quality limited. ecies at some time during year.
Water Qua	ility	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	Evidence of wetland ed	of flooding or ponding d	roundwater, most likely from seep from side of slope. uring portion of open season. Land use within 500 ft of rate degree of vegetation cover. Adjacent to Umatilla d.
Hydrologic C	ontrol	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Rational:			lood plain. Dominated by woody vegetation. Evidence of wetland. Downstream use is open space. Upstream use
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to impacts.
Rational:	is taken out	t of the Umatilla River.	nodified by humans less than mile above wetland. Water Dominant surrounding land use is open space. Zoned for vegetation. River is water quality limited.
Enhancement P	otential	Assessment Result	Wetland has high enhancement potential.
Rational:		-	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has groundwater
Educatio	n	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access t	o site is allowed. No vie	ewing spot for limited mobility individuals.
Recreatio	n	Assessment Result	The wetland has potential to provide recreational opportunities.
			o trails or viewing areas. Provides some habitat for Umatilla River. No hunting.
Aesthetic Qu	ality	Assessment Result	The wetland is considered to be moderately pleasing.
Rational:	Site not vis	ible from access or view	ring area. Area can only be assessed by aerial images.

(Revised Edition, April 1996)

Wetland Mapping Cod	le: W	Date(es) of Fieldwork:	7/10/2012
	Herm	iston Local Wetland Inventory	
	Wetlan	d Assessment Summary Sheet	

Size (acres):

0.89

Investigator:

MRS

Wetland Types:

**PFO** 

Data Sheet #:

Off-site

Wetland Location: West of W Elm Avenue. East of Umatilla River.

Wetland Viewing: Off-site, no access/viewing location.

## Function and Condition Assessment Answers:

Wildlife	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	Α	Q	A	Q	A	Q	A	
1	C	1	N/A	1	A	1	A	1	N/A	
2	A	2	N/A	2	C	2	В	2	A	
3	С	3	N/A	3	A	3	В	3	A	
4	N/A	4	N/A	4	В	4	A	4	В	
5	В	5	N/A	5	В	5	A	5	A	
6	В	6	N/A	6	A	6	N/A	6	A	
7	С					7	A		***************************************	
8	В							ı		
9B	A									

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is intact.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	C	1	C	1	N/A
2	A	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	N/A
5b	A	5	С	5	В	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high enhancement potential.				
Education	Wetland site is not appropriate for educational use.				
Recreation	The wetland is not appropriate/does not provide recreational activities.				
Aesthetic Quality	The wetland is moderately pleasing.				

Wild	life Habitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	water. No s	surface water connection	y woody vegetation. Adjacent land is agriculture. No open ns, unconnected wetlands within 3 mile radius. Wetlands am reach listed water quality limited.
Fis	h Habitat	Assessment Result	Wetland's fish habitat is lost or not present.
Rational:			
Wat	er Quality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	flooding or	ponding during portion. High degree of vegeta	urface flow, most likely from ditches. No evidence of n of open season. Land use within 500 ft of wetland edge is tion cover. Adjacent to Umatilla River which is water
Hydrol	ogic Control	Assessment Result	Wetland's hydrologic control is intact.
Rational:		•	lood plain. Dominated by woody vegetation. Unable to o outlet. No downstream. Upstream use urbanizing.
Sensitiv	vity to Impact	Assessment Result	Wetland is potentially sensitive to impacts.
Rational:			ninant surrounding land use is agriculture. Zoned for vegetation. River is water quality limited.
Enhancei	ment Potential	Assessment Result	Wetland has high enhancement potential.
Rational:		and 5 acres. Wetland is	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has surface flow
Ed	ucation	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vi	ewing spot for limited mobility individuals.
Red	creation	Assessment Result	The wetland is not appropriate/does not provide recreational opportunities.
Rational:	_	oint. No boat launch. No fishing. No hunting.	To trails or viewing areas. Provides some habitat for
Aesthe	tic Quality	Assessment Result	The wetland is moderately pleasing,
Rational:	Site not visi	ble from access or view	ving area. Area can only be assessed by aerial images.

(Revised Edition, April 1996)

#### Wetland Assessment Summary Sheet **Hermiston Local Wetland Inventory** Wetland Mapping Code: X Date(es) of Fieldwork: 7/10/2012

Size (acres):

2.98

Investigator:

MRS

Wetland Types:

PFO

Data Sheet #:

Off-site

Wetland Location: Northwest of W Elm Avenue. East of Umatilla River. North of Wetland W.

Wetland Viewing: Off-site, no access/viewing location.

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	Α	Q	A	Q	A	Q	A
1	С	1	N/A	1	A	1	A	1	N/A
2	Α	2	N/A	2	С	2	В	2	A
3	С	3	N/A	3	A	3	В	3	A
4	N/A	4	N/A	4	В	4	A	4	В
5	В	5	N/A	5	В	5	A	5	A
6	В	6	N/A	6	A	6	N/A	6	A
7	С					7	A		*****
8	В					·		1	
OP	A								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is lost or not present.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is intact.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	A	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	N/A
5b	A	5	C	5	В	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational activates.
Aesthetic Quality	The wetland is moderately pleasing.

Wildlife F	Iabitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	water. No s	surface water connection	by woody vegetation. Adjacent land is agriculture. No open ns, unconnected wetlands within 3 mile radius. Wetlands am reach listed water quality limited.
Fish Hal	oitat	Assessment Result	Wetland's fish habitat is lost or not present.
Rational:			
Water Qu	uality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	flooding or	ponding during portion High degree of vegeta	urface flow, most likely from ditches. No evidence of a of open season. Land use within 500 ft of wetland edge is tion cover. Adjacent to Umatilla River which is water
Hydrologic	Control	Assessment Result	Wetland's hydrologic control is intact.
Rational:			lood plain. Dominated by woody vegetation. Unable to o outlet. No downstream. Upstream use urbanizing.
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to impacts.
Rational:			ninant surrounding land use is agriculture. Zoned for vegetation. River is water quality limited.
Enhancement	Potential	Assessment Result	Wetland has high enhancement potential.
Rational:		and 5 acres. Wetland is	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has surface flow
Educati	on	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access to	o site is allowed. No vi	ewing spot for limited mobility individuals.
Recreati	on	Assessment Result	The wetland is not appropriate/does not provide recreational opportunities.
Rational:		oint. No boat launch. No fishing. No hunting.	lo trails or viewing areas. Provides some habitat for
Aesthetic Q	uality	Assessment Result	The wetland is moderately pleasing.
Rational:	Site not visi	ble from access or view	ving area. Area can only be assessed by aerial images.

(Revised Edition, April 1996)

Wetlar	nd Assessment Summary Sheet	
Herm	niston Local Wetland Inventory	
Wetland Mapping Code: Y	Date(es) of Fieldwork:	7/10/2012

Size (acres):

2.18

) of Fieldwork: Investigator:

MRS

Wetland Types:

PFO, OW

Data Sheet #:

Off-site

Wetland Location: West of Mconnel Ln terminus. West of NW 15th St. East of Umatilla River

Wetland Viewing: Off-site, no access/viewing location.

## Function and Condition Assessment Answers:

Wildlif	Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A	
1	С	1	В	1	A	1	A	1	N/A	
2	A	2	C	2	С	2	В	2	A	
3	С	3	С	3	A	3	В	3	A	
4	Α	4	С	4	В	4	A	4	В	
5	A	5	В	5	В	5	A	5	A	
6	В	6	N/A	6	A	6	N/A	6	A	
7	С					7	A			
8	В					<del></del>		•		
9B	Α									

### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is impacted or degraded.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is intact.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

Enhancement Potential		Education		Recr	eation	Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
1	A	1	С	1	С	1	N/A
2	A	2	N/A	2	С	2	N/A
3	N/A	3	В	3	С	3	N/A
4	В	4	С	4	В	4	N/A
5B	A	5	C	5	В	5	N/A
6	В	6	В	6	В	6	N/A

Enhancement Potential	Wetland has high enhancement potential.
Education	Wetland site is not appropriate for educational use.
Recreation	The wetland is not appropriate/does not provide recreational activities.
Aesthetic Quality	The wetland is moderately pleasing.

Wildlife H	abitat	Assessment Result	Wetland provides habitat for some wildlife species.
Rational:	than an acr	e open water. Surface ville radius. Wetlands but	by woody vegetation. Adjacent land is agriculture. More vater connections via ditches, unconnected wetlands ffer is greater than 40%. Upstream reach listed water
Fish Hal	oitat	Assessment Result	Wetlands fish habitat is impacted or degraded.
Rational:		iver is water quality lin	n 10% submerged vegetation. Less than 20% shade. nited. Adjacent land use is agriculture. N/A on fish species.
Water Qu	ality	Assessment Result	Wetland's water-quality is impacted or degraded.
Rational:	flooding or	ponding during portion. High degree of vegeta	urface flow, most likely from ditches. No evidence of n of open season. Land use within 500 ft of wetland edge is tion cover. Adjacent to Umatilla River which is water
Hydrologic (	Control	Assessment Result	Wetland's hydrologic control is intact.
Rational:		•	lood plain. Dominated by woody vegetation. Unable to o outlet. No downstream. Upstream use urbanizing.
Sensitivity to	Impact	Assessment Result	Wetland is potentially sensitive to impacts.
Rational:			minant surrounding land use is agriculture. Zoned for vegetation. River is water quality limited.
Enhancement	Potential	Assessment Result	Wetland has high enhancement potential.
Rational:		and 5 acres. Wetland is	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has surface flow
Educatio	on	Assessment Result	Wetland site is not appropriate for educational use.
Rational:	No access t	o site is allowed. No vi	ewing spot for limited mobility individuals.
Recreation	on	Assessment Result	The wetland is not appropriate/does not provide recreational opportunities.
Rational:	_	ooint. No boat launch. No fishing. No hunting.	No trails or viewing areas. Provides some habitat for
Aesthetic Q	uality	Assessment Result	The wetland is moderately pleasing,
Rational:	Site not visi	ble from access or view	ving area. Area can only be assessed by aerial images.

(Revised Edition, April 1996)

Wetlar	nd Assessment Summary Sheet	
Herm	iston Local Wetland Inventory	
Wetland Mapping Code: Z	Date(es) of Fieldwork:	7/10/2012

Size (acres):

2.01

Investigator:

MRS

Wetland Types:

PEM, PFO

Data Sheet #:

13, 14, 15, 47

Wetland Location: North of corner to SW 23rd St. North of Co 1238 Rd. Northwest of Wetland F2.

Wetland Viewing: On-site

Wetland of Special Interest

#### Function and Condition Assessment Answers:

Wildlife Habitat		Fish H	abitat	Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
1	С	1	С	1	A	1	A	1	A
2	С	2	В	2	A	2	A	2	A
3	C	3	С	3	В	3	В	3	Α
4	С	4	С	4	В	4	С	4	С
5	A	5	A	5	С	5	C	5	С
6	Α	6	A	6	A	6	C	6	В
7	C					7	C	***************************************	***************************************
8	A				'	<u> </u>		1	
9B	А								

#### Results:

Wildlife	Wetland provides habitat for some wildlife species.
Fish	Wetland's fish habitat function is impacted or degraded.
Water Quality	Wetland's water-quality function is impacted or degraded.
Hydrologic Control	Wetland's hydrologic control is impacted or degraded.
Sensitivity to Impact	Wetland is potentially sensitive to future impacts.

Enhancement Potential		Education		Recr	Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A	
1	A	1	A	1	A	1	A	
2	A	2	A	2	С	2	A	
3	A	3	В	3	A	3	A	
4	В	4	A	4	В	4	A	
5b	Α	5	A	5	A	5	A	
6	В	6	A	6	В	6	A	

Enhancement Potential	Wetland has moderate enhancement potential.	***************************************
Education	Wetland has educational uses.	
Recreation	Wetland provides recreational opportunities.	
Aesthetic Quality	Wetland is considered pleasing.	

Wildlife Habitat	Assessment Result	Wetland provides habitat for some wildlife species.
Less than	5 acres open water. Con	ewer species. Emergent vegetation. Low interspersion. nected to river. Water quality limited. Connected to us. Land use within 500 ft is open space.
Fish Habitat	Assessment Result	Wetland's fish habitat is impacted or degraded.
		river modified Less than 10% woody debris. Water nt. Sensitive species at some time during year.
Water Quality	Assessment Result	Wetland's water-quality is impacted or degraded.
use within :	500 ft of wetland edge i	ole from a pipe. Evidence of flooding or ponding. Land s open space. Moderate degree of vegetation cover. is water quality limited.
Hydrologic Control	Assessment Result	Wetland's hydrologic control is impacted or degraded.
Emergent v	egetation. Dominant las	nce of flooding. Between .5 and 5 acres. Unrestricted flow. and use within 500 feet of wetland is open space. Dominant om assessment area is urbanizing.
Sensitivity to Impact	Assessment Result	Wetland is potentially sensitive to impacts.
taken out of	f the Umatilla River. Do	ified by humans less than mile above wetland. Water is ominant surrounding land use is open space. Zoned for egetation. River is water quality limited.
Enhancement Potential	Assessment Result	Wetland has moderate enhancement potential.
	and 5 acres. Wetland is	degraded. Wetland buffer is greater than 40%. Wetland is potentially sensitive to impacts. Wetland has surface
Education	Assessment Result	Wetland has educational uses.
	-	ole hazards. Public access exists or is easily created. edge. Viewing spot for individuals with limited mobility.
Recreation	Assessment Result	Wetland provides recreational opportunities.
		ccess. Developed trails. Provides some habitat from some natilla River. No hunting allowed.
Aesthetic Quality	Assessment Result	Wetland is not pleasing.
		ewing area. Less than 25% of wetland seen from viewing ace. Natural odors. Some traffic and background noises.

## APPENDIX F: SIGNIFICANT WETLAND DETERMINATION SHEETS

Hermiston Local Wetland Inventory		
Wetland Mapping Code: A Date(es) of Fieldwork:	7/10/2012	***************************************
Size (acres): 2.61 Wetland Types: PEM		
Exclusions: Wetland cannot be designated as locally significant if the answer to any		
of the criteria is "Yes".	YES	NO
1 Is the wetland artificially created from upland and:	<u></u>	Χ
a. Created for the purpose of controlling, storing, or maintaining stormwater		X
b. Active surface mining or active log ponds		Χ
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish		X
d. Less than one acre in size and created unintentionally as the result of irrigation		
or construction		X
e. Created for the purpose of wastewater treatment, cranberry production, farm or		
stock watering, settling of sediment, cooling industrial water, or a golf course		
hazard		X
Is the wetland or portion of the wetland contaminated by hazardous		
substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
Exclusion criteria satisfied?		X
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets	<u> </u>	<i>X</i>
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
2 Is the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?		X
4 Is the wetland's hydrologic control function intact?		X
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		<u></u>
water quality limited water body (303(d)list) AND is the <i>water quality</i>		
function intact, or impacted or degraded?	***************************************	X
6 Does the wetland contain rare plant communities?		Λ
		······································
7 Is the wetland inhabited by any federally listed threatened or endangered, or		37
state listed sensitive, threatened or endangered?		X
8 Does the wetland have direct surface water connection to stream segment	İ	
mapped by ODFW as habitat for indigenous anadromous salmonids AND is the wetland's <i>fish habitat function intact, or impacted or degraded?</i>		37
		X
Mandatory Locally Significant Wetland criteria satisfied?		X
Optional Local Significant Wetland Criteria: Local governments may identify a		
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded		•.
hydrologic control function.		X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?		X
Optional Locally Significant Wetland criteria satisfied?		X

:			

Wetland Mapping Code: B   Date(es) of Fieldwork: 7/10/2012     Size (acres): 6.11   Wetland Types: PEM     Exclusions: Wetland cannot be designated as locally significant if the answer to any of the criteria is "Yes".   YES   NO     1   Is the wetland artificially created from upland and: X
Exclusions: Wetland cannot be designated as locally significant if the answer to any of the criteria is "Yes".  1 Is the wetland artificially created from upland and:  X
of the criteria is "Yes".  1 Is the wetland artificially created from upland and:  X
1 Is the wetland artificially created from upland and:
a. Created for the purpose of controlling, storing, or maintaining stormwater X
b. Active surface mining or active log ponds X
c. Ditches without a free and open connection to natural waters of the state and
which do not contain food or game fish X
d. Less than one acre in size and created unintentionally as the result of irrigation
or construction X
e. Created for the purpose of wastewater treatment, cranberry production, farm or
stock watering, settling of sediment, cooling industrial water, or a golf course
hazard
2 Is the wetland or portion of the wetland contaminated by hazardous
substances, materials or wastes per the conditions of OR141-086-0350 1(b)
Exclusion criteria satisfied? X
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets
one or more of the criteria listed below (using the OFWAM criteria).
1 Does the wetland provide diverse wildlife habitat?
2 Is the wetland's fish habitat function intact?
3 Is the wetland's water quality function intact?
4 Is the wetland's hydrologic control function intact?
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a
water quality limited water body (303(d)list) AND is the water quality
function intact, or impacted or degraded?
6 Does the wetland contain rare plant communities?
7 Is the wetland inhabited by any federally listed threatened or endangered, or
state listed sensitive, threatened or endangered?
8 Does the wetland have direct surface water connection to stream segment
mapped by ODFW as habitat for indigenous anadromous salmonids AND is
the wetland's fish habitat function intact, or impacted or degraded?
Mandatory Locally Significant Wetland criteria satisfied? X
Optional Local Significant Wetland Criteria: Local governments may identify a
wetland as significant if "yes" answered to any of the criteria below.
1 Does the wetland represent a locally unique native plant community AND
provide diverse wildlife habitat or habitat for some species OR has and intact,
or impacted or degraded fish habitat function OR has a intact, or impacted or
degraded water quality function OR has a intact, or impacted or degraded
hydrologic control function. X
2 Is the wetland publicly owned and used by a school or organization AND does
the wetland provide educational uses?
Optional Locally Significant Wetland criteria satisfied? X

	Hermiston Local Wetland Inventory		
	and Mapping Code: C Date(es) of Fieldwork:	7/10/2012	
Size	(acres): 12.77 Wetland Types: PEM		
Excl	usions: Wetland cannot be designated as locally significant if the answer to any		
	of the criteria is "Yes".	YES	NO
1	Is the wetland artificially created from upland and:		X
	Created for the purpose of controlling, storing, or maintaining stormwater		X
	Active surface mining or active log ponds		X
c.	Ditches without a free and open connection to natural waters of the state and		
	which do not contain food or game fish		X
d.	Less than one acre in size and created unintentionally as the result of irrigation		
	or construction	3	X
e.	Created for the purpose of wastewater treatment, cranberry production, farm or		
	stock watering, settling of sediment, cooling industrial water, or a golf course		
	hazard		X
2	Is the wetland or portion of the wetland contaminated by hazardous		
	substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Mana	latory Locally Significant Criteria: A wetland is locally significant if it meets		
one o	r more of the criteria listed below (using the OFWAM criteria).		
1	Does the wetland provide diverse wildlife habitat?		X
2	Is the wetland's fish habitat function intact?		Χ
3	Is the wetland's water quality function intact?		Χ
4	Is the wetland's hydrologic control function intact?		X
5	Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
	water quality limited water body (303(d)list) AND is the water quality		
	function intact, or impacted or degraded?		X
6	Does the wetland contain rare plant communities?		X
7	Is the wetland inhabited by any federally listed threatened or endangered, or		
	state listed sensitive, threatened or endangered?		X.
8	Does the wetland have direct surface water connection to stream segment		
	mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
	the wetland's fish habitat function intact, or impacted or degraded?		X
THY	Mandatory Locally Significant Wetland criteria satisfied?		X
Option	nal Local Significant Wetland Criteria: Local governments may identify a	<u></u>	
	d as significant if "yes" answered to any of the criteria below.		
	Does the wetland represent a locally unique native plant community AND		
	provide diverse wildlife habitat or habitat for some species OR has and intact,	***************************************	
	or impacted or degraded fish habitat function OR has a intact, or impacted or		
i	degraded water quality function OR has a intact, or impacted or degraded		
	hydrologic control function.	ĺ	X
2	Is the wetland publicly owned and used by a school or organization AND does		
	the wetland provide educational uses?		Χ
1.5.4.5	Optional Locally Significant Wetland criteria satisfied?		X

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	•		

A really, Animal e	Hermiston Local Wetland Inventory			
	tland Mapping Code: D Date(es) of Fieldwork: 7/10/2012			
Size (acres		Э		
Exclusions	: Wetland cannot be designated as locally significant if the answer to any	<u> </u>		
. 19.19	of the criteria is "Yes".	YES N	ИO	
	wetland artificially created from upland and:		X	
	ted for the purpose of controlling, storing, or maintaining stormwater		X	
************	e surface mining or active log ponds		X	
	nes without a free and open connection to natural waters of the state and			
	h do not contain food or game fish		X	
	than one acre in size and created unintentionally as the result of irrigation			
or co	nstruction		X	
e. Crea	ed for the purpose of wastewater treatment, cranberry production, farm or			
stock	watering, settling of sediment, cooling industrial water, or a golf course			
hazar	d		X	
2 Is the	wetland or portion of the wetland contaminated by hazardous			
	ances, materials or wastes per the conditions of OR141-086-0350 1(b)		X	
	Exclusion criteria satisfied?		X	
Mandatory	Locally Significant Criteria: A wetland is locally significant if it meets		<del></del>	
one or more	of the criteria listed below (using the OFWAM criteria).			
1 Does	the wetland provide diverse wildlife habitat?	2	X	
2 Is the	wetland's fish habitat function intact?		X	
,	wetland's water quality function intact?		X	
§	wetland's hydrologic control function intact?		X	
	wetland less than 1/4 mile from a water body listed by the DEQ as a			
1	quality limited water body (303(d)list) AND is the water quality			
	on intact, or impacted or degraded?		X	
	the wetland contain rare plant communities?		X	
\$	wetland inhabited by any federally listed threatened or endangered, or	•	' <b>k</b>	
	listed sensitive, threatened or endangered?	,	X	
Į	the wetland have direct surface water connection to stream segment		<u></u>	
	ed by ODFW as habitat for indigenous anadromous salmonids AND is			
	etland's fish habitat function intact, or impacted or degraded?	,	X	
	Mandatory Locally Significant Wetland criteria satisfied?	······································	<u>^</u> Х	
Ontional Lo	cal Significant Wetland Criteria: Local governments may identify a		<u>\</u>	
	ignificant if "yes" answered to any of the criteria below.			
····	the wetland represent a locally unique native plant community AND			
- E	le diverse wildlife habitat or habitat for some species OR has and intact,	***************************************		
•	pacted or degraded fish habitat function OR has a intact, or impacted or			
	ded water quality function OR has a intact, or impacted or degraded			
-	logic control function.		J.	
		, X	<u>.</u>	
	wetland publicly owned and used by a school or organization AND does	,	,	
the we	etland provide educational uses?	<u> </u>		
To early the com-	Optional Locally Significant Wetland criteria satisfied?	X	ζ	

ORS 141-086-0350

Hermiston Local Wetland Inventory

	1101 miston Local Wedand Inventory		
1	nd Mapping Code: E1 Date(es) of Fieldwork:	7/10/2012	
Size (a		√l I	
Exclu	sions: Wetland cannot be designated as locally significant if the answer to any		l
	of the criteria is "Yes".	YES	NO
	Is the wetland artificially created from upland and:		,
	Created for the purpose of controlling, storing, or maintaining stormwater		Χ
	Active surface mining or active log ponds		X
	Ditches without a free and open connection to natural waters of the state and which do not contain food or game fish		X
	Less than one acre in size and created unintentionally as the result of irrigation		
+	or construction		Х
	Created for the purpose of wastewater treatment, cranberry production, farm or	ı	
	stock watering, settling of sediment, cooling industrial water, or a golf course hazard		
2	Is the wetland or portion of the wetland contaminated by hazardous		
	substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?	Х	17000
Manda	ntory Locally Significant Criteria: A wetland is locally significant if it meets		
one or	more of the criteria listed below (using the OFWAM criteria).		
1	Does the wetland provide <i>diverse wildlife habitat</i> ?		X
2 I	s the wetland's fish habitat function intact?		X
3 1	s the wetland's water quality function intact?		Χ
4 I	s the wetland's hydrologic control function intact?		X
5 1	s the wetland less than 1/4 mile from a water body listed by the DEQ as a		
١	water quality limited water body (303(d)list) AND is the water quality		
1	function intact, or impacted or degraded?	X	
6 I	Does the wetland contain rare plant communities?		Χ
7]]	s the wetland inhabitated by any federally listed threatened or endangered, or		
	tate listed senstive, threatened or endangered?		X
8 1	Does the wetland have direct surface water connection to stream segment		*** ** ***************
n	napped by ODFW as habitat for indigenous anadromous salmonids AND is		
t.	he wetland's fish habitat function intact, or impacted or degraded?	ļ	X
	Mandatory Locally Significant Wetland criteria satisfied?	X	
Optiona	al Local Significant Wetland Criteria: Local governments may identify a		
wetlanc	as significant if "yes" answered to any of the criteria below.		
1 [	Poes the wetland represent a locally unique native plant community AND		
p	rovide diverse wildlife habitat or habitat for some species OR has and intact,		
o	r ipmacted or degraded fish habitat function OR has a intact, or impacted or		
d	egraded water quality function OR has a intact, or impacted or degraded		
h	ydrologic control function.		X
2 15	the wetland publicly owned and used by a school or organization AND does		
tl	ne wetland provide educational uses?		X
	Optional Locally Significant Wetland criteria satisfied?		X
	LOCALLY SIGNIFICANT WETLAND		

Hermiston Local Wetland Inventory		
Wetland Mapping Code: E2 Date(es) of Fieldwork:	7/10/2012	
Size (acres): 2.12 Wetland Types: PEM		
Exclusions: Wetland cannot be designated as locally significant if the answer to any		
of the criteria is "Yes".	YES	NO
Is the wetland artificially created from upland and:		X
a. Created for the purpose of controlling, storing, or maintaining stormwater		X
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish		X
<b>d.</b> Less than one acre in size and created unintentionally as the result of irrigation or construction		X
e. Created for the purpose of wastewater treatment, cranberry production, farm or		
stock watering, settling of sediment, cooling industrial water, or a golf course		
hazard		X
Is the wetland or portion of the wetland contaminated by hazardous		
substances, materials or wastes per the conditions of OR141-086-0350 1(b)	Ì	X
Exclusion criteria satisfied?		X
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets	<u></u>	
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
Is the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?		X
4 Is the wetland's hydrologic control function intact?		X
Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?		Х
6 Does the wetland contain rare plant communities?		X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?	į	X
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is	ĺ	
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?		X
Optional Local Significant Wetland Criteria: Local governments may identify a	<u> </u>	
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded		
hydrologic control function.	ļ	X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?		X
Optional Locally Significant Wetland criteria satisfied?		X

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Hermiston Local Wetland Inventory		
Wetland Mapping Code: F1 Date(es) of Fieldwork:	7/10/2012	
Size (acres): 14.68 Wetland Types: PFO		
Exclusions: Wetland cannot be designated as locally significant if the answer to any		
of the criteria is "Yes".	YES	NO
1 Is the wetland artificially created from upland and:		X
a. Created for the purpose of controlling, storing, or maintaining stormwater		X
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish		X
<b>d.</b> Less than one acre in size and created unintentionally as the result of irrigation or construction		X
e. Created for the purpose of wastewater treatment, cranberry production, farm or		
stock watering, settling of sediment, cooling industrial water, or a golf course		
hazard		Х
2 Is the wetland or portion of the wetland contaminated by hazardous		
substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
Exclusion criteria satisfied?		X
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets		
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
2 Is the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?		X
4 Is the wetland's hydrologic control function intact?	******* * * * * * * * * * * * * * * * *	X
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?		X
6 Does the wetland contain rare plant communities?		X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?		X
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?		X
Optional Local Significant Wetland Criteria: Local governments may identify a	·····	
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,	The state of the s	
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded		
hydrologic control function.		X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?	-	Χ
Optional Locally Significant Wetland criteria satisfied?		Χ

	Hermiston Local Wetland Inventory		
Wetland Mapping Code:	F2 Date(es) of Fieldwork:	7/10/2012	
Size (acres): 32.	44 Wetland Types: PFO,PEN	1	
Exclusions: Wetland can	not be designated as locally significant if the answer to any		
	of the criteria is "Yes".	YES	NO
	cially created from upland and:	ş	
	ose of controlling, storing, or maintaining stormwater		X
b. Active surface mining			Χ
	ee and open connection to natural waters of the state and		
which do not contain			Χ
<ul> <li>d. Less than one acre in or construction</li> </ul>	n size and created unintentionally as the result of irrigation		Х
e. Created for the purp	ose of wastewater treatment, cranberry production, farm or		
stock watering, settli	ing of sediment, cooling industrial water, or a golf course	ĺ	
hazard			X
2 Is the wetland or por	tion of the wetland contaminated by hazardous	***************************************	
substances, materials	s or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Mandatory Locally Signific	cant Criteria: A wetland is locally significant if it meets		
one or more of the criteria	listed below (using the OFWAM criteria).		
1 Does the wetland pro	ovide diverse wildlife habitat?		X
2 Is the wetland's fish i	habitat function intact?	30	X
****, **, *****************************	r quality function intact?		X
4 Is the wetland's hydr	ologic control function intact?		Χ
5 Is the wetland less th	an 1/4 mile from a water body listed by the DEQ as a		
water quality limited	water body (303(d)list) AND is the water quality		
function intact, or im	pacted or degraded?	X	
6 Does the wetland cor	ntain rare plant communities?		X
7 Is the wetland inhabi	ted by any federally listed threatened or endangered, or		
state listed sensitive,	threatened or endangered?		X
8 Does the wetland have	ve direct surface water connection to stream segment		
" "	s habitat for indigenous anadromous salmonids AND is	}	
the wetland's fish hal	bitat function intact, or impacted or degraded?		X
Ma	ndatory Locally Significant Wetland criteria satisfied?	Χ	
	Wetland Criteria: Local governments may identify a		
	es" answered to any of the criteria below.		
1 Does the wetland rep	resent a locally unique native plant community AND		* **** * * * * * * * * * * * * * * * * *
į *	ife habitat or habitat for some species OR has and intact,		
·	ded fish habitat function OR has a intact, or impacted or		
	ity function OR has a intact, or impacted or degraded		
hydrologic control fu			Χ
	ly owned and used by a school or organization AND does		
the wetland provide e			X
	Pptional Locally Significant Wetland criteria satisfied?		X
	Locally Significant Wetland		



Wetland Mapping Code: G Date(es) of Fieldwork: 7/10/20	\
	)12
Size (acres): 5.16 Wetland Types: PEM	
Exclusions: Wetland cannot be designated as locally significant if the answer to any	
of the criteria is "Yes".	NO
1 Is the wetland artificially created from upland and:	Х
a. Created for the purpose of controlling, storing, or maintaining stormwater	X
b. Active surface mining or active log ponds	X
c. Ditches without a free and open connection to natural waters of the state and	
which do not contain food or game fish	X
<b>d.</b> Less than one acre in size and created unintentionally as the result of irrigation or construction	X
e. Created for the purpose of wastewater treatment, cranberry production, farm or	
stock watering, settling of sediment, cooling industrial water, or a golf course	
hazard	X
2 Is the wetland or portion of the wetland contaminated by hazardous	
substances, materials or wastes per the conditions of OR141-086-0350 1(b)	X
Exclusion criteria satisfied?	$\frac{x}{x}$
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets	
one or more of the criteria listed below (using the OFWAM criteria).	
1 Does the wetland provide diverse wildlife habitat?	X
2 Is the wetland's fish habitat function intact?	X
3 Is the wetland's water quality function intact?	$\frac{X}{X}$
4 Is the wetland's hydrologic control function intact?	X
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a	71
water quality limited water body (303(d)list) AND is the water quality	
function intact, or impacted or degraded?	X
6 Does the wetland contain rare plant communities?	X
7 Is the wetland inhabitated by any federally listed threatened or endangered, or	
state listed senstive, threatened or endangered?	X
8 Does the wetland have direct surface water connection to stream segment	
mapped by ODFW as habitat for indigenous anadromous salmonids AND is	
the wetland's fish habitat function intact, or impacted or degraded?	X
Mandatory Locally Significant Wetland criteria satisfied?	$\frac{X}{X}$
Optional Local Significant Wetland Criteria: Local governments may identify a	
vetland as significant if "yes" answered to any of the criteria below.	
1 Does the wetland represent a locally unique native plant community AND	
provide diverse wildlife habitat or habitat for some species OR has and intact,	
or ipmacted or degraded fish habitat function OR has a intact, or impacted or	
degraded water quality function OR has a intact, or impacted or degraded	
hydrologic control function.	X
2 Is the wetland publicly owned and used by a school or organization AND does	
the wetland provide educational uses?	X
Optional Locally Significant Wetland criteria satisfied?	$\frac{1}{X}$

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Hermiston Local Wetland Inventory		
	7/10/2012	2
Size (acres): 3.54 Wetland Types: PFO		
Exclusions: Wetland cannot be designated as locally significant if the answer to any		
of the criteria is "Yes".	YES	NO
Is the wetland artificially created from upland and:		X
a. Created for the purpose of controlling, storing, or maintaining stormwater		X
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish		X
<b>d.</b> Less than one acre in size and created unintentionally as the result of irrigation or construction		X
e. Created for the purpose of wastewater treatment, cranberry production, farm or		Λ
stock watering, settling of sediment, cooling industrial water, or a golf course		
hazard		X
2 ls the wetland or portion of the wetland contaminated by hazardous		^
substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
Exclusion criteria satisfied?	<del></del>	X
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets		1 1
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
2 ls the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?		X
4 Is the wetland's hydrologic control function intact?		X
Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?		X
6 Does the wetland contain rare plant communities?		X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?		Х
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is		ļ
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?	······································	X
Optional Local Significant Wetland Criteria: Local governments may identify a		<u> </u>
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded		
hydrologic control function.	İ	X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?		X
Optional Locally Significant Wetland criteria satisfied?		X



14.43.54.5	Hermiston Local Wetland Inventory		
Wetlar	nd Mapping Code: K Date(es) of Fieldwork:	7/10/2012	)
Size (a	cres): 1.44 Wetland Types: PEM		
Exclu.	sions: Wetland cannot be designated as locally significant if the answer to any		
44,43	of the criteria is "Yes".	YES	NO
1	Is the wetland artificially created from upland and:		X
a.	Created for the purpose of controlling, storing, or maintaining stormwater		X
b	Active surface mining or active log ponds		X
<b>c.</b> ]	Ditches without a free and open connection to natural waters of the state and		
•	which do not contain food or game fish		X
d. I	Less than one acre in size and created unintentionally as the result of irrigation		
	or construction	1	X
e. (	Created for the purpose of wastewater treatment, cranberry production, farm or		
	stock watering, settling of sediment, cooling industrial water, or a golf course		
	pazard	1	X
2 Ī	s the wetland or portion of the wetland contaminated by hazardous		ļ
	ubstances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Manda	tory Locally Significant Criteria: A wetland is locally significant if it meets		L^_
	more of the criteria listed below (using the OFWAM criteria).		
	Does the wetland provide diverse wildlife habitat?		X
	s the wetland's fish habitat function intact?		X
	s the wetland's water quality function intact?		X
	s the wetland's hydrologic control function intact?		X
]	s the wetland less than 1/4 mile from a water body listed by the DEQ as a		Λ
W	vater quality limited water body (303(d)list) AND is the water quality	,	
	metion intact, or impacted or degraded?		X
1	loes the wetland contain rare plant communities?		X
	the wetland inhabited by any federally listed threatened or endangered, or		Λ
	ate listed sensitive, threatened or endangered?		v
	oes the wetland have direct surface water connection to stream segment		X
	apped by ODFW as habitat for indigenous anadromous salmonids AND is		
	e wetland's fish habitat function intact, or impacted or degraded?		V
	Mandatory Locally Significant Wetland criteria satisfied?		X
Intiona	Local Significant Wetland Criteria: Local governments may identify a		X
	as significant if "yes" answered to any of the criteria below.		
	oes the wetland represent a locally unique native plant community AND		
	ovide diverse wildlife habitat or habitat for some species OR has and intact,		
	impacted or degraded fish habitat function OR has a intact, or impacted or		
	graded water quality function OR has a intact, or impacted or degraded	j	
	drologic control function.		v
ţ			X
	the wetland publicly owned and used by a school or organization AND does wetland provide <i>educational uses</i> ?		N.C.
Ture National	Optional Locally Significant Wetland criteria satisfied?		X
	Optional Locally Significant Welland Criteria satisfied?		X

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	Hermiston Local Wetland Inventory		
	nd Mapping Code: L Date(es) of Fieldwork:	7/10/2012	
Size (a	21		
Exclus	tions: Wetland cannot be designated as locally significant if the answer to any		
	of the criteria is "Yes".	YES	NO
	s the wetland artificially created from upland and:		X
a. (	Created for the purpose of controlling, storing, or maintaining stormwater	200	X
<b>b.</b> A	Active surface mining or active log ponds		X
c. I	Ditches without a free and open connection to natural waters of the state and		
ν	which do not contain food or game fish		X
d. L	ess than one acre in size and created unintentionally as the result of irrigation		
	or construction	***************************************	X
<b>e.</b> C	Created for the purpose of wastewater treatment, cranberry production, farm or		
	tock watering, settling of sediment, cooling industrial water, or a golf course	1	
h	azard		X
2 Is	s the wetland or portion of the wetland contaminated by hazardous		
	ubstances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Mandat	ory Locally Significant Criteria: A wetland is locally significant if it meets	1.	
and the first of the second	more of the criteria listed below (using the OFWAM criteria).		
1 D	loes the wetland provide diverse wildlife habitat?		X
\$1.111	the wetland's fish habitat function intact?		X
	the wetland's water quality function intact?		X
	the wetland's hydrologic control function intact?		X
	the wetland less than 1/4 mile from a water body listed by the DEQ as a		~ k
w	rater quality limited water body (303(d)list) AND is the water quality	-	
	metion intact, or impacted or degraded?	A BLA	X
	oes the wetland contain rare plant communities?		X
	the wetland inhabited by any federally listed threatened or endangered, or		Λ
	ate listed sensitive, threatened or endangered?		Х
·	oes the wetland have direct surface water connection to stream segment		
i	apped by ODFW as habitat for indigenous anadromous salmonids AND is		
- 1	e wetland's fish habitat function intact, or impacted or degraded?		v
	Mandatory Locally Significant Wetland criteria satisfied?		X
Intional	Local Significant Wetland Criteria: Local governments may identify a	<b>_</b>	<u> </u>
	as significant if "yes" answered to any of the criteria below.		
	oes the wetland represent a locally unique native plant community AND		
	ovide diverse wildlife habitat or habitat for some species OR has and intact,	**************************************	
	impacted or degraded fish habitat function OR has a intact, or impacted or		
	graded water quality function OR has a intact, or impacted or degraded		
	drologic control function.	V. 100	X
	the wetland publicly owned and used by a school or organization AND does		Λ
i	e wetland provide educational uses?		v
tile.		<u> </u>	X
	Optional Locally Significant Wetland criteria satisfied?		X

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Wetland Mapping Code: O Date(es) of Fieldwork:	7/10/2012	
Size (acres): 1.04 Wetland Types: PFO	//10/2012	
Exclusions: Wetland cannot be designated as locally significant if the answer to any	7]	
of the criteria is "Yes".	YES	NO
1 Is the wetland artificially created from upland and:	1	X
a. Created for the purpose of controlling, storing, or maintaining stormwater	7	X
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish		Χ
<ul> <li>d. Less than one acre in size and created unintentionally as the result of irrigation or construction</li> </ul>		X
e. Created for the purpose of wastewater treatment, cranberry production, farm o	r	
stock watering, settling of sediment, cooling industrial water, or a golf course	***************************************	
hazard		X
2 Is the wetland or portion of the wetland contaminated by hazardous		
substances, materials or wastes per the conditions of OR141-086-0350 1(b)	-	X
Exclusion criteria satisfied:	<u>:</u>	X
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets		
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
2 Is the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?		X
4 Is the wetland's hydrologic control function intact?		Χ
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?		X
6 Does the wetland contain rare plant communities?		X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?		X
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?	<u>'</u>	X.
Optional Local Significant Wetland Criteria: Local governments may identify a		
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or	111000	
degraded water quality function OR has a intact, or impacted or degraded		
hydrologic control function.		X
2 Is the wetland publicly owned and used by a school or organization AND does	needle.	
the wetland provide educational uses?		Х
Optional Locally Significant Wetland criteria satisfied?		X

Hermiston Local Wetland Inventory		
Wetland Mapping Code: Q Date(es) of Fieldwork:	7/10/2012	
Size (acres): 1.01 Wetland Types: PEM		
Exclusions: Wetland cannot be designated as locally significant if the answer to any		ş
of the criteria is "Yes".	YES	NO
1 Is the wetland artificially created from upland and:		y
a. Created for the purpose of controlling, storing, or maintaining stormwater		X
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and which do not contain food or game fish		X
d. Less than one acre in size and created unintentionally as the result of irrigation or construction		Х
e. Created for the purpose of wastewater treatment, cranberry production, farm or stock watering, settling of sediment, cooling industrial water, or a golf course hazard	3	Х
2 Is the wetland or portion of the wetland contaminated by hazardous		
substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
Exclusion criteria satisfied?		Χ
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets		
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
2 Is the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?	Sorvey and a second	X
4 Is the wetland's hydrologic control function intact?		X
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a water quality limited water body (303(d)list) AND is the <i>water quality</i>		
function intact, or impacted or degraded?	X	
6 Does the wetland contain rare plant communities?		X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?		X
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?	X	
Optional Local Significant Wetland Criteria: Local governments may identify a	<u></u>	
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded		
hydrologic control function.	Tentos Indian	X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?	Х	
Optional Locally Significant Wetland criteria satisfied?	X	
LOCALLY SIGNIFICANT WETLAND		

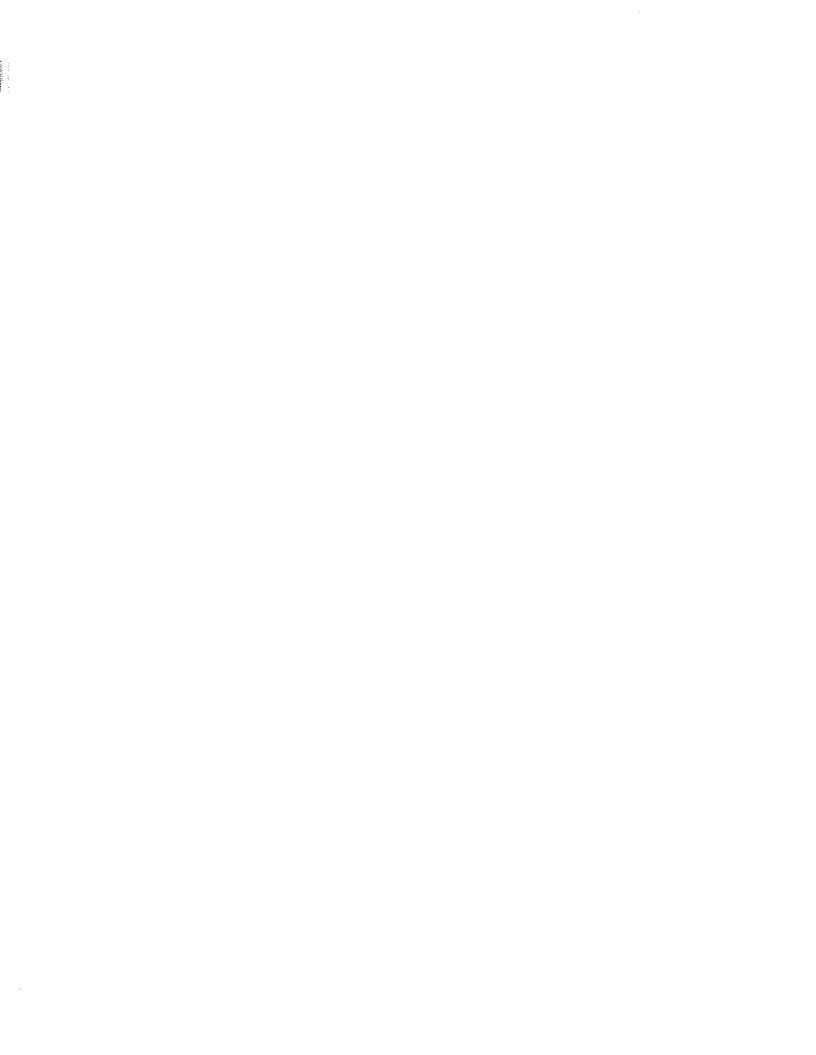
18,748,748	Hermiston Local Wetland Inventory		
	nd Mapping Code: R Date(es) of Fieldwork:	7/10/2012	
	acres): 0.7 Wetland Types: PFO	·	
Exclu	sions: Wetland cannot be designated as locally significant if the answer to any		
	of the criteria is "Yes".	YES	NO
	Is the wetland artificially created from upland and:		
a.	Created for the purpose of controlling, storing, or maintaining stormwater		X
	Active surface mining or active log ponds		X
	Ditches without a free and open connection to natural waters of the state and		
	which do not contain food or game fish	100	X
	Less than one acre in size and created unintentionally as the result of irrigation		
	or construction	-	X
	Created for the purpose of wastewater treatment, cranberry production, farm or	P.A.	
	stock watering, settling of sediment, cooling industrial water, or a golf course		
	hazard		X
2	s the wetland or portion of the wetland contaminated by hazardous		
	substances, materials or wastes per the conditions of OR141-086-0350 1(b)	1	X
	Exclusion criteria satisfied?		X
the second second second	tory Locally Significant Criteria: A wetland is locally significant if it meets		
	more of the criteria listed below (using the OFWAM criteria).	<b>.</b>	
5	Does the wetland provide diverse wildlife habitat?		X
1	s the wetland's fish habitat function intact?		X
§	s the wetland's water quality function intact?		X
	s the wetland's hydrologic control function intact?		X
	s the wetland less than 1/4 mile from a water body listed by the DEQ as a	- Topolis	
	vater quality limited water body (303(d)list) AND is the water quality		
	unction intact, or impacted or degraded?	X	
1	Does the wetland contain rare plant communities?	00 to 1	X
	s the wetland inhabited by any federally listed threatened or endangered, or		
	tate listed sensitive, threatened or endangered?		X
	Does the wetland have direct surface water connection to stream segment	Vidilities	
1	napped by ODFW as habitat for indigenous anadromous salmonids AND is		
t	he wetland's fish habitat function intact, or impacted or degraded?	X	
	Mandatory Locally Significant Wetland criteria satisfied?	X	
40 April 10 April 10 April 10 April 10 April 10 April 10 April 10 April 10 April 10 April 10 April 10 April 10	al Local Significant Wetland Criteria: Local governments may identify a		
,	as significant if "yes" answered to any of the criteria below.		
	Does the wetland represent a locally unique native plant community AND		
	rovide diverse wildlife habitat or habitat for some species OR has and intact,		
	r impacted or degraded fish habitat function OR has a intact, or impacted or		
	egraded water quality function OR has a intact, or impacted or degraded		
	ydrologic control function.		X
	the wetland publicly owned and used by a school or organization AND does		
tl	ne wetland provide educational uses?		X
madib.	Optional Locally Significant Wetland criteria satisfied?		X
	LOCALLY SIGNIFICANT WETLAND		

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5455	Hermiston Local Wetland Inventory		
	and Mapping Code: S Date(es) of Fieldwork:	7/10/2012	
-	(acres): 4.23 Wetland Types: PFO, PEN	1	
Excl	usions: Wetland cannot be designated as locally significant if the answer to any		
<u> </u>	of the criteria is "Yes".	YES	NO
1	Is the wetland artificially created from upland and:		q
	Created for the purpose of controlling, storing, or maintaining stormwater		X
	Active surface mining or active log ponds		X
	Ditches without a free and open connection to natural waters of the state and which do not contain food or game fish		X
d.	Less than one acre in size and created unintentionally as the result of irrigation or construction		X
e.	Created for the purpose of wastewater treatment, cranberry production, farm or stock watering, settling of sediment, cooling industrial water, or a golf course hazard		X
2	Is the wetland or portion of the wetland contaminated by hazardous		
	substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Mana	atory Locally Significant Criteria: A wetland is locally significant if it meets		
	more of the criteria listed below (using the OFWAM criteria).		
1	Does the wetland provide diverse wildlife habitat?		X
2	Is the wetland's fish habitat function intact?		X
3	ls the wetland's water quality function intact?		Χ
4	Is the wetland's hydrologic control function intact?		X
5	Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
	water quality limited water body (303(d)list) AND is the water quality		
	function intact, or impacted or degraded?	X	
	Does the wetland contain rare plant communities?		X
7	Is the wetland inhabited by any federally listed threatened or endangered, or		
	state listed sensitive, threatened or endangered?		X
8	Does the wetland have direct surface water connection to stream segment		
1	mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
	the wetland's fish habitat function intact, or impacted or degraded?	X	
	Mandatory Locally Significant Wetland criteria satisfied?	X	
Option	nal Local Significant Wetland Criteria: Local governments may identify a		
	d as significant if "yes" answered to any of the criteria below.		
	Does the wetland represent a locally unique native plant community AND		
ļ	provide diverse wildlife habitat or habitat for some species OR has and intact,	ļ	
ŀ	or impacted or degraded fish habitat function OR has a intact, or impacted or		
(	degraded water quality function OR has a intact, or impacted or degraded	1	
	hydrologic control function.		Χ
	s the wetland publicly owned and used by a school or organization AND does		
	he wetland provide educational uses?		X
	Optional Locally Significant Wetland criteria satisfied?		X
	LOCALLY SIGNIFICANT WETLAND		

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	Hermiston Local Wetland Inventory		
<del></del>	and Mapping Code: T Date(es) of Fieldwork:	7/10/2012	
	(acres): 1.73 Wetland Types: PFO, PEN	А	
Excl	usions: Wetland cannot be designated as locally significant if the answer to any		,
	of the criteria is "Yes".	YES	NO
1	Is the wetland artificially created from upland and:		y
	Created for the purpose of controlling, storing, or maintaining stormwater		X
	Active surface mining or active log ponds		X
c.	Ditches without a free and open connection to natural waters of the state and		
	which do not contain food or game fish		X
d.	Less than one acre in size and created unintentionally as the result of irrigation or construction		X
e.	Created for the purpose of wastewater treatment, cranberry production, farm or		
•	stock watering, settling of sediment, cooling industrial water, or a golf course		
	hazard		Х
2	Is the wetland or portion of the wetland contaminated by hazardous		
_	substances, materials or wastes per the conditions of OR141-086-0350 1(b)		Х
	Exclusion criteria satisfied?		X
Mand	atory Locally Significant Criteria: A wetland is locally significant if it meets		
	more of the criteria listed below (using the OFWAM criteria).		
1	Does the wetland provide diverse wildlife habitat?		X
2	Is the wetland's fish habitat function intact?		X
	Is the wetland's water quality function intact?		Х
	Is the wetland's hydrologic control function intact?		X
	Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
	water quality limited water body (303(d)list) AND is the water quality		
	function intact, or impacted or degraded?	X	
	Does the wetland contain rare plant communities?		X
	ls the wetland inhabited by any federally listed threatened or endangered, or		
	state listed sensitive, threatened or endangered?		X
8	Does the wetland have direct surface water connection to stream segment		
	mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
	the wetland's fish habitat function intact, or impacted or degraded?	X	
	Mandatory Locally Significant Wetland criteria satisfied?	X	***************************************
Option	al Local Significant Wetland Criteria: Local governments may identify a		
wetlan	d as significant if "yes" answered to any of the criteria below.		
1	Does the wetland represent a locally unique native plant community AND		
	provide diverse wildlife habitat or habitat for some species OR has and intact,		
	or impacted or degraded fish habitat function OR has a intact, or impacted or		
	degraded water quality function OR has a intact, or impacted or degraded		
i	hydrologic control function.		X
2 1	s the wetland publicly owned and used by a school or organization AND does		
t	he wetland provide educational uses?	and the second s	Χ
	Optional Locally Significant Wetland criteria satisfied?		X
	LOCALLY SIGNIFICANT WETLAND		



	nermision Local Welland inventory	***************************************	
1	and Mapping Code: U Date(es) of Fieldwork:	7/10/2012	
	acres): 1.11 Wetland Types: PEM		
Excli	usions: Wetland cannot be designated as locally significant if the answer to any		
	of the criteria is "Yes".	YES	NO
1	Is the wetland artificially created from upland and:		
	Created for the purpose of controlling, storing, or maintaining stormwater		X
	Active surface mining or active log ponds		X
c.	Ditches without a free and open connection to natural waters of the state and	**************************************	
	which do not contain food or game fish		X
	Less than one acre in size and created unintentionally as the result of irrigation or construction		Х
e.	Created for the purpose of wastewater treatment, cranberry production, farm or		
	stock watering, settling of sediment, cooling industrial water, or a golf course hazard	**************************************	Х
2	Is the wetland or portion of the wetland contaminated by hazardous		
	substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Mande	ntory Locally Significant Criteria: A wetland is locally significant if it meets	······································	***************************************
	more of the criteria listed below (using the OFWAM criteria).		
1	Does the wetland provide diverse wildlife habitat?		X
2	Is the wetland's fish habitat function intact?		X
	Is the wetland's water quality function intact?		Χ
	ls the wetland's hydrologic control function intact?		X
5	Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
	water quality limited water body (303(d)list) AND is the water quality	1901	
,	function intact, or impacted or degraded?	X	
	Does the wetland contain rare plant communities?		X
7	s the wetland inhabited by any federally listed threatened or endangered, or		
	state listed sensitive, threatened or endangered?		X
	Does the wetland have direct surface water connection to stream segment		
1	napped by ODFW as habitat for indigenous anadromous salmonids AND is		
t	he wetland's fish habitat function intact, or impacted or degraded?	X	
***************************************	Mandatory Locally Significant Wetland criteria satisfied?	X	
Option	al Local Significant Wetland Criteria: Local governments may identify a		
wetland	d as significant if "yes" answered to any of the criteria below.		
1 I	Does the wetland represent a locally unique native plant community AND	operation in the second	
ļ	provide diverse wildlife habitat or habitat for some species OR has and intact,		
0	r impacted or degraded fish habitat function OR has a intact, or impacted or		
a	legraded water quality function OR has a intact, or impacted or degraded		
h	ydrologic control function.		X
2 I	s the wetland publicly owned and used by a school or organization AND does		
	he wetland provide educational uses?		X
**************************************	Optional Locally Significant Wetland criteria satisfied?		X
	LOCALLY SIGNIFICANT WETLAND		

Wetland Mapping Code: W Date(es) of Fieldwork:	7/10/2012	
Size (acres): 0.89 Wetland Types: PFO		
Exclusions: Wetland cannot be designated as locally significant if the answer to any		
of the criteria is "Yes".	YES	NO
1 Is the wetland artificially created from upland and:		
a. Created for the purpose of controlling, storing, or maintaining stormwater		Χ
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and which do not contain food or game fish	X	
<ul> <li>d. Less than one acre in size and created unintentionally as the result of irrigation or construction</li> </ul>		X
c. Created for the purpose of wastewater treatment, cranberry production, farm or stock watering, settling of sediment, cooling industrial water, or a golf course hazard	7	X
Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes per the conditions of OR141-086-0350 1(b)		X
Exclusion criteria satisfied?	X	
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		Χ
2 Is the wetland's fish habitat function intact?		Χ
3 Is the wetland's water quality function intact?		Χ
4 Is the wetland's hydrologic control function intact?		X
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?		X
6 Does the wetland contain rare plant communities?	,	X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?		X
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?		X
Optional Local Significant Wetland Criteria: Local governments may identify a	L	
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded	, in the second	
hydrologic control function.	Ì	X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?	THE PARTY OF THE P	X
Optional Locally Significant Wetland criteria satisfied?		X

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	Hermiston Local Wetland Inventory		
	and Mapping Code: X Date(es) of Fieldwork:	7/10/2012	
	acres): 2.98 Wetland Types: PFO	<del></del>	
Excl	usions: Wetland cannot be designated as locally significant if the answer to an of the criteria is "Yes".	y YES	NO
1	Is the wetland artificially created from upland and:		
	Created for the purpose of controlling, storing, or maintaining stormwater		Χ
	Active surface mining or active log ponds		X
c.	Ditches without a free and open connection to natural waters of the state and which do not contain food or game fish		X
d.	Less than one acre in size and created unintentionally as the result of irrigation or construction	1)	X
e.	Created for the purpose of wastewater treatment, cranberry production, farm stock watering, settling of sediment, cooling industrial water, or a golf course hazard		X
2	Is the wetland or portion of the wetland contaminated by hazardous		
	substances, materials or wastes per the conditions of OR141-086-0350 1(b)	1	X
	Exclusion criteria satisfied	?	Χ
Mand	atory Locally Significant Criteria: A wetland is locally significant if it meets		
one or	more of the criteria listed below (using the OFWAM criteria).		
1	Does the wetland provide diverse wildlife habitat?		Χ
2	Is the wetland's fish habitat function intact?		Х
3	ls the wetland's water quality function intact?		Χ
4	Is the wetland's hydrologic control function intact?		X
	Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		· · · · · · · · · · · · · · · · · · · ·
	water quality limited water body (303(d)list) AND is the water quality	mayor to plants.	
i	function intact, or impacted or degraded?	X	
Ī	Does the wetland contain rare plant communities?		X
1.	Is the wetland inhabited by any federally listed threatened or endangered, or		
	state listed sensitive, threatened or endangered?		X
8	Does the wetland have direct surface water connection to stream segment		
	mapped by ODFW as habitat for indigenous anadromous salmonids AND is	V	
	the wetland's fish habitat function intact, or impacted or degraded?		X
	Mandatory Locally Significant Wetland criteria satisfied	? X	
Option	al Local Significant Wetland Criteria: Local governments may identify a		··········
vetlan	d as significant if "yes" answered to any of the criteria below.		
1	Does the wetland represent a locally unique native plant community AND		
I	provide diverse wildlife habitat or habitat for some species OR has and intact	,	
	or impacted or degraded fish habitat function OR has a intact, or impacted or		
	degraded water quality function OR has a intact, or impacted or degraded		
<i> </i>	nydrologic control function.		Χ
2	s the wetland publicly owned and used by a school or organization AND does	<b>;</b>	•••••••
	he wetland provide educational uses?	- Valoria de la companya de la compa	X
	Optional Locally Significant Wetland criteria satisfied	?	X
	LOCALLY SIGNIFICANT WETLAND		

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Wetland Mapping Code: Y Date(es) of Fieldwork:	7/10/2012	
Size (acres): 2.18 Wetland Types: PFO, OW	7/10/2012	
Exclusions: Wetland cannot be designated as locally significant if the answer to any		
of the criteria is "Yes".	YES	NO
Is the wetland artificially created from upland and:		
a. Created for the purpose of controlling, storing, or maintaining stormwater		X
b. Active surface mining or active log ponds		X
c. Ditches without a free and open connection to natural waters of the state and		
which do not contain food or game fish	X	
<ul> <li>d. Less than one acre in size and created unintentionally as the result of irrigation or construction</li> </ul>		X
e. Created for the purpose of wastewater treatment, cranberry production, farm or		
stock watering, settling of sediment, cooling industrial water, or a golf course		
hazard	X	
2 Is the wetland or portion of the wetland contaminated by hazardous		
substances, materials or wastes per the conditions of OR141-086-0350 1(b)	Ì	X
Exclusion criteria satisfied?	X	
Mandatory Locally Significant Criteria: A wetland is locally significant if it meets		
one or more of the criteria listed below (using the OFWAM criteria).		
1 Does the wetland provide diverse wildlife habitat?		X
2 Is the wetland's fish habitat function intact?		X
3 Is the wetland's water quality function intact?		X
4 Is the wetland's hydrologic control function intact?		X
5 Is the wetland less than 1/4 mile from a water body listed by the DEQ as a		
water quality limited water body (303(d)list) AND is the water quality		
function intact, or impacted or degraded?	X	
6 Does the wetland contain rare plant communities?		X
7 Is the wetland inhabited by any federally listed threatened or endangered, or		
state listed sensitive, threatened or endangered?		X
8 Does the wetland have direct surface water connection to stream segment		
mapped by ODFW as habitat for indigenous anadromous salmonids AND is		
the wetland's fish habitat function intact, or impacted or degraded?		X
Mandatory Locally Significant Wetland criteria satisfied?	X	
Optional Local Significant Wetland Criteria: Local governments may identify a		
wetland as significant if "yes" answered to any of the criteria below.		
1 Does the wetland represent a locally unique native plant community AND		
provide diverse wildlife habitat or habitat for some species OR has and intact,		
or impacted or degraded fish habitat function OR has a intact, or impacted or		
degraded water quality function OR has a intact, or impacted or degraded		
hydrologic control function.		X
2 Is the wetland publicly owned and used by a school or organization AND does		
the wetland provide educational uses?		X
Optional Locally Significant Wetland criteria satisfied?		X

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OR	S 141-086-0350		
Hermis	ton Local Wetland Inventory		
Wetland Mapping Code: Z	Date(es) of Fieldwork:	7/10/2012	
Size (acres): 2.01	Wetland Types: PEM, PFO	•	
Exclusions: Wetland cannot be designated	as locally significant if the answer to any		
of the criter		YES	NO
1 Is the wetland artificially created from			
a. Created for the purpose of controlling			Χ
b. Active surface mining or active log p			X
<ul> <li>c. Ditches without a free and open conf which do not contain food or game fi</li> </ul>			Х
d. Less than one acre in size and created	I unintentionally as the result of irrigation		
or construction	The second second		X
e. Created for the purpose of wastewate	r treatment, cranberry production, farm or		
stock watering, settling of sediment, of hazard	cooling industrial water, or a golf course		X
2 Is the wetland or portion of the wetla	nd contaminated by bazardous		Λ
· · · · · · · · · · · · · · · · · · ·	e conditions of OR141-086-0350 1(b)		X
	Exclusion criteria satisfied?		X
Mandatory Locally Significant Criteria : A		<u>-</u>	- / X
one or more of the criteria listed below (using			
1 Does the wetland provide diverse will			Χ
2 Is the wetland's fish habitat function i			X
Is the wetland's water quality function			X
4 Is the wetland's hydrologic control fu			X
5 Is the wetland less than 1/4 mile from			
water quality limited water body (303			
function intact, or impacted or degrae		X	
6 Does the wetland contain rare plant co			Χ
7 Is the wetland inhabited by any federa			
state listed sensitive, threatened or en-			X
8 Does the wetland have direct surface	water connection to stream segment		
mapped by ODFW as habitat for indig	genous anadromous salmonids AND is		
the wetland's fish habitat function into	ict, or impacted or degraded?	İ	X
Mandatory Locally	Significant Wetland criteria satisfied?	X	
Optional Local Significant Wetland Criteria			·
wetland as significant if "yes" answered to a			
1 Does the wetland represent a locally u	nique native plant community AND		
	oitat for some species OR has and intact,		
1	function OR has a intact, or impacted or		
degraded water quality function OR h	as a intact, or impacted or degraded		
hydrologic control function.			X
2 Is the wetland publicly owned and use			
the wetland provide educational uses		Х	
Optional Locally	Significant Wetland criteria satisfied?	X	7-15-1
LOCALLYS	IGNIFICANT WETLAND		

## APPENDIX G: STAFF QUALIFICATIONS

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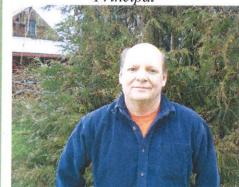
#### PROJECT TEAM

Schott & Associates staff is comprised of four well qualified and experienced individuals. All have been through wetland delineation training and are proficient in performing wetland delineations. Dr. Schott has 28 years of experience in agency negotiations/consultation.

The project manager was Dr. Martin Schott all project coordination, field work, contract negotiations, public presentations and quality control was performed by Dr. Schott. Data input, wetland assessments, report writing, quality control and editing were performed by all members of the team as needed.

Dr. Martin Schott, Ph.D., PWS is a wetland scientist/plant ecologist/botanist/range scientist with 28 plus years of project experience including: wetland delineation, mitigation, permitting, construction monitoring and mitigation monitoring; threatened and endangered species surveys, botanical surveys, range management and expert testimony. Dr. Schott has extensive experience in the field, data analysis, report writing and scientific presentations. He is familiar with NEPA, CEQA, SEPA and has worked on environmental check-lists and assessments, biological assessments and environmental impact statements. Projects include; electrical facilities, wind farms, general aviation airports. sewer lines, mining, highways, light rail, destination resorts, housing developments, shopping centers, water storage reservoirs, hydroelectric dams, range and wildlife management plants throughout Oregon, Washington, Idaho and much of the southwest. This experience includes three wetland inventories.

Martin, Schott, Ph.D., PWS Principal



Emerging Small Business Certification Number: #5130 \*\*\*

Society of Wetland Scientists-PWS Certified Certification Number: #122816

Juniper Tagliabue, Project Manager and field biologist joined Schott & Associates in 2004. She has a Bachelors degree from Lewis & Clark College in Portland, Oregon (1998). Juniper has certified training in wetland delineations, advanced soils and hydrology and plants of the Pacific Northwest. Juniper is proficient in coordinating all phases of project management. Since joining Schott & Associates she has worked on over 100 projects including: wetland determinations, wetland delineations, wetland fill permitting, significant natural resources (Washington County) sensitive lands (Clean Water Services) and significant natural resource overlay (SNRO) (City of Hillsboro). Past field experience includes amphibian and small mammal habitat assessment and species surveys on Mt. St. Helens National Volcanic Monument. In addition she has worked on invasive plant control projects.

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